YAMAHA

STAGE PIANO

CP4 STAGE

CP40 STAGE

Data List

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EN

Performance List

CP4 STAGE

Part 1: MAIN Part, Part 2: LAYER Part, Part 3: SPLIT Part, [ ]: Part turned off by default

No.		Perf. Type	Performance Name	Keyboard Mode	Split Point	Reverb Type	Chorus Type	Part No.	Voice Name	Rev. Send	Cho. Send
1	A01	User	CFX Grand	single	F#2	RichHall	2 Mod	1	CFX St	24	30
								2	Strings 3	40	0
								3	AcousticBa	0	0
2	A02	User	75Rd MW	single	F#2	RichHall	2 Mod	1	75Rd I	16	0
								2	Soft Pad 2	35	56
								3	FingerBa 2	0	0
3	A03	User	CF/A.Bass	split	F#2	RichHall	2 Mod	1	CF St	24	30
								2	Strings 3	40	0
								3	AcousticBa	28	0
4	A04	User	S6+Pad 1	layer	F#2	RichHall	2 Mod	1	S6 StFl	24	30
								2	Soft Pad 1	40	0
								3	AcousticBa	0	0
5	A05	User	Jazz Organ	single	C3	RichHall	2 Mod	1	JazzOrgan	24	30
								2	Light Pad	40	0
								3	Petit Rt	25	0
6	A06	User	Clavi	single	F#2	RichHall	2 Mod	1	Clavi 1	22	30
								2	71Rd I	40	0
								3	FingerBa 2	0	0
7	A07	User	BigSection	layer	F#2	RichHall	2 Mod	1	Horn+Str 2	32	30
								2	Horn+Str 1	40	0
								3	AcousticBa	28	0
8	A08	User	CFX+DX 1	layer	F#2	RichHall	2 Mod	1	CFX St	24	30
								2	DX 7II 3	25	0
								3	AcousticBa	0	0
9	A09	User	CF Grand	single	F#2	RichHall	2 Mod	1	CF St	24	30
								2	Strings 3	40	0
								3	AcousticBa	0	0
10	A10	User	77Wr Trem	single	F#2	RichHall	2 Mod	1	77Wr Trem	16	0
								2	Soft Pad 2	35	56
								3	FingerBa 2	0	0
11	A11	User	75Rd/E.Ba	split	F#2	RichHall	2 Mod	1	75Rd Phase	24	30
								2	Light Pad	40	0
								3	FlangeBa 2	25	0
12	A12	User	DX Combi 1	layer	F#2	RichHall	2 Mod	1	DX Legend1	24	0
								2	DX 7II 3	25	20
								3	FingerBa 2	0	0
13	A13	User	Vib/ABaCym	split	F#2	RichHall	2 Mod	1	HardVibes	35	30
								2	Strings 3	40	0
								3	A.Ba + Cym	28	0
14	A14	User	S6 Grand	single	F#2	RichHall	2 Mod	1	S6 St	24	30
								2	Strings 3	40	0
								3	AcousticBa	0	0
15	A15	User	CP Chorus	single	F#2	RichHall	2 Mod	1	CP80Chorus	16	0
								2	Soft Pad 2	35	56
								3	FingerBa 2	0	0
16	A16	User	Back Pad	layer	F#2	RichHall	2 Mod	1	Back Pad	40	30
								2	Soft Pad 1	40	0
								3	FingerBa 2	0	0
17	B01	User	CFX Comp	single	F#2	RichHall	2 Mod	1	CFX Comp	24	30
								2	Strings 3	40	0
								3	AcousticBa	0	0
18	B02	User	73Rd Phase	single	F#2	RichHall	2 Mod	1	73Rd Phase	16	0
								2	Soft Pad 2	35	56
								3	FingerBa 2	0	0
19	B03	User	CF/E.Bass	split	F#2	RichHall	2 Mod	1	CF St	24	30
								2	Strings 1	40	0
								3	FingerBa 1	25	0
20	B04	User	S6+Dyno	layer	F#2	RichHall	2 Mod	1	S6 St+	24	30
								2	Dyno	25	0
								3	AcousticBa	0	0
21	B05	User	OrgSplit 1	split	C3	RichHall	2 Mod	1	70sPercOrg	24	30
								2	Light Pad	40	0
								3	SoftOrgnRt	25	0
22	B06	User	Harpsichrd	single	F#2	RichHall	2 Mod	1	Harpsi 1	32	30
								2	Harpsi 2	32	0
								3	FingerBa 1	12	0
23	B07	User	RichBrass1	layer	F#2	RichRoom	2 Mod	1	BrassSect1	29	30
								2	MellowBr 1	29	30
								3	AcousticBa	28	0
24	B08	User	CFX+Str	layer	F#2	RichHall	2 Mod	1	CFX StFl	24	30
								2	Strings 3	40	0
								3	AcousticBa	0	0
25	B09	User	CF Mono	single	F#2	RichHall	2 Mod	1	CF Mn	24	30
								2	Strings 3	40	0
								3	AcousticBa	0	0
26	B10	User	69Wr	single	F#2	RichHall	2 Mod	1	69Wr	16	0
								2	Soft Pad 2	35	56
								3	FingerBa 2	0	0

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No.		Perf. Type	Performance Name	Keyboard Mode	Split Point	Reverb Type	Chorus Type	Part No.	Voice Name	Rev. Send	Cho. Send
27	B11	User	73Rd/Pad	split	C3	RichHall	2 Mod	1	73Rd I	54	0
								2	Strings 3	40	0
								3	VP Soft	60	64
28	B12	User	DX FTine	single	F#2	RichHall	2 Mod	1	DX FTine 2	24	0
								2	DX 7II 3	25	20
								3	FingerBa 2	0	0
29	B13	User	Marimba	single	F#2	RichHall	2 Mod	1	Marimba 2	32	0
								2	HardVibes	32	0
								3	CFX St	40	0
30	B14	User	S6 Mono	single	F#2	RichHall	2 Mod	1	S6 Mn	24	30
								2	Strings 3	40	0
								3	AcousticBa	0	0
31	B15	User	CP80	single	F#2	RichHall	2 Mod	1	CP80	16	0
								2	Soft Pad 2	35	56
								3	FingerBa 2	0	0
32	B16	User	Rich Pad 1	layer	F#2	RichHall	2 Mod	1	LFO Pad	40	30
								2	Big Pan	40	0
								3	FingerBa 2	0	0
33	C01	User	CFX Dark	single	F#2	RichHall	2 Mod	1	CFX Dark	24	30
								2	Strings 3	40	0
								3	AcousticBa	0	0
34	C02	User	DynoChorus	single	F#2	RichHall	2 Mod	1	DynoChrus1	16	0
								2	Soft Pad 2	35	56
								3	FingerBa 2	0	0
35	C03	User	CF+Str 1	layer	F#2	RichHall	2 Mod	1	CF StFl	24	30
								2	Strings 1	40	0
								3	AcousticBa	0	0
36	C04	User	S6/FrtlssB	split	F#2	RichHall	2 Mod	1	S6 St	24	30
								2	Strings 3	40	0
								3	Fretless 2	30	0
37	C05	User	Rock Organ	single	C3	RichHall	2 Mod	1	RockOrgan1	24	30
								2	Light Pad	40	0
								3	Petit Rt	25	0
38	C06	User	ClaviPhase	single	F#2	RichRoom	2 Mod	1	ClaviPhase	22	30
								2	71Rd I	40	0
								3	FingerBa 2	0	0
39	C07	User	Oct Str	layer	F#2	RichHall	2 Mod	1	Orchestra1	32	50
								2	SectionSt4	40	0
								3	AcousticBa	28	0
40	C08	User	CFX+Choir	layer	F#2	RichHall	2 Mod	1	CFX StFl	24	30
								2	Choir 2	40	0
								3	AcousticBa	0	0
41	C09	User	CF Comp	single	F#2	RichHall	2 Mod	1	CF Comp	24	30
								2	Strings 3	40	0
								3	AcousticBa	0	0
42	C10	User	77Wr Drive	single	F#2	RichHall	2 Mod	1	77Wr Drive	16	0
								2	Soft Pad 2	35	56
								3	FingerBa 2	0	0
43	C11	User	Dyno+Pad	layer	F#2	RichHall	2 Mod	1	Dyno	24	0
								2	NeoCrystal	45	127
								3	FingerBa 2	0	0
44	C12	User	DX Combi 2	layer	F#2	RichHall	2 Mod	1	DX Mellow2	24	0
								2	DX Crisp 2	25	30
								3	FingerBa 2	0	0
45	C13	User	ClnGt+Pad	layer	F#2	RichHall	2 Mod	1	Clean Gt 3	36	30
								2	Air Choir	36	0
								3	AcousticBa	28	0
46	C14	User	S6Ragtime1	single	F#2	RichHall	2 Mod	1	S6 Ragtime	24	30
								2	Strings 3	40	0
								3	AcousticBa	0	0
47	C15	User	CP Tremolo	single	F#2	RichHall	2 Mod	1	CP88 Trem	16	0
								2	Soft Pad 2	35	56
								3	FingerBa 2	0	0
48	C16	User	Rich Pad 2	layer	F#2	RichHall	2 Mod	1	Celestial	40	30
								2	Soft Pad 1	40	0
								3	FingerBa 2	0	0
49	D01	User	CFX Rock	single	F#2	RichHall	2 Mod	1	CFX Rock	24	30
								2	Strings 3	40	0
								3	AcousticBa	0	0
50	D02	User	71Rd	single	F#2	RichHall	2 Mod	1	71Rd I	16	0
								2	Soft Pad 2	35	56
								3	FingerBa 2	0	0
51	D03	User	CF+Pad	layer	F#2	RichHall	2 Mod	1	CF StFl	24	30
								2	Bell Pad 2	40	0
								3	AcousticBa	0	0
52	D04	User	S6+Pad 2	layer	F#2	RichHall	Ensemble	1	S6 StFl	24	0
								2	Atmosphere	40	80
								3	AcousticBa	0	0

CP4 STAGE

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No.		Perf. Type	Performance Name	Keyboard Mode	Split Point	Reverb Type	Chorus Type	Part No.	Voice Name	Rev. Send	Cho. Send
53	D05	User	OrgSplit 2	split	C3	RichHall	2 Mod	1	LightOrFst	24	30
								2	Light Pad	40	0
								3	SoftOrgnRt	25	0
54	D06	User	Clavi TWah	single	F#2	RichRoom	2 Mod	1	Clavi Wah	22	30
								2	71Rd I	40	0
								3	FingerBa 2	0	0
55	D07	User	Horn+Str	layer	F#2	RichHall	2 Mod	1	TremOrchst	40	0
								2	Horn+Str 1	40	30
								3	AcousticBa	28	0
56	D08	User	CFX+Dyno	layer	F#2	RichHall	2 Mod	1	CFX StFl	24	30
								2	DynoChrus1	25	0
								3	AcousticBa	0	0
57	D09	User	CF Rock	single	F#2	RichHall	2 Mod	1	CF Rock	24	30
								2	Strings 3	40	0
								3	AcousticBa	0	0
58	D10	User	77Wr	single	F#2	RichHall	2 Mod	1	77Wr	16	0
								2	Soft Pad 2	35	56
								3	FingerBa 2	0	0
59	D11	User	75Rd+Pad	layer	F#2	RichHall	2 Mod	1	75Rd Phase	24	0
								2	Soft Pad 2	35	56
								3	FingerBa 2	0	0
60	D12	User	DX 7II	single	F#2	RichHall	2 Mod	1	DX 7II 2	24	0
								2	DX Crisp 2	25	30
								3	FingerBa 2	0	0
61	D13	User	12Gt+Choir	layer	F#2	RichHall	2 Mod	1	12StrGt 1	50	30
								2	VoiceOohs2	64	0
								3	AcousticBa	28	0
62	D14	User	S6 Warm	single	F#2	RichHall	2 Mod	1	S6 Warm	24	30
								2	Strings 3	40	0
								3	AcousticBa	0	0
63	D15	User	CP Bright	single	F#2	RichHall	2 Mod	1	CP80HiBrit	16	0
								2	Soft Pad 2	35	56
								3	FingerBa 2	0	0
64	D16	User	SynSplit 1	split	C3	RichHall	2 Mod	1	Early Lead	50	30
								2	Light Pad	40	0
								3	SharpTeeth	40	0
65	E01	User	CFX Bright	single	F#2	RichHall	2 Mod	1	CFX St+	24	30
								2	Strings 3	40	0
								3	AcousticBa	0	0
66	E02	User	75Rd Phase	single	F#2	RichHall	2 Mod	1	75Rd Phase	16	0
								2	Soft Pad 2	35	56
								3	FingerBa 2	0	0
67	E03	User	CF+Str 2	layer	F#2	RichHall	2 Mod	1	CF StFl	24	30
								2	Slow Str 1	40	0
								3	AcousticBa	0	0
68	E04	User	S6+DX 1	layer	F#2	RichHall	2 Mod	1	S6 St+	24	30
								2	DX 7II 3	25	0
								3	AcousticBa	0	0
69	E05	User	Vx Org	single	F#2	RichHall	2 Mod	1	1967 Keys	45	30
								2	Light Pad	40	0
								3	73Rd I	45	0
70	E06	User	DualHarpsi	layer	F#2	RichHall	2 Mod	1	Harpsi 1	32	30
								2	Harpsi 2	32	0
								3	FingerBa 1	12	0
71	E07	User	SaxSection	layer	F#2	RichHall	2 Mod	1	Alto Sax	29	30
								2	Tenor Sax	29	0
								3	AcousticBa	28	0
72	E08	User	CFX+12StrG	layer	F#2	RichHall	2 Mod	1	CFX StFl	24	30
								2	12StrGt 1	35	0
								3	AcousticBa	0	0
73	E09	User	CF Dark	single	F#2	RichHall	2 Mod	1	CF Dark	24	30
								2	Strings 3	40	0
								3	AcousticBa	0	0
74	E10	User	69Wr Drive	single	F#2	RichHall	2 Mod	1	69Wr Drive	16	0
								2	Soft Pad 2	35	56
								3	FingerBa 2	0	0
75	E11	User	73Rd/SynBa	split	F#2	RichHall	2 Mod	1	73Rd I	0	30
								2	Light Pad	40	0
								3	Fundamentl	0	0
76	E12	User	DX+Pad	layer	F#2	RichHall	2 Mod	1	DX Mellow2	45	0
								2	Soft Pad 2	35	64
								3	FingerBa 2	0	0
77	E13	User	Bell+Pad	layer	F#2	RichHall	2 Mod	1	Glocken	40	30
								2	Bell Pad 2	40	0
								3	AcousticBa	28	0
78	E14	User	S6 Ambient	single	F#2	RichHall	2 Mod	1	S6 Ambient	43	30
								2	Strings 3	50	0
								3	AcousticBa	0	0

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No.		Perf. Type	Performance Name	Keyboard Mode	Split Point	Reverb Type	Chorus Type	Part No.	Voice Name	Rev. Send	Cho. Send
79	E15	User	CP Detuned	single	F#2	RichHall	Ensemble	1	CP80Detune	16	38
								2	Soft Pad 2	35	56
								3	FingerBa 2	0	0
80	E16	User	SynSplit 2	layer and split	F#2	RichHall	2 Mod	1	SynthBrass	20	30
								2	TechnoBrss	40	0
								3	SynthBass4	30	0
81	F01	User	CFX Mono	single	F#2	RichHall	2 Mod	1	CFX Mn	24	30
								2	Strings 3	40	0
								3	AcousticBa	0	0
82	F02	User	78Rd	single	F#2	RichHall	2 Mod	1	78Rd II	16	0
								2	Soft Pad 2	35	56
								3	FingerBa 2	0	0
83	F03	User	CF+DX 1	layer	F#2	RichHall	2 Mod	1	CF St	24	30
								2	DX 7II 3	25	0
								3	AcousticBa	0	0
84	F04	User	S6+Choir	layer	F#2	RichHall	2 Mod	1	S6 StFl	24	0
								2	Slow Vox	25	56
								3	AcousticBa	0	0
85	F05	User	Vx/RdBa	split	F#2	RichHall	2 Mod	1	60sOrgan 1	45	30
								2	Light Pad	40	0
								3	73Rd I	15	0
86	F06	User	Clavi Mt	single	F#2	RichRoom	2 Mod	1	Clavi Mt 1	22	30
								2	71Rd I	40	0
								3	FingerBa 2	0	0
87	F07	User	Rich Str	layer	F#2	RichHall	2 Mod	1	SectionSt1	32	50
								2	SectionSt2	32	50
								3	AcousticBa	28	0
88	F08	User	CFX+DX 2	layer	F#2	RichHall	2 Mod	1	CFX St	24	30
								2	DX Mellow3	25	0
								3	AcousticBa	0	0
89	F09	User	CF Tacky	layer	F#2	RichHall	2 Mod	1	CF Rock	24	30
								2	DX Legend2	40	0
								3	AcousticBa	0	0
90	F10	User	69Wr Trem	single	F#2	RichHall	2 Mod	1	69Wr Trem	16	0
								2	Soft Pad 2	35	56
								3	FingerBa 2	0	0
91	F11	User	71Rd/Org	split	C3	RichHall	2 Mod	1	71Rd Drive	32	0
								2	Strings 3	40	0
								3	Compact	60	76
92	F12	User	DX Combi 3	layer	F#2	RichHall	2 Mod	1	DX FTine 2	24	0
								2	DX Crisp 2	25	30
								3	FingerBa 2	0	0
93	F13	User	EthnSplit1	split	C3	RichRoom	2 Mod	1	Kalimba	45	30
								2	Strings 3	40	0
								3	Balimba	45	0
94	F14	User	S6 OldComp	single	F#2	RichHall	2 Mod	1	S6 St	24	30
								2	Strings 3	40	0
								3	AcousticBa	0	0
95	F15	User	CP Live	single	F#2	RichHall	2 Mod	1	CP80HiBrit	16	0
								2	Soft Pad 2	35	56
								3	FingerBa 2	0	0
96	F16	User	Rich Pad 3	layer	F#2	RichHall	2 Mod	1	Creation	40	30
								2	GlassPad	40	0
								3	FingerBa 2	0	0
97	G01	User	CFX Warm	single	F#2	RichHall	2 Mod	1	CFX Dark	24	30
								2	Strings 3	40	0
								3	AcousticBa	0	0
98	G02	User	75Rd Trem	single	F#2	RichHall	2 Mod	1	75Rd Trem	16	0
								2	Soft Pad 2	35	56
								3	FingerBa 2	0	0
99	G03	User	CF+DX 2	layer	F#2	RichHall	2 Mod	1	CF St	24	30
								2	DX Mellow3	25	0
								3	AcousticBa	0	0
100	G04	User	S6+Bell	layer	F#2	RichHall	2 Mod	1	S6 St+	24	0
								2	DigiBell 3	25	32
								3	AcousticBa	0	0
101	G05	User	Cathedral	layer	C3	RichHall	2 Mod	1	ChurchOrg1	64	30
								2	PipeOrganT	64	0
								3	PipeOrgan2	64	0
102	G06	User	ClaviPWFC2	single	F#2	RichRoom	2 Mod	1	Clavi PWah	22	30
								2	71Rd I	40	0
								3	FingerBa 2	0	0
103	G07	User	RichBrass2	layer	F#2	RichHall	2 Mod	1	SaxSection	29	30
								2	BrassSect2	29	0
								3	AcousticBa	28	0
104	G08	User	CFX+Pad 1	layer	F#2	RichHall	Ensemble	1	CFX StFl	24	0
								2	Atmosphere	40	80
								3	AcousticBa	0	0

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105	G09	User	RadioCF MW	single	F#2	RichHall	T-CrsDly	1	CF StFl	43	17
								2	Strings 3	50	0
								3	AcousticBa	0	0
106	G10	User	77WrPsyche	single	F#2	RichHall	2 Mod	1	77Wr	16	0
								2	Soft Pad 2	35	56
								3	FingerBa 2	0	0
107	G11	User	Dyno+DX	layer	F#2	RichHall	2 Mod	1	Dyno	24	0
								2	DX Crisp 3	45	127
								3	FingerBa 2	0	0
108	G12	User	DX+SynBrss	layer	F#2	RichHall	2 Mod	1	DX Legend3	35	0
								2	SynthBrass	64	64
								3	FingerBa 2	0	0
109	G13	User	EthnSplit2	layer and split	C3	RichHall	2 Mod	1	Dulcimer	60	30
								2	Kanoon	60	0
								3	Glocken	50	0
110	G14	User	S6Ragtime2	layer	F#2	RichRoom	2 Mod	1	S6 St+	24	30
								2	CF Mn-	25	0
								3	AcousticBa	0	0
111	G15	User	CP+DX	layer	F#2	RichHall	2 Mod	1	CP80HiBrit	24	30
								2	DX 7II 3	25	0
								3	FingerBa 2	0	0
112	G16	User	RichPad 4	layer	F#2	RichRoom	2 Mod	1	Bell Pad 2	29	30
								2	Str Pad	29	0
								3	FingerBa 2	0	0
113	H01	User	CFX Tacky	layer	F#2	RichHall	2 Mod	1	CFX St	24	30
								2	CF Mn	25	0
								3	AcousticBa	0	0
114	H02	User	73Rd	single	F#2	RichHall	2 Mod	1	73Rd I	16	0
								2	Soft Pad 2	35	56
								3	FingerBa 2	0	0
115	H03	User	CF+Dyno	layer	F#2	RichHall	2 Mod	1	CF St	24	30
								2	DynoChrus2	25	0
								3	AcousticBa	0	0
116	H04	User	S6+DX 2	layer	F#2	RichHall	2 Mod	1	S6 St+	24	30
								2	DX Mellow3	25	0
								3	AcousticBa	0	0
117	H05	User	Chapel	split	C3	RichRoom	2 Mod	1	PipeOrganT	24	30
								2	Light Pad	40	0
								3	PipeOrgan2	25	0
118	H06	User	Clavi St	single	F#2	RichRoom	2 Mod	1	Clavi St	22	30
								2	71Rd I	40	0
								3	FingerBa 2	0	0
119	H07	User	Tape Combi	split	C3	RitchPlt	2 Mod	1	Flute 1	18	14
								2	Choir 2	0	0
								3	Tron Str	23	0
120	H08	User	CFX+Pad 2	layer	F#2	RichHall	Ensemble	1	CFX StFl	24	30
								2	Digi Stuff	40	30
								3	AcousticBa	0	0
121	H09	User	CF Elktrnc	single	F#2	RichHall	T-CrsDly	1	CF St	58	66
								2	Popcorn	44	44
								3	Mind Bell	0	0
122	H10	User	Dual Wr	layer	F#2	RichRoom	2 Mod	1	69Wr Trem	12	64
								2	77Wr Trem	12	64
								3	FingerBa 1	12	0
123	H11	User	78Rd+DX	layer	F#2	RichHall	2 Mod	1	78Rd Trem	24	0
								2	DX Woody 1	45	127
								3	FingerBa 2	0	0
124	H12	User	DX+Bell	layer	F#2	RichHall	2 Mod	1	DX FTine 3	35	0
								2	Vib St	64	64
								3	FingerBa 2	0	0
125	H13	User	SteelDrums	layer	F#2	RichHall	2 Mod	1	SteelDrums	50	30
								2	SteelDrums	50	30
								3	Xylophone	50	0
126	H14	User	S6 Radio	single	F#2	RichHall	2 Mod	1	S6 Mn	24	30
								2	Strings 3	40	0
								3	AcousticBa	0	0
127	H15	User	CP+Pad	layer	F#2	RichHall	2 Mod	1	CP80Chorus	45	0
								2	GlassPad	35	56
								3	FingerBa 2	0	0
128	H16	User	SynSplit 3	split	C3	RichHall	2 Mod	1	Tiny Lead	20	30
								2	Light Pad	40	0
								3	Air Choir	50	0

CP40 STAGE

Part 1: MAIN Part, Part 2: SPLIT/LAYER Part, [ ] : Part turned off by default

No.		Perf. Type	Performance Name	Keyboard Mode	Split Point	Reverb Type	Chorus Type	Part No.	Voice Name	Rev. Send	Cho. Send
1	A01	User	CF Grand	single	C3	RichHall	2 Mod	1	CF St	24	30
								2	Strings 3	40	0
2	A02	User	75Rd MW	single	C3	RichHall	2 Mod	1	75Rd I	16	0
								2	Soft Pad 2	35	56
3	A03	User	CF/A.Bass	split	F#2	RichHall	2 Mod	1	CF St	24	30
								2	AcousticBa	28	0
4	A04	User	Jazz Organ	single	C3	RichHall	2 Mod	1	JazzOrgan	24	30
								2	Petit Rt	25	0
5	A05	User	DX Combi 1	layer	C3	RichHall	2 Mod	1	DX Legend1	24	0
								2	DX 7II 3	25	20
6	A06	User	75Rd/E.Ba	split	F#2	RichHall	2 Mod	1	75Rd Phase	24	30
								2	FlangeBa 2	25	0
7	A07	User	DX FTine	single	C3	RichHall	2 Mod	1	DX FTine 2	24	0
								2	DX 7II 3	25	20
8	A08	User	BigSection	layer	C3	RichHall	2 Mod	1	Horn+Str	32	30
								2	Horn+Str	40	0
9	B01	User	CF Mono	single	C3	RichHall	2 Mod	1	CF Mn	24	30
								2	Strings 3	40	0
10	B02	User	75Rd Phase	single	C3	RichHall	2 Mod	1	75Rd Phase	16	0
								2	Soft Pad 2	35	56
11	B03	User	CF/E.Bass	split	F#2	RichHall	2 Mod	1	CF St	24	30
								2	Finger Ba	25	0
12	B04	User	OrgSplit 1	split	C3	RichHall	2 Mod	1	70sPercOrg	24	30
								2	SoftOrgnRt	25	0
13	B05	User	DX Combi 2	layer	C3	RichHall	2 Mod	1	DX Mellow2	24	0
								2	DX Crisp 2	25	30
14	B06	User	75Rd/Pad	split	C3	RichHall	2 Mod	1	75Rd I	54	0
								2	VP Soft	60	64
15	B07	User	DX 7II	single	C3	RichHall	2 Mod	1	DX 7II 2	24	0
								2	DX Crisp 2	25	20
16	B08	User	Back Pad	layer	C3	RichHall	2 Mod	1	Back Pad	40	30
								2	Soft Pad 1	40	0
17	C01	User	CF Comp	single	C3	RichHall	2 Mod	1	CF Comp	24	30
								2	Strings 3	40	0
18	C02	User	75Rd Trem	single	C3	RichHall	2 Mod	1	75Rd Trem	16	0
								2	Soft Pad 2	35	56
19	C03	User	CF+Str	layer	C3	RichHall	2 Mod	1	CF StFl	24	30
								2	Strings 1	40	0
20	C04	User	OrgSplit 2	split	C3	RichHall	2 Mod	1	JazzOrgan	24	30
								2	SoftOrgnRt	25	0
21	C05	User	DX+Pad 1	layer	C3	RichHall	2 Mod	1	DX Mellow2	45	0
								2	Soft Pad 2	35	64
22	C06	User	75Rd+Pad 1	layer	C3	RichHall	2 Mod	1	75Rd I	24	0
								2	Glass Harp	45	127
23	C07	User	DX Woody	single	C3	RichHall	2 Mod	1	DX Woody 3	24	0
								2	DX Mellow3	25	30
24	C08	User	OctStr	layer	C3	RichHall	2 Mod	1	Orchestra1	32	50
								2	SectionSt2	40	0
25	D01	User	CF Dark	single	F#2	RichHall	2 Mod	1	CF Dark	24	30
								2	Strings 3	40	0
26	D02	User	78Rd	single	C3	RichHall	2 Mod	1	75Rd I	16	0
								2	Soft Pad 2	35	56
27	D03	User	CF+Pad	layer	C3	RichHall	2 Mod	1	CF StFl	24	30
								2	Bell Pad	40	0
28	D04	User	Vx/RdBa	split	F#2	RichHall	2 Mod	1	60sOrgan 1	45	30
								2	75Rd I	15	0
29	D05	User	DX Combi 3	layer	C3	RichHall	2 Mod	1	DX FTine 2	24	0
								2	DX Crisp 2	25	30
30	D06	User	75Rd+Pad 2	layer	C3	RichHall	2 Mod	1	75Rd Phase	24	0
								2	Soft Pad 2	35	56
31	D07	User	CP Chorus	single	C3	RichHall	2 Mod	1	CP80Chorus	16	0
								2	Soft Pad 2	35	56
32	D08	User	Rich Pad 1	layer	C3	RichHall	2 Mod	1	Pan Pad	40	30
								2	Big Pan	40	0
33	E01	User	CF Rock	single	C3	RichHall	2 Mod	1	CF Rock	24	30
								2	Strings 3	40	0
34	E02	User	77Wr Trem	single	C3	RichHall	2 Mod	1	77Wr Trem	16	0
								2	Soft Pad 2	35	56
35	E03	User	CF+Choir	layer	C3	RichHall	2 Mod	1	CF StFl	24	30
								2	Choir 2	40	0
36	E04	User	Cathedral	layer	C3	RichHall	2 Mod	1	Church Org	64	30
								2	PipeOrgan2	64	0
37	E05	User	DX+SynBrss	layer	C3	RichHall	2 Mod	1	DX Legend3	35	0
								2	SynthBrass	64	64
38	E06	User	75Rd/SynBa	split	F#2	RichHall	2 Mod	1	75Rd I	0	30
								2	Fundamentl	0	0
39	E07	User	CP80	single	C3	RichHall	2 Mod	1	CP80	16	0
								2	Soft Pad 2	35	56

Part 1: MAIN Part, Part 2: SPLIT/LAYER Part, [ ] : Part turned off by default

No.		Perf. Type	Performance Name	Keyboard Mode	Split Point	Reverb Type	Chorus Type	Part No.	Voice Name	Rev. Send	Cho. Send
40	E08	User	Rich Pad 2	layer	C3	RichHall	2 Mod	1	Celestial	40	30
								2	Soft Pad 1	40	0
41	F01	User	CF Tacky	layer	C3	RichHall	2 Mod	1	CF Rock	24	30
								2	DX Legend2	40	0
42	F02	User	69Wr	single	C3	RichHall	2 Mod	1	69Wr	16	0
								2	Soft Pad 2	35	56
43	F03	User	CF+DX	layer	C3	RichHall	2 Mod	1	CF St	24	30
								2	DX 7II 3	25	0
44	F04	User	Clavi	single	C3	RichRoom	2 Mod	1	Clavi 1	22	30
								2	75Rd I	40	0
45	F05	User	CP+Pad 1	layer	C3	RichHall	2 Mod	1	CP80Chorus	24	0
								2	NewAgePad	35	56
46	F06	User	75Rd/Org	split	C3	RichHall	2 Mod	1	75Rd I	32	0
								2	Compact	60	76
47	F07	User	CP Tremolo	single	C3	RichHall	2 Mod	1	CP88Trem	16	0
								2	Soft Pad 2	35	56
48	F08	User	SynSplit 1	split	C3	RichHall	2 Mod	1	Crying	50	30
								2	SweepPad 2	40	0
49	G01	User	RadioCF MW	single	C3	RichHall	T-CrsDly	1	CF StFl	43	17
								2	Strings 3	50	0
50	G02	User	77Wr	single	C3	RichHall	2 Mod	1	77Wr	16	0
								2	Soft Pad 2	35	56
51	G03	User	CF+75Rd	layer	C3	RichHall	2 Mod	1	CF StFl	24	30
								2	75Rd I	25	0
52	G04	User	DualHarpsi	layer	C3	RichHall	2 Mod	1	Harpsi 1	32	30
								2	Harpsi 2	32	0
53	G05	User	CP+DX	layer	C3	RichHall	2 Mod	1	CP80HiBrit	24	30
								2	DX 7II 3	25	0
54	G06	User	75Rd+DX 1	layer	C3	RichHall	2 Mod	1	75Rd I	24	0
								2	DX Crisp 3	45	127
55	G07	User	CP Bright	single	C3	RichHall	2 Mod	1	CP80HiBrit	16	0
								2	Soft Pad 2	35	56
56	G08	User	SynSplit 2	split	F#2	RichHall	2 Mod	1	DancyHook	40	30
								2	SynthBass4	30	0
57	H01	User	CF Ragtime	layer	C3	RichRoom	2 Mod	1	CF St+	24	30
								2	CF Mn-	25	0
58	H02	User	Dual Wr	layer	C3	RichRoom	2 Mod	1	69Wr Trem	12	64
								2	77Wr Trem	12	64
59	H03	User	CF+Bell	layer	C3	RichHall	2 Mod	1	CF St+	24	0
								2	DigiBell 2	25	32
60	H04	User	ClaviPhase	single	C3	RichRoom	2 Mod	1	ClaviPhase	22	30
								2	75Rd I	40	0
61	H05	User	CP+Pad 2	layer	C3	RichHall	2 Mod	1	CP80Chorus	45	0
								2	GlassPad	35	56
62	H06	User	75Rd+DX 2	layer	C3	RichHall	2 Mod	1	75Rd Trem	24	0
								2	DX Woody 1	45	127
63	H07	User	CP Live	single	C3	RichHall	2 Mod	1	CP80HiBrit	16	0
								2	Soft Pad 2	35	56
64	H08	User	Tape Combi	split	C3	RichRoom	2 Mod	1	Flute	18	14
								2	Tron Str	23	0
65	I01	User	CF Grand	single	C3	RichHall	2 Mod	1	CF St	24	30
								2	Strings 3	40	0
66	I02	User	75Rd MW	single	C3	RichHall	2 Mod	1	75Rd I	16	0
								2	Soft Pad 2	35	56
67	I03	User	CF/A.Bass	split	F#2	RichHall	2 Mod	1	CF St	24	30
								2	AcousticBa	28	0
68	I04	User	Jazz Organ	single	C3	RichHall	2 Mod	1	JazzOrgan	24	30
								2	Petit Rt	25	0
69	I05	User	DX Combi 1	layer	C3	RichHall	2 Mod	1	DX Legend1	24	0
								2	DX 7II 3	25	20
70	I06	User	75Rd/E.Ba	split	F#2	RichHall	2 Mod	1	75Rd Phase	24	30
								2	FlangeBa 2	25	0
71	I07	User	DX FTine	single	C3	RichHall	2 Mod	1	DX FTine 2	24	0
								2	DX 7II 3	25	20
72	I08	User	BigSection	layer	C3	RichHall	2 Mod	1	Horn+Str	32	30
								2	Horn+Str	40	0
73	J01	User	CF Mono	single	C3	RichHall	2 Mod	1	CF Mn	24	30
								2	Strings 3	40	0
74	J02	User	75Rd Phase	single	C3	RichHall	2 Mod	1	75Rd Phase	16	0
								2	Soft Pad 2	35	56
75	J03	User	CF/E.Bass	split	F#2	RichHall	2 Mod	1	CF St	24	30
								2	Finger Ba	25	0
76	J04	User	OrgSplit 1	split	C3	RichHall	2 Mod	1	70sPercOrg	24	30
								2	SoftOrgnRt	25	0
77	J05	User	DX Combi 2	layer	C3	RichHall	2 Mod	1	DX Mellow2	24	0
								2	DX Crisp 2	25	30
78	J06	User	75Rd/Pad	split	C3	RichHall	2 Mod	1	75Rd I	54	0
								2	VP Soft	60	64

CP40 STAGE

Part 1: MAIN Part, Part 2: SPLIT/LAYER Part, [ ] : Part turned off by default

No.		Perf. Type	Performance Name	Keyboard Mode	Split Point	Reverb Type	Chorus Type	Part No.	Voice Name	Rev. Send	Cho. Send
79	J07	User	DX 7II	single	C3	RichHall	2 Mod	1	DX 7II 2	24	0
								2	DX Crisp 2	25	20
80	J08	User	Back Pad	layer	C3	RichHall	2 Mod	1	Back Pad	40	30
								2	Soft Pad 1	40	0
81	K01	User	CF Comp	single	C3	RichHall	2 Mod	1	CF Comp	24	30
								2	Strings 3	40	0
82	K02	User	75Rd Trem	single	C3	RichHall	2 Mod	1	75Rd Trem	16	0
								2	Soft Pad 2	35	56
83	K03	User	CF+Str	layer	C3	RichHall	2 Mod	1	CF StFl	24	30
								2	Strings 1	40	0
84	K04	User	OrgSplit 2	split	C3	RichHall	2 Mod	1	JazzOrgan	24	30
								2	SoftOrgnRt	25	0
85	K05	User	DX+Pad 1	layer	C3	RichHall	2 Mod	1	DX Mellow2	45	0
								2	Soft Pad 2	35	64
86	K06	User	75Rd+Pad 1	layer	C3	RichHall	2 Mod	1	75Rd I	24	0
								2	Glass Harp	45	127
87	K07	User	DX Woody	single	C3	RichHall	2 Mod	1	DX Woody 3	24	0
								2	DX Mellow3	25	30
88	K08	User	OctStr	layer	C3	RichHall	2 Mod	1	Orchestra1	32	50
								2	SectionSt2	40	0
89	L01	User	CF Dark	single	F#2	RichHall	2 Mod	1	CF Dark	24	30
								2	Strings 3	40	0
90	L02	User	78Rd	single	C3	RichHall	2 Mod	1	75Rd I	16	0
								2	Soft Pad 2	35	56
91	L03	User	CF+Pad	layer	C3	RichHall	2 Mod	1	CF StFl	24	30
								2	Bell Pad	40	0
92	L04	User	Vx/RdBa	split	F#2	RichHall	2 Mod	1	60sOrgan 1	45	30
								2	75Rd I	15	0
93	L05	User	DX Combi 3	layer	C3	RichHall	2 Mod	1	DX FTine 2	24	0
								2	DX Crisp 2	25	30
94	L06	User	75Rd+Pad 2	layer	C3	RichHall	2 Mod	1	75Rd Phase	24	0
								2	Soft Pad 2	35	56
95	L07	User	CP Chorus	single	C3	RichHall	2 Mod	1	CP80Chorus	16	0
								2	Soft Pad 2	35	56
96	L08	User	Rich Pad 1	layer	C3	RichHall	2 Mod	1	Pan Pad	40	30
								2	Big Pan	40	0
97	M01	User	CF Rock	single	C3	RichHall	2 Mod	1	CF Rock	24	30
								2	Strings 3	40	0
98	M02	User	77Wr Trem	single	C3	RichHall	2 Mod	1	77Wr Trem	16	0
								2	Soft Pad 2	35	56
99	M03	User	CF+Choir	layer	C3	RichHall	2 Mod	1	CF StFl	24	30
								2	Choir 2	40	0
100	M04	User	Cathedral	layer	C3	RichHall	2 Mod	1	Church Org	64	30
								2	PipeOrgan2	64	0
101	M05	User	DX+SynBrss	layer	C3	RichHall	2 Mod	1	DX Legend3	35	0
								2	SynthBrass	64	64
102	M06	User	75Rd/SynBa	split	F#2	RichHall	2 Mod	1	75Rd I	0	30
								2	Fundamentl	0	0
103	M07	User	CP80	single	C3	RichHall	2 Mod	1	CP80	16	0
								2	Soft Pad 2	35	56
104	M08	User	Rich Pad 2	layer	C3	RichHall	2 Mod	1	Celestial	40	30
								2	Soft Pad 1	40	0
105	N01	User	CF Tacky	layer	C3	RichHall	2 Mod	1	CF Rock	24	30
								2	DX Legend2	40	0
106	N02	User	69Wr	single	C3	RichHall	2 Mod	1	69Wr	16	0
								2	Soft Pad 2	35	56
107	N03	User	CF+DX	layer	C3	RichHall	2 Mod	1	CF St	24	30
								2	DX 7II 3	25	0
108	N04	User	Clavi	single	C3	RichRoom	2 Mod	1	Clavi 1	22	30
								2	75Rd I	40	0
109	N05	User	CP+Pad 1	layer	C3	RichHall	2 Mod	1	CP80Chorus	24	0
								2	NewAgePad	35	56
110	N06	User	75Rd/Org	split	C3	RichHall	2 Mod	1	75Rd I	32	0
								2	Compact	60	76
111	N07	User	CP Tremolo	single	C3	RichHall	2 Mod	1	CP88Trem	16	0
								2	Soft Pad 2	35	56
112	N08	User	SynSplit 1	split	C3	RichHall	2 Mod	1	Crying	50	30
								2	SweepPad 2	40	0
113	O01	User	RadioCF MW	single	C3	RichHall	T-CrsDly	1	CF StFl	43	17
								2	Strings 3	50	0
114	O02	User	77Wr	single	C3	RichHall	2 Mod	1	77Wr	16	0
								2	Soft Pad 2	35	56
115	O03	User	CF+75Rd	layer	C3	RichHall	2 Mod	1	CF StFl	24	30
								2	75Rd I	25	0
116	O04	User	DualHarpsi	layer	C3	RichHall	2 Mod	1	Harpsi 1	32	30
								2	Harpsi 2	32	0
117	O05	User	CP+DX	layer	C3	RichHall	2 Mod	1	CP80HiBrit	24	30
								2	DX 7II 3	25	0

Part 1: MAIN Part, Part 2: SPLIT/LAYER Part, [ ] : Part turned off by default

No.		Perf. Type	Performance Name	Keyboard Mode	Split Point	Reverb Type	Chorus Type	Part No.	Voice Name	Rev. Send	Cho. Send
118	O06	User	75Rd+DX 1	layer	C3	RichHall	2 Mod	1	75Rd I	24	0
								2	DX Crisp 3	45	127
119	O07	User	CP Bright	single	C3	RichHall	2 Mod	1	CP80HiBrit	16	0
								2	Soft Pad 2	35	56
120	O08	User	SynSplit 2	split	F#2	RichHall	2 Mod	1	DancyHook	40	30
								2	SynthBass4	30	0
121	P01	User	CF Ragtime	layer	C3	RichRoom	2 Mod	1	CF St+	24	30
								2	CF Mn-	25	0
122	P02	User	Dual Wr	layer	C3	RichRoom	2 Mod	1	69Wr Trem	12	64
								2	77Wr Trem	12	64
123	P03	User	CF+Bell	layer	C3	RichHall	2 Mod	1	CF St+	24	0
								2	DigiBell 2	25	32
124	P04	User	ClaviPhase	single	C3	RichRoom	2 Mod	1	ClaviPhase	22	30
								2	75Rd I	40	0
125	P05	User	CP+Pad 2	layer	C3	RichHall	2 Mod	1	CP80Chorus	45	0
								2	GlassPad	35	56
126	P06	User	75Rd+DX 2	layer	C3	RichHall	2 Mod	1	75Rd Trem	24	0
								2	DX Woody 1	45	127
127	P07	User	CP Live	single	C3	RichHall	2 Mod	1	CP80HiBrit	16	0
								2	Soft Pad 2	35	56
128	P08	User	Tape Combi	split	C3	RichRoom	2 Mod	1	Flute	18	14
								2	Tron Str	23	0

Performances 65 to 128 are identical copies of Performances 1 to 64.

Voice List

CP4 STAGE

Category	No.	Voice Name	Bank Select MSB	Bank Select LSB	Program Change (1 origin)
A.PIANO1	001	CFX St	63	0	001
	002	CFX St+	63	0	002
	003	CFX St-	63	0	003
	004	CFX Mn	63	0	004
	005	CFX Mn+	63	0	005
	006	CFX Mn-	63	0	006
	007	CFX Rock	63	0	007
	008	CFX Dark	63	0	008
	009	CFX Comp	63	0	009
	010	CFX StFl	63	0	010
	011	CFX StFl+	63	0	011
	012	CFX StFl-	63	0	012
	013	CFX MnFl	63	0	013
	014	CFX MnFl+	63	0	014
	015	CFX MnFl-	63	0	015
A.PIANO2	001	CF St	63	1	001
	002	CF St+	63	1	002
	003	CF St-	63	1	003
	004	CF Mn	63	1	004
	005	CF Mn+	63	1	005
	006	CF Mn-	63	1	006
	007	CF Rock	63	1	007
	008	CF Dark	63	1	008
	009	CF Comp	63	1	009
	010	CF StFl	63	1	010
	011	CF StFl+	63	1	011
	012	CF StFl-	63	1	012
	013	CF MnFl	63	1	013
	014	CF MnFl+	63	1	014
	015	CF MnFl-	63	1	015
A.PIANO3	001	S6 St	63	2	001
	002	S6 St+	63	2	002
	003	S6 St-	63	2	003
	004	S6 Mn	63	2	004
	005	S6 Mn+	63	2	005
	006	S6 Mn-	63	2	006
	007	S6 Ragtime	63	2	007
	008	S6 Warm	63	2	008
	009	S6 Ambient	63	2	009
	010	S6 StFl	63	2	010
	011	S6 StFl+	63	2	011
	012	S6 StFl-	63	2	012
	013	S6 MnFl	63	2	013
	014	S6 MnFl+	63	2	014
	015	S6 MnFl-	63	2	015
E.PIANO1	001	71Rd I	63	3	001
	002	73Rd I	63	3	002
	003	75Rd I	63	3	003
	004	78Rd II	63	3	004
	005	Dyno	63	3	005
	006	71Rd Trem	63	3	006
	007	71Rd Drive	63	3	007
	008	73Rd Trem	63	3	008
	009	73Rd Phase	63	3	009
	010	75Rd Trem	63	3	010
	011	75Rd Phase	63	3	011
	012	78Rd Trem	63	3	012
	013	78Rd Chrus	63	3	013
	014	DynoChrus1	63	3	014
	015	DynoChrus2	63	3	015
E.PIANO2	001	69Wr	63	4	001
	002	77Wr	63	4	002
	003	69Wr Trem	63	4	003
	004	69Wr Drive	63	4	004
	005	77Wr Trem	63	4	005
	006	77Wr Drive	63	4	006
E.PIANO3	001	CP80	63	5	001
	002	CP88	63	5	002
	003	CP80 Fl	63	5	003
	004	CP88 Fl	63	5	004
	005	CP80HiBrit	63	5	005
	006	CP80Detune	63	5	006
	007	CP80Chorus	63	5	007
	008	CP88 Trem	63	5	008

Category	No.	Voice Name	Bank Select MSB	Bank Select LSB	Program Change (1 origin)
E.PIANO3	009	DX Legend1	63	5	009
	010	DX Woody 1	63	5	010
	011	DX FTine 1	63	5	011
	012	DX 7II 1	63	5	012
	013	DX Mellow1	63	5	013
	014	DX Crisp 1	63	5	014
	015	DX Legend2	63	5	015
	016	DX Legend3	63	5	016
	017	DX Woody 2	63	5	017
	018	DX Woody 3	63	5	018
	019	DX FTine 2	63	5	019
	020	DX FTine 3	63	5	020
	021	DX 7II 2	63	5	021
	022	DX 7II 3	63	5	022
	023	DX Mellow2	63	5	023
	024	DX Mellow3	63	5	024
	025	DX Crisp 2	63	5	025
	026	DX Crisp 3	63	5	026
CLAV	001	Clavi 1	63	6	001
	002	Clavi St	63	6	002
	003	Clavi Mt 1	63	6	003
	004	Clavi Wah	63	6	004
	005	Clavi 2	63	6	005
	006	ClaviChrus	63	6	006
	007	Clavi TMod	63	6	007
	008	ClaviMtWah	63	6	008
	009	Clavi Mt 2	63	6	009
	010	ClaviPhase	63	6	010
	011	Clavi PWah	63	6	011
	012	Harpsi 1	63	6	012
	013	Harpsi 2	63	6	013
	014	Harpsi1 Dt	63	6	014
	015	Harpsi 1-2	63	6	015
	016	Harpsi2 Dt	63	6	016
	017	Harpsi 2-2	63	6	017
ORGAN	001	DrawOrg2Rt	63	7	001
	002	Perc.OrgRt	63	7	002
	003	EvenBarRt	63	7	003
	004	SoftOrgnRt	63	7	004
	005	Petit Rt	63	7	005
	006	70sPrcOrRt	63	7	006
	007	FullCV Fst	63	7	007
	008	DrawOrgFst	63	7	008
	009	LightOrFst	63	7	009
	010	RockRotar2	63	7	010
	011	Full CV	63	7	011
	012	Rotary Vel	63	7	012
	013	Progressiv	63	7	013
	014	RockOrgan1	63	7	014
	015	DrawOrg 2	63	7	015
	016	60sOrgan 3	63	7	016
	017	LightOrgan	63	7	017
	018	RockOrgan2	63	7	018
	019	60sOrgan 4	63	7	019
	020	RotaryOrg	63	7	020
	021	FastRotarC	63	7	021
	022	RockRotar1	63	7	022
	023	DetPercOrg	63	7	023
	024	DrawOrg 1	63	7	024
	025	Perc.Organ	63	7	025
	026	Vintage C	63	7	026
	027	Rock Perc	63	7	027
	028	EvenBarOrg	63	7	028
	029	Soft Organ	63	7	029
	030	JazzOrgan	63	7	030
	031	Petit	63	7	031
	032	70sPercOrg	63	7	032
	033	60sOrgan 1	63	7	033
	034	60sOrgan 2	63	7	034
	035	1967 Keys	63	7	035
	036	Compact	63	7	036
	037	Panther	63	7	037
	038	Saw Combo	63	7	038
	039	PipeOrganT	63	7	039

CP4 STAGE

Category	No.	Voice Name	Bank Select MSB	Bank Select LSB	Program Change (1 origin)
ORGAN	040	ChurchOrg2	63	7	040
	041	PipeOrgan4	63	7	041
	042	Bandoneon	63	7	042
	043	ChurchOrg1	63	7	043
	044	PipeOrgan1	63	7	044
	045	PipeOrgan2	63	7	045
	046	PipeOrgan3	63	7	046
	047	Puff Organ	63	7	047
	048	Trem.Organ	63	7	048
	049	Musette	63	7	049
	050	Tango	63	7	050
CH.PERC	001	DigiBell 3	63	8	001
	002	Bell Harp	63	8	002
	003	TubularBel	63	8	003
	004	SftCrystal	63	8	004
	005	RoundGlock	63	8	005
	006	Marimba 2	63	8	006
	007	Vib St	63	8	007
	008	Dulcimer	63	8	008
	009	SteelDrums	63	8	009
	010	Agogo	63	8	010
	011	Glocken	63	8	011
	012	AirBells	63	8	012
	013	DigiBell 1	63	8	013
	014	Star Dust	63	8	014
	015	DigiBell 2	63	8	015
	016	Carillon	63	8	016
	017	Vibraphone	63	8	017
	018	HardVibes	63	8	018
	019	Marimba 1	63	8	019
	020	Balimba	63	8	020
	021	MusicBox	63	8	021
	022	Xylophone	63	8	022
	023	Kalimba	63	8	023
STRINGS	001	Velo Str	63	9	001
	002	SectionSt4	63	9	002
	003	Warm Str	63	9	003
	004	Flute+Str	63	9	004
	005	TremOrchst	63	9	005
	006	Trem+Horn	63	9	006
	007	70's Str 2	63	9	007
	008	SectionSt1	63	9	008
	009	SectionSt2	63	9	009
	010	Orchestra1	63	9	010
	011	SectionSt3	63	9	011
	012	ArcoString	63	9	012
	013	Strings 1	63	9	013
	014	Strings 2	63	9	014
	015	Orchestra2	63	9	015
	016	Strings 3	63	9	016
	017	Orchestra3	63	9	017
	018	Slow Str 1	63	9	018
	019	Legato Str	63	9	019
	020	Slow Str 2	63	9	020
	021	Slow Str 3	63	9	021
	022	60's Str	63	9	022
	023	70's Str 1	63	9	023
	024	SlwAtTrem	63	9	024
	025	Trem Str	63	9	025
	026	Pizzicato	63	9	026
	027	Quartet	63	9	027
	028	Sweet Vn	63	9	028
	029	Harp	63	9	029
CHOIR	001	Choir 1	63	10	001
	002	Air Choir	63	10	002
	003	Choir Aah	63	10	003
	004	Choir 2	63	10	004
	005	VoiceOohs1	63	10	005
	006	Itopia	63	10	006
	007	Choir 3	63	10	007
	008	Slow Vox	63	10	008
	009	Slow Choir	63	10	009
	010	VoiceOohs2	63	10	010
	011	Twist	63	10	011

Category	No.	Voice Name	Bank Select MSB	Bank Select LSB	Program Change (1 origin)
PAD	001	NeoCrystal	63	11	001
	002	Bell Pad 2	63	11	002
	003	SharpTeeth	63	11	003
	004	Ring Pad	63	11	004
	005	Analog Pad	63	11	005
	006	LFO Pad	63	11	006
	007	Chill Scap	63	11	007
	008	Str Pad	63	11	008
	009	Back Pad	63	11	009
	010	Planet	63	11	010
	011	Atmosphere	63	11	011
	012	Click Pad	63	11	012
	013	Harp Vox	63	11	013
	014	Pad 80	63	11	014
	015	Poly Pad	63	11	015
	016	Glass Harp	63	11	016
	017	Bell Pad 1	63	11	017
	018	Digi Stuff	63	11	018
	019	NewAgePad	63	11	019
	020	Darklight	63	11	020
	021	Vapor	63	11	021
	022	Soft Pad 1	63	11	022
	023	VP Soft	63	11	023
	024	GlassPad	63	11	024
	025	Soft Pad 2	63	11	025
	026	SinePad	63	11	026
	027	Echoes	63	11	027
	028	Amb Pad	63	11	028
	029	Pan Pad	63	11	029
	030	Sci-Fi	63	11	030
	031	Big Pan	63	11	031
	032	Goblins	63	11	032
	033	SweepPad 1	63	11	033
	034	GoblinsSyn	63	11	034
	035	Celestial	63	11	035
	036	Converge	63	11	036
	037	Creation	63	11	037
	038	SweepPad 2	63	11	038
	039	Da Pad	63	11	039
	040	Ancestral	63	11	040
	041	Soundtrack	63	11	041
	042	Echo Pad	63	11	042
	043	Rain	63	11	043
	044	Dark Star	63	11	044
	045	Mind Bell	63	11	045
	046	ZEN	63	11	046
SYNTH	001	Light Pad	63	12	001
	002	Syn Str 1	63	12	002
	003	Analog Str	63	12	003
	004	Syn Str 2	63	12	004
	005	Syn Str 3	63	12	005
	006	Tron Str	63	12	006
	007	DancyHook	63	12	007
	008	FaaatDance	63	12	008
	009	TechnoBrss	63	12	009
	010	After 1984	63	12	010
	011	AnalogLd 3	63	12	011
	012	Saw Lead 3	63	12	012
	013	Wire Lead	63	12	013
	014	Big Lead 2	63	12	014
	015	AnalogLd 4	63	12	015
	016	Early Lead	63	12	016
	017	Trojan	63	12	017
	018	Punch Lead	63	12	018
	019	Soft RnB	63	12	019
	020	Popcorn	63	12	020
	021	Impact	63	12	021
	022	Synth Tp	63	12	022
	023	AnalogLd 1	63	12	023
	024	Big Lead 1	63	12	024
	025	DynmicMini	63	12	025
	026	Crying	63	12	026
	027	Saw Lead 1	63	12	027
	028	Digital Ld	63	12	028

CP4 STAGE

Category	No.	Voice Name	Bank Select MSB	Bank Select LSB	Program Change (1 origin)
SYNTH	029	Mini Three	63	12	029
	030	Sky Walk	63	12	030
	031	AnalogLd 2	63	12	031
	032	Saw Lead 2	63	12	032
	033	Mini Soft	63	12	033
	034	Inda Night	63	12	034
	035	Orbit Sine	63	12	035
	036	Tiny Lead	63	12	036
	037	Syn Whistl	63	12	037
	038	Raplead	63	12	038
	039	FunkLead 1	63	12	039
	040	RezzPunch	63	12	040
	041	FunkLead 2	63	12	041
	042	SquareLd 1	63	12	042
	043	SquareLd 2	63	12	043
	044	Voice Lead	63	12	044
	045	Wind Lead	63	12	045
	046	CalliopeLd	63	12	046
BRASS	001	BrassSect4	63	13	001
	002	SaxSection	63	13	002
	003	High Brass	63	13	003
	004	5th Horns	63	13	004
	005	Horn+Str 2	63	13	005
	006	Sweet Tp	63	13	006
	007	Tp&TbSect	63	13	007
	008	Sfz Brass	63	13	008
	009	BrassSect1	63	13	009
	010	BrassSect2	63	13	010
	011	BrassSect3	63	13	011
	012	MellowBr 1	63	13	012
	013	MellowBr 2	63	13	013
	014	Soft Brass	63	13	014
	015	FrenchHorn	63	13	015
	016	Horn+Str 1	63	13	016
	017	Brass+Str	63	13	017
	018	Trumpet	63	13	018
	019	Tb Section	63	13	019
	020	SoftSynBr1	63	13	020
	021	SoftSynBr2	63	13	021
	022	SynthBrass	63	13	022
	023	Big Squish	63	13	023
	024	AnalogBrss	63	13	024
	025	OberBrass1	63	13	025
	026	OberBrass2	63	13	026
	027	OberBrass3	63	13	027
	028	Funky Poly	63	13	028
	029	ChoirBrass	63	13	029
	030	Jump Brass	63	13	030
	031	Sweet Alto	63	13	031
	032	Flute 2	63	13	032
	033	Bottle	63	13	033
	034	Alto Sax	63	13	034
	035	Tenor Sax	63	13	035
	036	Flute 1	63	13	036
	037	Recorder	63	13	037
	038	Clarinet	63	13	038
	039	Oboe	63	13	039
	040	Bassoon	63	13	040
	041	Harmonica	63	13	041
	042	Ocarina	63	13	042
	043	PanFlute	63	13	043
GUITAR/BASS	001	Nylon Gt 1	63	14	001
	002	Nylon+Harm	63	14	002
	003	Steel Gt 1	63	14	003
	004	12StrGt 1	63	14	004
	005	12StrGt 2	63	14	005
	006	Clean Gt 1	63	14	006
	007	60's Clean	63	14	007
	008	FunkGuitar	63	14	008
	009	Clean Gt 3	63	14	009
	010	12StrClean	63	14	010
	011	Dist Gt 1	63	14	011
	012	OverTheTop	63	14	012
	013	Crunch Gt	63	14	013

Category	No.	Voice Name	Bank Select MSB	Bank Select LSB	Program Change (1 origin)
GUITAR/BASS	014	Crunch Oct	63	14	014
	015	Mute Dist	63	14	015
	016	JazzGuitar	63	14	016
	017	Nylon Gt 2	63	14	017
	018	Steel Gt 2	63	14	018
	019	Clean Gt 2	63	14	019
	020	Dist Gt 2	63	14	020
	021	HawaiianGt	63	14	021
	022	Banjo	63	14	022
	023	Mandolin	63	14	023
	024	AcousticBa	63	14	024
	025	FingerBa 2	63	14	025
	026	FingerBa 1	63	14	026
	027	FlangeBa 1	63	14	027
	028	FlangeBa 2	63	14	028
	029	PickBa OM	63	14	029
	030	PickBa M	63	14	030
	031	PickBa O	63	14	031
	032	Slap Bass	63	14	032
	033	Fretless 1	63	14	033
	034	Fretless 2	63	14	034
	035	SynthBass5	63	14	035
	036	Big Bass	63	14	036
	037	101 Bass	63	14	037
	038	Competitor	63	14	038
	039	PercPunch	63	14	039
	040	SynthBass6	63	14	040
	041	TranceBass	63	14	041
	042	Dark Bass	63	14	042
	043	ClickSynBa	63	14	043
	044	SynthBass1	63	14	044
	045	SynthBass2	63	14	045
	046	SynthBass3	63	14	046
	047	AcidBass	63	14	047
	048	SynthBass4	63	14	048
	049	SquareBass	63	14	049
	050	Long Spit	63	14	050
	051	Fundamentl	63	14	051
	052	One Voice	63	14	052
	053	Fat Sine	63	14	053
	054	FatSineRes	63	14	054
	055	BobbyBass	63	14	055
	056	A.Ba + Cym	63	14	056
	057	E.Ba + Cym	63	14	057
OTHERS	001	Kanoon	63	15	001
	002	Shamisen	63	15	002
	003	Sitar	63	15	003
	004	Shakuhachi	63	15	004
	005	Bagpipe	63	15	005
OTHERS (Drum)	006	Standard 1	63	32	001
	007	Standard 2	63	32	002
	008	Brush	63	32	003
	009	Classic	63	32	004
	010	Hip Hop	63	32	005
	011	Break	63	32	006
	012	AnalogT9	63	32	007
	013	Hit	63	32	008
	014	Room	63	32	009
	015	Rock	63	32	010
	016	Electronic	63	32	011
	017	Analog	63	32	012
	018	Dance	63	32	013
	019	Jazz	63	32	014

CP40 STAGE

Category	No.	Voice Name	Bank Select MSB	Bank Select LSB	Program Change (1 origin)
A.PIANO	001	CF St	63	0	001
	002	CF St+	63	0	002
	003	CF St-	63	0	003
	004	CF Mn	63	0	004
	005	CF Mn+	63	0	005
	006	CF Mn-	63	0	006
	007	CF Rock	63	0	007
	008	CF Dark	63	0	008
	009	CF Comp	63	0	009
	010	CF StFl	63	0	010
	011	CF StFl+	63	0	011
	012	CF StFl-	63	0	012
	013	CF MnFl	63	0	013
	014	CF MnFl+	63	0	014
	015	CF MnFl-	63	0	015
E.PIANO	001	75Rd I	63	3	001
	002	75Rd Trem	63	3	002
	003	75Rd Phase	63	3	003
	004	69Wr	63	3	004
	005	77Wr	63	3	005
	006	69Wr Trem	63	3	006
	007	69Wr Drive	63	3	007
	008	77Wr Trem	63	3	008
	009	77Wr Drive	63	3	009
	010	CP80	63	3	010
	011	CP88	63	3	011
	012	CP80 Fl	63	3	012
	013	CP88 Fl	63	3	013
	014	CP80HiBrit	63	3	014
	015	CP80Detune	63	3	015
	016	CP80Chorus	63	3	016
	017	CP88Trem	63	3	017
	018	DX Legend1	63	3	018
	019	DX Woody 1	63	3	019
	020	DX FTine 1	63	3	020
	021	DX 7II 1	63	3	021
	022	DX Mellow1	63	3	022
	023	DX Crisp 1	63	3	023
	024	DX Legend2	63	3	024
	025	DX Legend3	63	3	025
	026	DX Woody 2	63	3	026
	027	DX Woody 3	63	3	027
	028	DX FTine 2	63	3	028
	029	DX FTine 3	63	3	029
	030	DX 7II 2	63	3	030
	031	DX 7II 3	63	3	031
	032	DX Mellow2	63	3	032
	033	DX Mellow3	63	3	033
	034	DX Crisp 2	63	3	034
	035	DX Crisp 3	63	3	035
CLAV	001	Clavi 1	63	6	001
	002	Clavi St	63	6	002
	003	Clavi Mt 1	63	6	003
	004	Clavi Wah	63	6	004
	005	Clavi 2	63	6	005
	006	ClaviChrus	63	6	006
	007	Clavi TMod	63	6	007
	008	ClaviMtWah	63	6	008
	009	Clavi Mt 2	63	6	009
	010	ClaviPhase	63	6	010
	011	Clavi PWah	63	6	011
	012	Harpsi 1	63	6	012
	013	Harpsi 2	63	6	013
	014	Harpsi1 Dt	63	6	014
	015	Harpsi 1-2	63	6	015
	016	Harpsi2 Dt	63	6	016
	017	Harpsi 2-2	63	6	017
ORGAN	001	Perc.OrgRt	63	7	001
	002	EvenBarRt	63	7	002
	003	SoftOrgnRt	63	7	003
	004	Petit Rt	63	7	004
	005	70sPrcOrRt	63	7	005
	006	RotaryOrg	63	7	006
	007	FastRotarC	63	7	007
	008	Rock Rotar	63	7	008

Category	No.	Voice Name	Bank Select MSB	Bank Select LSB	Program Change (1 origin)
ORGAN	009	DetPercOrg	63	7	009
	010	Draw Org	63	7	010
	011	Perc Organ	63	7	011
	012	Vintage C	63	7	012
	013	Rock Perc	63	7	013
	014	EvenBarOrg	63	7	014
	015	Soft Organ	63	7	015
	016	JazzOrgan	63	7	016
	017	Petit	63	7	017
	018	70sPercOrg	63	7	018
	019	60sOrgan 1	63	7	019
	020	60sOrgan 2	63	7	020
	021	1967 Keys	63	7	021
	022	Compact	63	7	022
	023	Panther	63	7	023
	024	Saw Combo	63	7	024
	025	Church Org	63	7	025
	026	PipeOrgan1	63	7	026
	027	PipeOrgan2	63	7	027
	028	PipeOrgan3	63	7	028
	029	Puff Organ	63	7	029
	030	Trem Organ	63	7	030
	031	Musette	63	7	031
	032	Tango	63	7	032
CH.PERC	001	Glocken	63	8	001
	002	AirBells	63	8	002
	003	DigiBell 1	63	8	003
	004	Star Dust	63	8	004
	005	DigiBell 2	63	8	005
	006	Carillon	63	8	006
	007	Vibraphone	63	8	007
	008	HardVibes	63	8	008
	009	Marimba	63	8	009
	010	Balimba	63	8	010
	011	MusicBox	63	8	011
	012	Xylophone	63	8	012
	013	Kalimba	63	8	013
STRINGS	001	SectionSt1	63	9	001
	002	SectionSt2	63	9	002
	003	Orchestra1	63	9	003
	004	SectionSt3	63	9	004
	005	ArcoString	63	9	005
	006	Strings 1	63	9	006
	007	Strings 2	63	9	007
	008	Orchestra2	63	9	008
	009	Strings 3	63	9	009
	010	Orchestra3	63	9	010
	011	Slow Str 1	63	9	011
	012	Legato Str	63	9	012
	013	Slow Str 2	63	9	013
	014	60's Str	63	9	014
	015	70's Str	63	9	015
	016	SlwAtTrem	63	9	016
	017	Trem Str	63	9	017
	018	Pizzicato	63	9	018
	019	Quartet	63	9	019
	020	Sweet Vn	63	9	020
	021	Harp	63	9	021
CHOIR	001	Choir 1	63	10	001
	002	Air Choir	63	10	002
	003	Choir Aah	63	10	003
	004	Choir 2	63	10	004
	005	Voice Oohs	63	10	005
	006	Itopia	63	10	006
	007	Twist	63	10	007
PAD	001	Str Pad	63	11	001
	002	Back Pad	63	11	002
	003	Planet	63	11	003
	004	Atmosphere	63	11	004
	005	Click Pad	63	11	005
	006	Harp Vox	63	11	006
	007	Pad 80	63	11	007
	008	Poly Pad	63	11	008
	009	Glass Harp	63	11	009
	010	Bell Pad	63	11	010

CP40 STAGE

Category	No.	Voice Name	Bank Select MSB	Bank Select LSB	Program Change (1 origin)
PAD	011	Digi Stuff	63	11	011
	012	NewAgePad	63	11	012
	013	Darklight	63	11	013
	014	Vapor	63	11	014
	015	Soft Pad 1	63	11	015
	016	VP Soft	63	11	016
	017	GlassPad	63	11	017
	018	Soft Pad 2	63	11	018
	019	SinePad	63	11	019
	020	Echoes	63	11	020
	021	Amb Pad	63	11	021
	022	Pan Pad	63	11	022
	023	Sci-Fi	63	11	023
	024	Big Pan	63	11	024
	025	Goblins	63	11	025
	026	SweepPad 1	63	11	026
	027	GoblinsSyn	63	11	027
	028	Celestial	63	11	028
	029	Converge	63	11	029
	030	Creation	63	11	030
	031	SweepPad 2	63	11	031
	032	Da Pad	63	11	032
	033	Ancestral	63	11	033
	034	Soundtrack	63	11	034
	035	Echo Pad	63	11	035
	036	Rain	63	11	036
	037	Dark Star	63	11	037
	038	Mind Bell	63	11	038
	039	ZEN	63	11	039
SYNTH	001	Syn Str 1	63	12	001
	002	Analog Str	63	12	002
	003	Syn Str 2	63	12	003
	004	Syn Str 3	63	12	004
	005	Tron Str	63	12	005
	006	DancyHook	63	12	006
	007	FaaatDance	63	12	007
	008	TechnoBrss	63	12	008
	009	After 1984	63	12	009
	010	Synth Tp	63	12	010
	011	AnalogLd	63	12	011
	012	Big Lead	63	12	012
	013	DynmicMini	63	12	013
	014	Crying	63	12	014
	015	Saw Lead 1	63	12	015
	016	Digital Ld	63	12	016
	017	Mini Three	63	12	017
	018	Sky Walk	63	12	018
	019	AnalogLd 2	63	12	019
	020	Saw Lead 2	63	12	020
	021	Mini Soft	63	12	021
	022	Inda Night	63	12	022
	023	Orbit Sine	63	12	023
	024	Tiny Lead	63	12	024
	025	Syn Whistl	63	12	025
	026	Raplead	63	12	026
	027	FunkLead 1	63	12	027
	028	RezzPunch	63	12	028
	029	FunkLead 2	63	12	029
	030	SquareLd 1	63	12	030
	031	SquareLd 2	63	12	031
	032	Voice Lead	63	12	032
	033	Wind Lead	63	12	033
	034	CalliopeLd	63	12	034
BRASS	001	Sfz Brass	63	13	001
	002	BrassSect1	63	13	002
	003	BrassSect2	63	13	003
	004	BrassSect3	63	13	004
	005	MellowBr 1	63	13	005
	006	MellowBr 2	63	13	006
	007	Soft Brass	63	13	007
	008	FrenchHorn	63	13	008
	009	Horn+Str	63	13	009
	010	Brass+Str	63	13	010
	011	Trumpet	63	13	011
	012	Tb Section	63	13	012

Category	No.	Voice Name	Bank Select MSB	Bank Select LSB	Program Change (1 origin)
BRASS	013	SynthBrass	63	13	013
	014	Big Squish	63	13	014
	015	AnalogBrss	63	13	015
	016	OberBrass1	63	13	016
	017	OberBrass2	63	13	017
	018	OberBrass3	63	13	018
	019	Funky Poly	63	13	019
	020	ChoirBrass	63	13	020
	021	Jump Brass	63	13	021
	022	Alto Sax	63	13	022
	023	Tenor Sax	63	13	023
	024	Flute	63	13	024
	025	Recorder	63	13	025
	026	Clarinet	63	13	026
	027	Oboe	63	13	027
	028	Bassoon	63	13	028
	029	Harmonica	63	13	029
	030	Ocarina	63	13	030
	031	PanFlute	63	13	031
GUITAR/BASS	001	Nylon Gt 1	63	14	001
	002	Steel Gt 1	63	14	002
	003	Clean Gt 1	63	14	003
	004	60's Clean	63	14	004
	005	Dist Gt 1	63	14	005
	006	Nylon Gt 2	63	14	006
	007	Steel Gt 2	63	14	007
	008	Clean Gt 2	63	14	008
	009	Dist Gt 2	63	14	009
	010	AcousticBa	63	14	010
	011	Finger Ba	63	14	011
	012	FlangeBa 1	63	14	012
	013	FlangeBa 2	63	14	013
	014	PickBa OM	63	14	014
	015	PickBa M	63	14	015
	016	PickBa O	63	14	016
	017	Slap Bass	63	14	017
	018	Fretless 1	63	14	018
	019	Fretless 2	63	14	019
	020	ClickSynBa	63	14	020
	021	SynthBass1	63	14	021
	022	SynthBass2	63	14	022
	023	SynthBass3	63	14	023
	024	AcidBass	63	14	024
	025	SynthBass4	63	14	025
	026	SquareBass	63	14	026
	027	Long Spit	63	14	027
	028	Fundamentl	63	14	028
	029	One Voice	63	14	029
	030	Fat Sine	63	14	030
	031	FatSineRes	63	14	031
	032	BobbyBass	63	14	032
	033	A.Ba + Cym	63	14	033
	034	E.Ba + Cym	63	14	034
OTHERS	001	Kanoon	63	15	001
	002	Shamisen	63	15	002
	003	Sitar	63	15	003
	004	Shakuhachi	63	15	004
	005	Bagpipe	63	15	005
OTHERS (Drum)	006	Standard 1	63	32	001
	007	Standard 2	63	32	002
	008	Brush	63	32	003
	009	Classic	63	32	004
	010	Hip Hop	63	32	005
	011	Break	63	32	006
	012	AnalogT9	63	32	007
	013	Hit	63	32	008
	014	Room	63	32	009
	015	Rock	63	32	010
	016	Electronic	63	32	011
	017	Analog	63	32	012
	018	Dance	63	32	013
	019	Jazz	63	32	014

Drum Kit Assign List

Standard 1

Note	Wave Name
C#-1	SURDO MUTE
D-1	SURDO OPEN
D#-1	HI Q
E-1	WHIP SLAP
F-1	SCRATCH H
F#-1	SCRATCH L
G-1	FINGER SNAP
G#-1	CLICK NOISE
A-1	MTRNM CLICK
A#-1	MTRNM BELL
B-1	SEQ CLICK L
C0	SEQ CLICK H
C#0	BRUSH TAP
D0	BRUSH SWIRL
D#0	BRUSH SLAP
E0	BRSH TP SWRL
F0	SNARE ROLL
F#0	CASTANET
G0	SNARE SOFT
G#0	STICKS
A0	KICK SOFT
A#0	OPEN RIM SHT
B0	KICK TIGHT
C1	KICK
C#1	SIDE STICK
D1	SNARE
D#1	HAND CLAP
E1	SNARE TIGHT
F1	FLOOR TOM L
F#1	HI-HAT CLOSE
G1	FLOOR TOM H
G#1	HI-HAT PEDAL
A1	LOW TOM
A#1	HI-HAT OPEN
B1	MID TOM L
C2	MID TOM H
C#2	CRASH CYMBL1
D2	HIGH TOM
D#2	RIDE CYMBL 1
E2	CHINESE CYM
F2	RIDE CYM CUP
F#2	TAMBOURINE
G2	SPLASH CYM
G#2	COWBELL
A2	CRASH CYMBL2
A#2	VIBRASLAP
B2	RIDE CYMBL 2
C3	BONGO H
C#3	BONGO L
D3	CONGA H MUTE
D#3	CONGA H OPEN
E3	CONGA L
F3	TIMBALE H
F#3	TIMBALE L
G3	AGOGO H
G#3	AGOGO L
A3	CABASA
A#3	MARACAS
B3	SAMBA WHSL H
C4	SAMBA WHSL L
C#4	GUIRO SHORT
D4	GUIRO LONG
D#4	CLAVES
E4	WOOD BLOCK H
F4	WOOD BLOCK L
F#4	CUICA MUTE
G4	CUICA OPEN
G#4	TRIANGLE MT
A4	TRIANGLE OPN
A#4	SHAKER
B4	JINGLE BELLS
C5	BELL TREE
C#5	
D5	
D#5	
E5	
F5	
F#5	
G5	

Standard 2

Note	Wave Name
C#-1	SURDO MUTE
D-1	SURDO OPEN
D#-1	HI Q
E-1	WHIP SLAP
F-1	SCRATCH H
F#-1	SCRATCH L
G-1	FINGER SNAP
G#-1	CLICK NOISE
A-1	MTRNM CLICK
A#-1	MTRNM BELL
B-1	SEQ CLICK L
C0	SEQ CLICK H
C#0	BRUSH TAP
D0	BRUSH SWIRL
D#0	BRUSH SLAP
E0	BRSH TP SWRL
F0	SNARE ROLL
F#0	CASTANET
G0	SNARE SOFT 2
G#0	STICKS
A0	KICK SOFT
A#0	OPEN RIM SHT
B0	KICK TIGHT 2
C1	KICK SHORT
C#1	SIDE STICK
D1	SNARE SHORT
D#1	HAND CLAP
E1	SNARE TITE H
F1	FLOOR TOM L
F#1	HI-HAT CLOSE
G1	FLOOR TOM H
G#1	HI-HAT PEDAL
A1	LOW TOM
A#1	HI-HAT OPEN
B1	MID TOM L
C2	MID TOM H
C#2	CRASH CYMBL1
D2	HIGH TOM
D#2	RIDE CYMBL 1
E2	CHINESE CYM
F2	RIDE CYM CUP
F#2	TAMBOURINE
G2	SPLASH CYM
G#2	COWBELL
A2	CRASH CYMBL2
A#2	VIBRASLAP
B2	RIDE CYMBL 2
C3	BONGO H
C#3	BONGO L
D3	CONGA H MUTE
D#3	CONGA H OPEN
E3	CONGA L
F3	TIMBALE H
F#3	TIMBALE L
G3	AGOGO H
G#3	AGOGO L
A3	CABASA
A#3	MARACAS
B3	SAMBA WHSL H
C4	SAMBA WHSL L
C#4	GUIRO SHORT
D4	GUIRO LONG
D#4	CLAVES
E4	WOOD BLOCK H
F4	WOOD BLOCK L
F#4	CUICA MUTE
G4	CUICA OPEN
G#4	TRIANGLE MT
A4	TRIANGLE OPN
A#4	SHAKER
B4	JINGLE BELLS
C5	BELL TREE
C#5	
D5	
D#5	
E5	
F5	
F#5	
G5	

Brush

Note	Wave Name
C#-1	SURDO MUTE
D-1	SURDO OPEN
D#-1	HI Q
E-1	WHIP SLAP
F-1	SCRATCH H
F#-1	SCRATCH L
G-1	FINGER SNAP
G#-1	CLICK NOISE
A-1	MTRNM CLICK
A#-1	MTRNM BELL
B-1	SEQ CLICK L
C0	SEQ CLICK H
C#0	BRUSH TAP
D0	BRUSH SWIRL
D#0	BRUSH SLAP
E0	BRSH TP SWRL
F0	SNARE ROLL
F#0	CASTANET
G0	BRUSH SLAP 2
G#0	STICKS
A0	KICK SOFT
A#0	OPEN RIM SHT
B0	KICK TIGHT 2
C1	KICK SHORT
C#1	SIDE STICK
D1	BRUSH SLAP 3
D#1	HAND CLAP
E1	BRUSH TAP 2
F1	TOM BRUSH 1
F#1	HI-HAT CLOSE
G1	TOM BRUSH 2
G#1	HI-HAT PEDAL
A1	TOM BRUSH 3
A#1	HI-HAT OPEN
B1	TOM BRUSH 4
C2	TOM BRUSH 5
C#2	CRASH CYMBL1
D2	TOM BRUSH 6
D#2	RIDE CYMBL 2
E2	CHINESE CYM
F2	RIDE CYM CUP 3
F#2	TAMBOURINE
G2	SPLASH CYM
G#2	COWBELL
A2	CRASH CYMBL3
A#2	VIBRASLAP
B2	RIDE CYMBL 4
C3	BONGO H
C#3	BONGO L
D3	CONGA H MUTE
D#3	CONGA H OPEN
E3	CONGA L
F3	TIMBALE H
F#3	TIMBALE L
G3	AGOGO H
G#3	AGOGO L
A3	CABASA
A#3	MARACAS
B3	SAMBA WHSL H
C4	SAMBA WHSL L
C#4	GUIRO SHORT
D4	GUIRO LONG
D#4	CLAVES
E4	WOOD BLOCK H
F4	WOOD BLOCK L
F#4	CUICA MUTE
G4	CUICA OPEN
G#4	TRIANGLE MT
A4	TRIANGLE OPN
A#4	SHAKER
B4	JINGLE BELLS
C5	BELL TREE
C#5	
D5	
D#5	
E5	
F5	
F#5	
G5	

Classic

Note	Wave Name
C#-1	SURDO MUTE
D-1	SURDO OPEN
D#-1	HI Q
E-1	WHIP SLAP
F-1	SCRATCH H
F#-1	SCRATCH L
G-1	FINGER SNAP
G#-1	CLICK NOISE
A-1	MTRNM CLICK
A#-1	MTRNM BELL
B-1	SEQ CLICK L
C0	SEQ CLICK H
C#0	BRUSH TAP
D0	BRUSH SWIRL
D#0	BRUSH SLAP
E0	BRSH TP SWRL
F0	SNARE ROLL H
F#0	CASTANET
G0	SNARE SOFT 3
G#0	STICKS
A0	KICK SOFT
A#0	OPEN RIM SHT
B0	GRAN CASSA
C1	GRAN CASSA M
C#1	SIDE STICK
D1	BAND SNARE
D#1	HAND CLAP
E1	BAND SNARE 2
F1	FLOOR TOM L
F#1	HI-HAT CLOSE
G1	FLOOR TOM H
G#1	HI-HAT PEDAL
A1	LOW TOM
A#1	HI-HAT OPEN
B1	MID TOM L
C2	MID TOM H
C#2	HAND CYMBAL
D2	HIGH TOM
D#2	HND CYM SHT
E2	CHINESE CYM
F2	RIDE CYM CUP
F#2	TAMBOURINE
G2	SPLASH CYM
G#2	COWBELL
A2	HAND CYMBAL2
A#2	VIBRASLAP
B2	HND CYM SHT2
C3	BONGO H
C#3	BONGO L
D3	CONGA H MUTE
D#3	CONGA H OPEN
E3	CONGA L
F3	TIMBALE H
F#3	TIMBALE L
G3	AGOGO H
G#3	AGOGO L
A3	CABASA
A#3	MARACAS
B3	SAMBA WHSL H
C4	SAMBA WHSL L
C#4	GUIRO SHORT
D4	GUIRO LONG
D#4	CLAVES
E4	WOOD BLOCK H
F4	WOOD BLOCK L
F#4	CUICA MUTE
G4	CUICA OPEN
G#4	TRIANGLE MT
A4	TRIANGLE OPN
A#4	SHAKER
B4	JINGLE BELLS
C5	BELL TREE
C#5	
D5	
D#5	
E5	
F5	
F#5	
G5	

Hip Hop

Note	Wave Name
C#-1	SURDO MUTE
D-1	SURDO OPEN
D#-1	HI Q
E-1	WHIP SLAP
F-1	SCRATCH H
F#-1	SCRATCH L
G-1	HAT CLS T8 2
G#-1	TOM T8 3
A-1	HAT OPN T8 2
A#-1	TOM T8 6
B-1	CRASH T8
C0	TRIANGLE MT
C#0	TRIANGLE OPN
D0	BELL TREE
D#0	TMBL RX5
E0	TMBL RX5 2
F0	KICK HIPHOP9
F#0	HAT CLS TEK
G0	KICK GATE
G#0	HAT OP LO-FI
A0	KICK GRCS OP
A#0	HAT REV D&B
B0	KICK HIPHOP1
C1	KICK ANCR
C#1	SNR ANSM RIM
D1	SNR HIPHOP 1
D#1	SNR CLAPPY
E1	SNR HIPHOP 2
F1	FLOOR TOM L
F#1	HAT CLS HIP
G1	LOW TOM
G#1	HAT PEDL HIP
A1	MID TOM L
A#1	HAT OPN HIP
B1	HIGH TOM
C2	RIDE CYM 3
C#2	CRASH CYM 3
D2	SHAKER 2
D#2	SCRATCH BD F
E2	SCRATCH BD R
F2	KICK HIPHOP2
F#2	SNR HIPH RM2
G2	HIPHOP CLAP2
G#2	HIPHOP SNAP1
A2	SNR HIPHOP3
A#2	ELE CLAP2
B2	KICK HIP DP
C3	KICK HIPHOP3
C#3	SNR HIPH RM3
D3	SNR HIPHOP5
D#3	ELE CLAP 1
E3	HANDBELL H
F3	KICK HIPHOP4
F#3	HIPHOP CLAP3
G3	HIPHOP SNAP2
G#3	SNR HIPH RM5
A3	HIPHOP FLEX1
A#3	HIPHOP FLEX2
B3	SHAKER 2
C4	KICK HIPHOP5
C#4	SNR HIPH RM4
D4	SNR HIPHOP 6
D#4	SNR HIPHOP11
E4	KICK HIPH 10
F4	SNR HIPHOP 7
F#4	HIPHOP CLAP5
G4	CONGA H TIP
G#4	CONGA H HEEL
A4	CONGA H OPN
A#4	CONGA L OP 1
B4	CONGA L OP 2
C5	KICK HIPHOP8
C#5	HIPHOP CLAP6
D5	SNR T8 1
D#5	SNR T8 1 H
E5	HIPHOP CLAP7
F5	TOM T8 1
F#5	HAT CLS T8 2
G5	TOM T8 2

Break

Note	Wave Name
C#-1	SURDO MUTE
D-1	SURDO OPEN
D#-1	HI Q
E-1	WHIP SLAP
F-1	SCRATCH H
F#-1	SCRATCH L
G-1	FINGER SNAP
G#-1	SNR BRK 8
A-1	SNR BRK 9
A#-1	HAT CLS BRK1
B-1	HAT CLS BRK2
C0	KICK BRK DP
C#0	SNR HIP
D0	SNR LO-FI
D#0	SNR CLAPPY
E0	SNR LDWHMONO
F0	SNR ROCKROLL
F#0	SNR GATE 1
G0	SNR MID
G#0	SNR BRK RIM
A0	KICK BRK HVY
A#0	SNR HIP RIM4
B0	KICK BRK 2
C1	KICK BRK 1
C#1	SNR HIP RIM1
D1	SNR BRK 3
D#1	SNR BRK 1
E1	SNR BRK 2
F1	TOM BRK 1
F#1	HAT CLS RC S
G1	TOM BRK 2
G#1	HAT PEDAL RC
A1	TOM BRK 3
A#1	HAT HF OP RC
B1	TOM BRK 4
C2	TOM BRK 5
C#2	CRASH CYM 2
D2	TOM BRK 6
D#2	RIDE CYM 3
E2	CHINES CYM 2
F2	RI CYM CUP 2
F#2	TMBL1 HIT
G2	CRASH CYM 3
G#2	COWBELL 1
A2	CRASH CYM 2
A#2	COWBELL RX11
B2	RIDE CYM 2
C3	BONGO H
C#3	BONGO L
D3	CONGA H TIP
D#3	CONG H OP SL
E3	CONGA H OPN
F3	BONGO2 H
F#3	BONGO2 L
G3	CONGA OPN
G#3	AGOGO L
A3	CABASA 2
A#3	MARACAS SLUR
B3	TIMBALE H
C4	TIMBALE L
C#4	SCRATCH H 2
D4	SCRATCH DOWN
D#4	CLAVE
E4	WOOD BLOCK H 2
F4	WOOD BLOCK L 2
F#4	SCRATCH L
G4	SCRATCH L 2
G#4	TRIANGLE MT 2
A4	TRIANGLE OPN 2
A#4	KICK BRK 3
B4	KICK BRK 4
C5	KICK BRK 5
C#5	KICK BRK 6
D5	KICK BRK 7
D#5	HAT CLS BRK3
E5	SNR BRK 4
F5	SNR BRK 5
F#5	SNR BRK 6
G5	SNR BRK 7

AnalogT9

Note	Wave Name
C#-1	SURDO MUTE
D-1	SURDO OPEN
D#-1	HI Q
E-1	WHIP SLAP
F-1	SCRATCH H
F#-1	SCRATCH L
G-1	SNR D&B 1
G#-1	KICK BRK 2
A-1	SNR DIST
A#-1	KICK TEKPOW
B-1	KICK DIST RM
C0	KICK T9 2
C#0	SNR ANCR
D0	SNR T9 5
D#0	CLAP ANSM
E0	SNR T9GATE
F0	SNR ROCKROLL
F#0	SNR T9 3
G0	SNR T9 4
G#0	SNR T9GATE
A0	KICK T9 4
A#0	SNR T9 5
B0	KICK T9 1
C1	KICK T9 3
C#1	SNR T9 RIM
D1	SNR T9 1
D#1	CLAP T9
E1	SNR T9 2
F1	TOM T9 1
F#1	HAT CLS T9
G1	TOM T9 2
G#1	HAT PEDAL T9
A1	TOM T9 3
A#1	HAT OPN T9
B1	TOM T9 4
C2	TOM T9 5
C#2	CRASH T9
D2	TOM T9 6
D#2	RIDE T9
E2	CHINES CYM 2
F2	RI CYM CUP 4
F#2	TMBL RX5
G2	CRASH CYM 3
G#2	COWBELL 2
A2	CRASH CYM 4
A#2	COWBELL T8
B2	RIDE CYM 3
C3	CONGA T8 5
C#3	CONGA T8 4
D3	CONGA TIP
D#3	CONGA OP SL
E3	CONGA OPN
F3	TIMBALE H 2
F#3	TIMBALE L
G3	ANA CLICK
G#3	CONGA T8 1
A3	CABASA 3
A#3	MARACAS SLUR
B3	FXGUN 2
C4	FXGUN 1
C#4	SCRATCH H 2
D4	SCRATCH DOWN
D#4	HI Q 3
E4	HI Q 1
F4	HI Q 2
F#4	SCRATCH L
G4	SCRATCH L 2
G#4	TRIANGLE MT 2
A4	TRIANGLE OPN 2
A#4	ANA SHAKER
B4	SLEIGH BELL
C5	BELL TREE
C#5	SNR PICCOLO
D5	SNR T8 5
D#5	SNR ROCKROLD
E5	SNR BRUSH MT
F5	KICK BLIP HD
F#5	SNR JUNGLE 1
G5	KICK SUSTAIN

Hit

Note	Wave Name
C#-1	SURDO MUTE
D-1	SURDO OPEN
D#-1	HI Q
E-1	WHIP SLAP
F-1	SCRATCH H
F#-1	SCRATCH L
G-1	FINGER SNAP
G#-1	CLICK NOISE
A-1	MTRNM CLICK
A#-1	MTRNM BELL
B-1	SEQ CLICK L
C0	SEQ CLICK H
C#0	BRUSH TAP
D0	BRUSH SWIRL
D#0	BRUSH SLAP
E0	BRSH TP SWRL
F0	SNARE ROLL
F#0	CASTANET
G0	SNARE ELECTR
G#0	STICKS
A0	KICK TIGHT L
A#0	SNARE PITCH
B0	KICK WET
C1	KICK TIGHT H
C#1	STCK AMBIENT
D1	SNR AMBIENT
D#1	HAND CLAP 2
E1	SNARE TIGHT2
F1	HYBRID TOM 1
F#1	HI-HAT CLS 2
G1	HYBRID TOM 2
G#1	HI-HAT PDL 2
A1	HYBRID TOM 3
A#1	HI-HAT OPN 2
B1	HYBRID TOM 4
C2	HYBRID TOM 5
C#2	CRASH CYMBL1
D2	HYBRID TOM 6
D#2	RIDE CYMBL 1
E2	CHINESE CYM
F2	RIDE CYM CUP
F#2	TAMBOURINE
G2	SPLASH CYM
G#2	COWBELL 4
A2	CRASH CYMBL2
A#2	VIBRASLAP
B2	RIDE CYMBL 2
C3	BONGO H
C#3	BONGO L
D3	CONGA H MUTE
D#3	CONGA H OPEN
E3	CONGA L
F3	TIMBALE H
F#3	TIMBALE L
G3	AGOGO H
G#3	AGOGO L
A3	CABASA
A#3	MARACAS
B3	SAMBA WHSL H
C4	SAMBA WHSL L
C#4	GUIRO SHORT
D4	GUIRO LONG
D#4	CLAVES
E4	WOOD BLOCK H
F4	WOOD BLOCK L
F#4	CUICA MUTE
G4	CUICA OPEN
G#4	TRIANGLE MT
A4	TRIANGLE OPN
A#4	SHAKER
B4	JINGLE BELLS
C5	BELL TREE
C#5	
D5	
D#5	
E5	
F5	
F#5	
G5	

Room

Note	Wave Name
C#-1	SURDO MUTE
D-1	SURDO OPEN
D#-1	HI Q
E-1	WHIP SLAP
F-1	SCRATCH H
F#-1	SCRATCH L
G-1	FINGER SNAP
G#-1	CLICK NOISE
A-1	MTRNM CLICK
A#-1	MTRNM BELL
B-1	SEQ CLICK L
C0	SEQ CLICK H
C#0	BRUSH TAP
D0	BRUSH SWIRL
D#0	BRUSH SLAP
E0	BRSH TP SWRL
F0	SNARE ROLL H2
F#0	CASTANET
G0	SNARE SOFT 4
G#0	STICKS
A0	KICK SOFT
A#0	OPEN RIM SHT L
B0	KICK TIGHT 3
C1	KICK 3
C#1	SIDE STICK
D1	SNARE SNAPPY
D#1	HAND CLAP
E1	SNR TITE SNP
F1	TOM ROOM 1
F#1	HI-HAT CLOSE
G1	TOM ROOM 2
G#1	HI-HAT PEDAL
A1	TOM ROOM 3
A#1	HI-HAT OPEN
B1	TOM ROOM 4
C2	TOM ROOM 5
C#2	CRASH CYMBL1
D2	TOM ROOM 6
D#2	RIDE CYMBL 1
E2	CHINESE CYM
F2	RIDE CYM CUP
F#2	TAMBOURINE
G2	SPLASH CYM
G#2	COWBELL
A2	CRASH CYMBL2
A#2	VIBRASLAP
B2	RIDE CYMBL 2
C3	BONGO H
C#3	BONGO L
D3	CONGA H MUTE
D#3	CONGA H OPEN
E3	CONGA L
F3	TIMBALE H
F#3	TIMBALE L
G3	AGOGO H
G#3	AGOGO L
A3	CABASA
A#3	MARACAS
B3	SAMBA WHSL H
C4	SAMBA WHSL L
C#4	GUIRO SHORT
D4	GUIRO LONG
D#4	CLAVES
E4	WOOD BLOCK H
F4	WOOD BLOCK L
F#4	CUICA MUTE
G4	CUICA OPEN
G#4	TRIANGLE MT
A4	TRIANGLE OPN
A#4	SHAKER
B4	JINGLE BELLS
C5	BELL TREE
C#5	
D5	
D#5	
E5	
F5	
F#5	
G5	

Rock

Note	Wave Name
C#-1	SURDO MUTE
D-1	SURDO OPEN
D#-1	HI Q
E-1	WHIP SLAP
F-1	SCRATCH H
F#-1	SCRATCH L
G-1	FINGER SNAP
G#-1	CLICK NOISE
A-1	MTRNM CLICK
A#-1	MTRNM BELL
B-1	SEQ CLICK L
C0	SEQ CLICK H
C#0	BRUSH TAP
D0	BRUSH SWIRL
D#0	BRUSH SLAP
E0	BRSH TP SWRL
F0	SNARE ROLL H2
F#0	CASTANET
G0	SNARE NOISY
G#0	STICKS
A0	KICK SOFT
A#0	OPEN RIM SHT L
B0	KICK 2
C1	KICK GATE
C#1	SIDE STICK
D1	SNARE ROCK
D#1	HAND CLAP
E1	SN ROCK TITE
F1	TOM ROCK 1
F#1	HI-HAT CLOSE
G1	TOM ROCK 2
G#1	HI-HAT PEDAL
A1	TOM ROCK 3
A#1	HI-HAT OPEN
B1	TOM ROCK 4
C2	TOM ROCK 5
C#2	CRASH CYMBL1
D2	TOM ROCK 6
D#2	RIDE CYMBL 1
E2	CHINESE CYM
F2	RIDE CYM CUP
F#2	TAMBOURINE
G2	SPLASH CYM
G#2	COWBELL
A2	CRASH CYMBL2
A#2	VIBRASLAP
B2	RIDE CYMBL 2
C3	BONGO H
C#3	BONGO L
D3	CONGA H MUTE
D#3	CONGA H OPEN
E3	CONGA L
F3	TIMBALE H
F#3	TIMBALE L
G3	AGOGO H
G#3	AGOGO L
A3	CABASA
A#3	MARACAS
B3	SAMBA WHSL H
C4	SAMBA WHSL L
C#4	GUIRO SHORT
D4	GUIRO LONG
D#4	CLAVES
E4	WOOD BLOCK H
F4	WOOD BLOCK L
F#4	CUICA MUTE
G4	CUICA OPEN
G#4	TRIANGLE MT
A4	TRIANGLE OPN
A#4	SHAKER
B4	JINGLE BELLS
C5	BELL TREE
C#5	
D5	
D#5	
E5	
F5	
F#5	
G5	

Electronic

Note	Wave Name
C#-1	SURDO MUTE
D-1	SURDO OPEN
D#-1	HI Q
E-1	WHIP SLAP
F-1	SCRATCH H
F#-1	SCRATCH L
G-1	FINGER SNAP
G#-1	CLICK NOISE
A-1	MTRNM CLICK
A#-1	MTRNM BELL
B-1	SEQ CLICK L
C0	SEQ CLICK H
C#0	BRUSH TAP
D0	BRUSH SWIRL
D#0	BRUSH SLAP
E0	REVERS CYMBL
F0	SNARE ROLL H2
F#0	HI Q 2
G0	SN SNP ELCTR
G#0	STICKS
A0	KICK 3
A#0	OPEN RIM SHT L
B0	KICK GATE
C1	KCK GATE HVY
C#1	SIDE STICK
D1	SNR NOISY 2
D#1	HAND CLAP 2
E1	SNR NOISY 3
F1	TOM ELECTRO1
F#1	HI-HAT CLOSE
G1	TOM ELECTRO2
G#1	HI-HAT PEDAL
A1	TOM ELECTRO3
A#1	HI-HAT OPEN
B1	TOM ELECTRO4
C2	TOM ELECTRO5
C#2	CRASH CYMBL1
D2	TOM ELECTRO6
D#2	RIDE CYMBL 1
E2	CHINESE CYM
F2	RIDE CYM CUP
F#2	TAMBOURINE
G2	SPLASH CYM
G#2	COWBELL 4
A2	CRASH CYMBL2
A#2	VIBRASLAP
B2	RIDE CYMBL 2
C3	BONGO H
C#3	BONGO L
D3	CONGA H MUTE
D#3	CONGA H OPEN
E3	CONGA L
F3	TIMBALE H
F#3	TIMBALE L
G3	AGOGO H
G#3	AGOGO L
A3	CABASA
A#3	MARACAS
B3	SAMBA WHSL H
C4	SAMBA WHSL L
C#4	GUIRO SHORT
D4	GUIRO LONG
D#4	CLAVES
E4	WOOD BLOCK H
F4	WOOD BLOCK L
F#4	SCRATCH H 2
G4	SCRATCH L 4
G#4	TRIANGLE MT
A4	TRIANGLE OPN
A#4	SHAKER
B4	JINGLE BELLS
C5	BELL TREE
C#5	
D5	
D#5	
E5	
F5	
F#5	
G5	

Analog

Note	Wave Name
C#-1	SURDO MUTE
D-1	SURDO OPEN
D#-1	HI Q
E-1	WHIP SLAP
F-1	SCRATCH H
F#-1	SCRATCH L
G-1	FINGER SNAP
G#-1	CLICK NOISE
A-1	MTRNM CLICK
A#-1	MTRNM BELL
B-1	SEQ CLICK L
C0	SEQ CLICK H
C#0	BRUSH TAP
D0	BRUSH SWIRL
D#0	BRUSH SLAP
E0	REVERS CYMBL
F0	SNARE ROLL H2
F#0	HI Q 2
G0	SNR NOISY 4
G#0	STICKS
A0	KICK 3
A#0	OPEN RIM SHT L
B0	KICK AN SHRT
C1	KICK ANALOG
C#1	SIDE STCK AN
D1	SNARE ANALOG
D#1	HAND CLAP ANALOG
E1	SNR ANALOG2
F1	TOM ANALOG 1
F#1	HH CLOSE AN
G1	TOM ANALOG 2
G#1	HAT CLS AN2
A1	TOM ANALOG 3
A#1	HATOPEN AN
B1	TOM ANALOG 4
C2	TOM ANALOG 5
C#2	CRASH ANALOG
D2	TOM ANALOG 6
D#2	RIDE CYMBL 1
E2	CHINESE CYM
F2	RIDE CYM CUP
F#2	TAMBOURINE
G2	SPLASH CYM
G#2	COWBELL ANLG
A2	CRASH CYMBL2
A#2	VIBRASLAP
B2	RIDE CYMBL 2
C3	BONGO H
C#3	BONGO L
D3	CONGA ANLG H
D#3	CONGA ANLG M
E3	CONGA ANLG L
F3	TIMBALE H
F#3	TIMBALE L
G3	AGOGO H
G#3	AGOGO L
A3	CABASA
A#3	MARACAS 2
B3	SAMBA WHSL H
C4	SAMBA WHSL L
C#4	GUIRO SHORT
D4	GUIRO LONG
D#4	CLAVES 2
E4	WOOD BLOCK H
F4	WOOD BLOCK L
F#4	SCRATCH H 2
G4	SCRATCH L 4
G#4	TRIANGLE MT
A4	TRIANGLE OPN
A#4	SHAKER
B4	JINGLE BELLS
C5	BELL TREE
C#5	
D5	
D#5	
E5	
F5	
F#5	
G5	

Dance

Note	Wave Name
C#-1	KICK DANCE 1
D-1	KICK DANCE 2
D#-1	HI Q DANCE 2
E-1	WHIP SLAP Dance
F-1	SCRATCH DNC1
F#-1	SCRATCH DNC2
G-1	FINGER SNAP
G#-1	CLICK NOISE
A-1	DANCE PERC 1
A#-1	REVERS DNC 1
B-1	DANCE PERC 2
C0	HI Q DANCE 1
C#0	SNR ANALOG 3
D0	VINYL NOISE
D#0	SNR ANALOG 4
E0	REVERS CYMBL
F0	REVERS DNC 2
F#0	HI Q DANCE 3
G0	SNARE TECHNO
G#0	SNARE DANCE1
A0	KCK TECHNO Q
A#0	RIM GATE
B0	KCK TECHNO L
C1	KICK TECHNO
C#1	SIDE STCK AN
D1	SNARE CLAP
D#1	DANCE CLAP
E1	SNARE DRY
F1	TOM ANALOG 1
F#1	HI-HAT CLS 3
G1	TOM ANALOG 2
G#1	HAT CLS AN 3
A1	TOM ANALOG 3
A#1	HI-HAT OPN 3
B1	TOM ANALOG 4
C2	TOM ANALOG 5
C#2	CRASH ANALOG
D2	TOM ANALOG 6
D#2	RIDE CYMBL 1
E2	CHINESE CYM
F2	RIDE CYM CUP
F#2	TMBL ANALOG
G2	SPLASH CYM 2
G#2	COWBELL ANLG
A2	CRASH CYMBL5
A#2	VIBRASLAP AN
B2	RIDE ANALOG
C3	BONGO ANLG H
C#3	BONGO ANLG L
D3	CONGA ANLG H
D#3	CONGA ANLG M
E3	CONGA ANLG L
F3	TIMBALE H
F#3	TIMBALE L 2
G3	AGOGO H
G#3	AGOGO L
A3	CABASA
A#3	MARACAS 2
B3	SAMBA WHSL H
C4	SAMBA WHSL L
C#4	GUIRO SHORT
D4	GUIRO LONG
D#4	CLAVES 2
E4	DANCE PERC 3
F4	DANCE PERC 4
F#4	DANCE BRTH 1
G4	DANCE BRTH 2
G#4	TRIANGLE MT
A4	TRIANGLE OPN
A#4	SHAKER 2
B4	JINGLE BELLS
C5	BELL TREE
C#5	
D5	
D#5	
E5	
F5	
F#5	
G5	

Jazz

Note	Wave Name
C#-1	SURDO MUTE
D-1	SURDO OPEN
D#-1	HI Q
E-1	WHIP SLAP
F-1	SCRATCH H
F#-1	SCRATCH L
G-1	FINGER SNAP
G#-1	CLICK NOISE
A-1	MTRNM CLICK
A#-1	MTRNM BELL
B-1	SEQ CLICK L
C0	SEQ CLICK H
C#0	BRUSH TAP
D0	BRUSH SWIRL
D#0	BRUSH SLAP
E0	BRSH TP SWRL
F0	SNARE ROLL H2
F#0	CASTANET
G0	SNARE JAZZ H
G#0	STICKS
A0	KICK SOFT
A#0	OPEN RIM SHT L
B0	KICK TIGHT 3
C1	KICK JAZZ
C#1	SIDE STICK
D1	SNARE JAZZ L
D#1	HAND CLAP
E1	SNARE JAZZ M
F1	FLOOR TOM JAZZ L
F#1	HI-HAT CLOSE
G1	FLOOR TOM JAZZ H
G#1	HI-HAT PEDAL
A1	LOW TOM JAZZ
A#1	HI-HAT OPEN
B1	MID TOM JAZZ L
C2	MID TOM JAZZ H
C#2	CRASH CYMBL1
D2	HIGH TOM
D#2	RIDE CYMBL 1
E2	CHINESE CYM
F2	RIDE CYM CUP
F#2	TAMBOURINE
G2	SPLASH CYM
G#2	COWBELL
A2	CRASH CYMBL2
A#2	VIBRASLAP
B2	RIDE CYMBL 2
C3	BONGO H
C#3	BONGO L
D3	CONGA H MUTE
D#3	CONGA H OPEN
E3	CONGA L
F3	TIMBALE H
F#3	TIMBALE L
G3	AGOGO H
G#3	AGOGO L
A3	CABASA
A#3	MARACAS
B3	SAMBA WHSL H
C4	SAMBA WHSL L
C#4	GUIRO SHORT
D4	GUIRO LONG
D#4	CLAVES
E4	WOOD BLOCK H
F4	WOOD BLOCK L
F#4	CUICA MUTE
G4	CUICA OPEN
G#4	TRIANGLE MT
A4	TRIANGLE OPN
A#4	SHAKER
B4	JINGLE BELLS
C5	BELL TREE
C#5	
D5	
D#5	
E5	
F5	
F#5	
G5	

Effect Type List

Category		Effect Type Name	Type (HEX)		Block		
			MSB	LSB	REV	CHO	INS
	---	Thru	00	00			O
REVERB							
	REV	Rich Hall	01	00	O		
	REV	Rich Plate	01	01	O		
	REV	Rich Room	01	02	O		
	REV	Woody Room	01	03	O		
	REV	Room 1	01	04	O		
	REV	Room 2	01	05	O		
	REV	Stage 1	01	06	O		
	REV	Stage 2	01	07	O		
	REV	NHall	01	08	O		
	REV	NRoom	01	09	O		
	REV	NPlate	01	0A	O		
DELAY							
	DLY	Cross Delay	02	00			O
	DLY	Tempo Cross Delay	02	10		O	O
	DLY	Tempo Delay Mono	02	20		O	O
	DLY	Tempo Delay Stereo	02	28		O	O
	DLY	Delay LR	02	40			O
	DLY	Delay LCR	02	50			O
	DLY	Delay LR (Stereo)	02	48			O
CHORUS							
	CHO	G Chorus	03	00		O	O
	CHO	2 Modulator	03	10		O	O
	CHO	SPX Chorus	03	20		O	O
	CHO	Ensemble Detune	03	40		O	O
FLANGER							
	FLG	Classic Flanger	04	10			O
	FLG	Tempo Flanger	04	20		O	O
PHASER							
	PHA	Tempo Phaser	05	20		O	O
TOREMOLO&ROTARY							
	T&R	Auto Pan	06	00			O
	T&R	Tremolo	06	10			O
	T&R	Rotary Speaker	06	20			O
DISTORTION							
	DST	Amp Simulator 1	07	00			O
	DST	Amp Simulator 2	07	10			O
	DST	Comp Distortion	07	20			O
	DST	Comp Distortion Delay	07	30			O
COMPRESSOR							
	CMP	VCM Compressor 376	08	00			O
	CMP	Classic Compressor	08	10			O
	CMP	Multi Band Comp	08	20			O
LO-FI							
	L-F	Noisy	0B	10			O
	L-F	Digital Turntable	0B	20			O
TECH							
	TEC	Ring Modulator	0C	00			O
	TEC	Auto Synth	0C	30			O
	TEC	Isolator	0C	40			O
	TEC	Tech Modulation	0C	60			O
MISC							
	MSC	Damper Resonance	0D	30			O
	MSC	Damper Resonance 2	0D	31			O
	MSC	VCM EQ 501	0D	00			O
	MSC	Harmonic Enhancer	0D	10			O
	MSC	Talking Modulator	0D	20			O
	MSC	Pitch Change	0D	40			O
	MSC	Early Reflection	0D	50			O

Category		Effect Type Name	Type (HEX)		Block		
			MSB	LSB	REV	CHO	INS
PRE AMPS							
	PRE	Pre Amp 71Rd I	10	00			O
	PRE	Pre Amp 73Rd I	10	01			O
	PRE	Pre Amp 75Rd I	10	02			O
	PRE	Pre Amp 78Rd II	11	00			O
	PRE	Pre Amp Dyno	12	00			O
	PRE	Pre Amp 69Wr	13	00			O
	PRE	Pre Amp 77Wr	13	01			O
	PRE	Pre Amp Cp	14	00			O
	PRE	Pre Amp Cp88	14	01			O
	PRE	Mic 2Band-1	15	05			O
	PRE	Mic 2Band-2	15	06			O
	PRE	Mic 2Band-3	15	07			O
	PRE	Mic 3Band-1	15	08			O
	PRE	Mic 3Band-2	15	09			O
	PRE	Mic 3Band-3	15	0A			O
	PRE	Line	16	00			O
MOD EFFECT							
	MOD	Small Phaser	20	00			O
	MOD	MAX90	21	00			O
	MOD	MAX100	22	00			O
	MOD	Flanger	23	00			O
	MOD	Touch Wah	24	00			O
	MOD	Pedal Wah	25	00			O
	MOD	Chorus	26	00			O
	MOD	D Chorus	27	00			O
	MOD	Symphonic	29	00			O

Effect Parameter List

Parameters marked with a dot (●) in the "Ctrl" column can be controlled from an FC1 (Foot Controller 1) etc.

Reverb Block

- **Rich Hall**
- **Rich Plate**
- **Rich Room**
- **Room 1**
- **Room 2**
- **Stage 1**
- **Stage 2**

No.	Parameter	Range	Value	Table No.	Ctrl
1	Reverb Time	0.3s – 30.0s	0 – 69	4	
2	—				
3	—				
4	HPF Cutoff Frequency	20Hz – 8.0kHz	0 – 52	3	
5	—				
6	—				
7	—				
8	—				
9	—				
10	—				
11	—				
12	—				
13	—				
14	Feedback High Damp	0.1 – 1.0	1 – 10		
15	—				
16	—				

- **Woody Room**

No.	Parameter	Range	Value	Table No.	Ctrl
1	Reverb Time	0.3s – xy.zs (*1)	0 – 69	26	
2	—				
3	—				
4	HPF Cutoff Frequency	20Hz – 8.0kHz	0 – 52	3	
5	—				
6	—				
7	—				
8	—				
9	—				
10	—				
11	—				
12	—				
13	—				
14	—				
15	—				
16	—				

*1 For details, refer to *Effect Data Assign Table.*

- **NHall**
- **NRoom**
- **NPlate**

No.	Parameter	Range	Value	Table No.	Ctrl
1	RevTime	0.3s – 30.0s	0 – 69	4	
2	Plate Type	Clear, Dark	0 – 2		
3	Initial Delay	0.1ms – 200.0ms	0 – 127	5	
4	High Damp	1.0kHz – 20.0kHz	34 – 60	3	
5	—				
6	High Ratio	0.1 – 1.0	1 – 10		
7	—				
8	—				
9	—				
10	—				
11	—				
12	—				
13	EQ Low Frequency	22Hz – 1.0kHz	1 – 34	3	
14	EQ Low Gain	-12dB – 0dB – +12dB	52 – 76		
15	EQ High Frequency	500Hz – 18.0kHz	28 – 59	3	
16	EQ High Gain	-12dB – 0dB – +12dB	52 – 76		

Chorus/Insertion Block

In the Chorus Block, the *Dry/Wet Balance* and *Mix* parameters are not available.
For the effect types available for each block, refer to *Effect Type List.*

- **Thru**

When this type is selected, no parameters are available.

Category – DELAY

- **Cross Delay**

No.	Parameter	Range	Value	Table No.	Ctrl
1	Delay Time L>R	0.1ms – 1638.3ms	1 – 16383		
2	Delay Time R>L	0.1ms – 1638.3ms	1 – 16383		
3	Feedback Level	-63 – +63	1 – 127		
4	Input Select	L, R, L&R	0 – 2		
5	Feedback High Damp	0.1 – 1.0	1 – 10		
6	—				
7	—				
8	—				
9	—				
10	Dry/Wet Balance	D63>W – D=W – D<W63	1 – 127		●
11	—				
12	—				
13	EQ Low Frequency	32Hz – 2.0kHz	4 – 40	3	
14	EQ Low Gain	-12dB – +12dB	52 – 76		
15	EQ High Frequency	500Hz – 16.0kHz	28 – 58	3	
16	EQ High Gain	-12dB – +12dB	52 – 76		

- **Tempo Cross Delay**

No.	Parameter	Range	Value	Table No.	Ctrl
1	Delay Time L>R	32nd/3 – 4thx6	0 – 19	14	
2	Delay Time R>L	32nd/3 – 4thx6	0 – 19	14	
3	Feedback Level	-63 – +63	1 – 127		
4	Input Select	L, R, L&R	0 – 2		
5	Feedback High Damp	0.1 – 1.0	1 – 10		
6	Lag	-63ms – +63ms	1 – 127		
7	—				
8	—				
9	—				
10	Dry/Wet Balance	D63>W – D=W – D<W63	1 – 127		●
11	—				
12	—				

13–16: Same as the parameters shaded in gray in Cross Delay above.

- **Tempo Delay Mono**
- **Tempo Delay Stereo**

No.	Parameter	Range	Value	Table No.	Ctrl
1	Delay Time	32nd/3 – 4thx6	0 – 19	14	
2	Feedback Level	-63 – +63	1 – 127		
3	Feedback High Damp	0.1 – 1.0	1 – 10		
4	L/R Diffusion	-63ms – +63ms	1 – 127		
5	Lag	-63ms – +63ms	1 – 127		
6	—				
7	—				
8	—				
9	—				
10	Dry/Wet Balance	D63>W – D=W – D<W63	1 – 127		●
11	—				
12	—				

13–16: Same as the parameters shaded in gray in Cross Delay above.

- **Delay L, R**

No.	Parameter	Range	Value	Table No.	Ctrl
1	Delay Time L	0.1ms – 1638.3ms	1 – 16383		
2	Delay Time R	0.1ms – 1638.3ms	1 – 16383		
3	Feedback Time 1	0.1ms – 1638.3ms	1 – 16383		
4	Feedback Time 2	0.1ms – 1638.3ms	1 – 16383		
5	Feedback Level	-63 – +63	1 – 127		
6	Feedback High Damp	0.1 – 1.0	1 – 10		
7	—				
8	—				
9	—				
10	Dry/Wet Balance	D63>W – D=W – D<W63	1 – 127		●
11	—				
12	—				

13–16: Same as the parameters shaded in gray in Cross Delay above.

• Delay L, C, R

No.	Parameter	Range	Value	Table No.	Ctrl
1	Delay Time L	0.1ms – 1638.3ms	1 – 16383		
2	Delay Time R	0.1ms – 1638.3ms	1 – 16383		
3	Delay Time C	0.1ms – 1638.3ms	1 – 16383		
4	Feedback Time	0.1ms – 1638.3ms	1 – 16383		
5	Feedback Level	-63 – +63	1 – 127		
6	Delay Level C	0 – 127	0 – 127		
7	Feedback High Damp	0.1 – 1.0	1 – 10		
8	—				
9	—				
10	Dry/Wet Balance	D63>W – D=W – D<W63	1 – 127		●
11	—				
12	—				
13–16: Same as the parameters shaded in gray in Cross Delay on page 17.					

• Delay L, R (STEREO)

No.	Parameter	Range	Value	Table No.	Ctrl
1	Delay Time L	0.1ms – 1638.3ms	1 – 16383		
2	Delay Time R	0.1ms – 1638.3ms	1 – 16383		
3	Feedback Time L	0.1ms – 1638.3ms	1 – 16383		
4	Feedback Time R	0.1ms – 1638.3ms	1 – 16383		
5	Feedback Level	-63 – +63	1 – 127		
6	Feedback High Damp	0.1 – 1.0	1 – 10		
7	—				
8	—				
9	—				
10	Dry/Wet Balance	D63>W – D=W – D<W63	1 – 127		●
11	—				
12	—				
13–16: Same as the parameters shaded in gray in Cross Delay onpage 17.					

Category – CHORUS

• G Chorus

No.	Parameter	Range	Value	Table No.	Ctrl
1	LFO Speed	0.0Hz – 39.70Hz	0 – 127	1	
2	—				
3	PM Depth	0 – 127	0 – 127		
4	Feedback Level	-63 – +63	1 – 127		
5	Delay Offset	0.0ms – 50.0ms	0 – 127	2	
6–9: Same as the parameters shaded in gray in Cross Delay on page 17.					
10	Dry/Wet Balance	D63>W – D=W – D<W63	1 – 127		●
11	EQ Mid Frequency (*2)	100Hz – 10.0kHz	14 – 54	3	
12	EQ Mid Gain (*2)	-12dB – +12dB	52 – 76		
13	EQ Mid Width (*2)	0.1 – 12.0	1 – 120		
14	—				
15	Input Mode	Mono, Stereo	0 – 1		
16	—				

*2 Insertion Block only.

• 2 Modulator

No.	Parameter	Range	Value	Table No.	Ctrl
1	LFO Speed	0.0Hz – 39.70Hz	0 – 127	1	
2	AM Depth	0 – 127	0 – 127		
3	PM Depth	0 – 127	0 – 127		
4	Feedback Level	-63 – +63	1 – 127		
5	Delay Offset	0.0ms – 50.0ms	0 – 127	2	
6–9: Same as the parameters shaded in gray in Cross Delay on page 17.					
10	Dry/Wet Balance	D63>W – D=W – D<W63	1 – 127		●
11	EQ Mid Frequency (*2)	100Hz – 10.0kHz	14 – 54	3	
12	EQ Mid Gain (*2)	-12dB – +12dB	52 – 76		
13	EQ Mid Width (*2)	0.1 – 12.0	1 – 120		
14	—				
15	Input Mode	Mono, Stereo	0 – 1		
16	—				

*2 Insertion Block only.

• SPX Chorus

No.	Parameter	Range	Value	Table No.	Ctrl
1	LFO Speed	0.0Hz – 39.70Hz	0 – 127	1	
2	LFO Depth	0 – 127	0 – 127		
3	Feedback Level	-63 – +63	1 – 127		
4	Delay Offset	0.0ms – 50.0ms	0 – 127	2	
5	—				
6–9: Same as the parameters shaded in gray in Cross Delay on page 17.					
10	Dry/Wet Balance	D63>W – D=W – D<W63	1 – 127		●
11	EQ Mid Frequency (*2)	100Hz – 10.0kHz	14 – 54	3	
12	EQ Mid Gain (*2)	-12dB – +12dB	52 – 76		
13	EQ Mid Width (*2)	0.1 – 12.0	1 – 120		
14	—				
15	Input Mode	Mono, Stereo	0 – 1		
16	—				

*2 Insertion Block only.

• Ensemble Detune

No.	Parameter	Range	Value	Table No.	Ctrl
1	Detune	-50cent – +50cent	14 – 114		
2	Initial Delay Lch	0.0ms – 50.0ms	0 – 127	2	
3	Initial Delay Rch	0.0ms – 50.0ms	0 – 127	2	
4	Spread	0 – 63	0 – 63		
5	—				
6	—				
7	—				
8	—				
9	—				
10	Dry/Wet Balance	D63>W – D=W – D<W63	1 – 127		●
11–14: Same as the parameters shaded in gray in Cross Delay on page 17.					
15	—				
16	—				

Category – FLANGER

• Classic Flanger

No.	Parameter	Range	Value	Table No.	Ctrl
1	LFO Speed	0.0Hz – 39.70Hz	0 – 127	1	
2	LFO Depth	0 – 127	0 – 127		
3	LFO Wave	Triangle, Sine	0 – 1		
4	Delay Offset	0.09 – 36.21ms	0 – 139	20	
5	Feedback Level	-100 – +100%	0 – 200		
6–9: Same as the parameters shaded in gray in Cross Delay on page 17.					
10	Dry/Wet Balance	D63>W – D=W – D<W63	1 – 127		●
11	EQ Mid Frequency	100Hz – 10.0kHz	14 – 54	3	
12	EQ Mid Gain	-12dB – +12dB	52 – 76		
13	EQ Mid Width	0.1 – 12.0	1 – 120		
14	Modulation Phase	-180 – +180	0 – 16	21	
15	Feedback High Damp	0.1 – 1.0	1 – 10		
16	Analog Feel	0 – 10	0 – 10		

• Tempo Flanger

No.	Parameter	Range	Value	Table No.	Ctrl
1	LFO Speed	16th – 4thx16	5 – 29	14	
2	LFO Depth	0 – 127	0 – 127		
3	Feedback Level	-63 – +63	1 – 127		
4	Delay Offset	0.0ms – 50.0ms	0 – 127	2	
5	—				
6–9: Same as the parameters shaded in gray in Cross Delay on page 17.					
10	Dry/Wet Balance	D63>W – D=W – D<W63	1 – 127		●
11	EQ Mid Frequency (*2)	100Hz – 10.0kHz	14 – 54	3	
12	EQ Mid Gain (*2)	-12dB – +12dB	52 – 76		
13	EQ Mid Width (*2)	0.1 – 12.0	1 – 120		
14	LFO Phase difference	-180deg – +180deg	4 – 124		
15	—				
16	—				

*2 Insertion Block only.

Category – PHASER

• Tempo Phaser

No.	Parameter	Range	Value	Table No.	Ctrl
1	LFO Speed	16th – 4thx16	5 – 29	14	
2	LFO Depth	0 – 127	0 – 127		
3	Phase Shift Offset	0 – 127	0 – 127		
4	Feedback Level	-63 – +63	1 – 127		
5	—				
6–9: Same as the parameters shaded in gray in Cross Delay on page 17.					
10	Dry/Wet Balance	D63>W – D=W – D<W63	1 – 127		●
11	Stage	4 – 22 (Chorus Block: 4 – 12)	4 – 22 4 – 12		
12	Diffusion	Mono, Stereo	0 – 1		
13	—				
14	—				
15	—				
16	—				

Category – TREMOLO&ROTARY

• Auto Pan

No.	Parameter	Range	Value	Table No.	Ctrl
1	LFO Speed	0.0Hz – 39.70Hz	0 – 127	1	●
2	L/R Depth	0 – 127	0 – 127		
3	F/R Depth	0 – 127	0 – 127		
4	Pan Direction	L<>R, L>>R, L<<R, L Turn, R Turn, L/R	0 – 5		
5	LFO Wave	0 – 28	0 – 28		
6–9: Same as the parameters shaded in gray in Cross Delay on page 17.					
10	—				
11	EQ Mid Frequency	100Hz – 10.0kHz	14 – 54	3	
12	EQ Mid Gain	-12dB – +12dB	52 – 76		
13	EQ Mid Width	0.1 – 12.0	1 – 120		
14	—				
15	Input Mode	Mono, Stereo	0 – 1		
16	—				

• Tremolo

No.	Parameter	Range	Value	Table No.	Ctrl
1	LFO Speed	0.0Hz – 39.70Hz	0 – 127	1	●
2	AM Depth	0 – 127	0 – 127		
3	PM Depth	0 – 127	0 – 127		
4	—				
5	—				
6–9: Same as the parameters shaded in gray in Cross Delay on page 17.					
10	—				
11	EQ Mid Frequency	100Hz – 10.0kHz	14 – 54	3	
12	EQ Mid Gain	-12dB – +12dB	52 – 76		
13	EQ Mid Width	0.1 – 12.0	1 – 120		
14	LFO Phase Difference	-180deg – +180deg	4 – 124		
15	Input Mode	Mono, Stereo	0 – 1		
16	—				

• Rotary Speaker

No.	Parameter	Range	Value	Table No.	Ctrl
1	Rotor Speed Slow	0.0Hz – 2.65Hz	0 – 63	1	
2	Horn Speed Slow	0.0Hz – 2.65Hz	0 – 63	1	
3	Rotor Speed Fast	2.69Hz – 39.70Hz	64 – 127	1	
4	Horn Speed Fast	2.69Hz – 39.70Hz	64 – 127	1	
5	Slow-Fast Time of Rotor	0 – 127	0 – 127		
6	Slow-Fast Time of Horn	0 – 127	0 – 127		
7	Drive Rotor	0 – 127	0 – 127		
8	Drive Horn	0 – 127	0 – 127		
9	Rotor/Horn Balance	R63>H – R=H – R<H63	1 – 127		
10	—				
11–14: Same as the parameters shaded in gray in Cross Delay on page 17.					
15	Mic L-R Angle	0deg – 180deg	0 – 60		
16	Speed Control	Slow, Fast	0 – 1		●*3

*3 This parameter cannot be controlled using the pitch bend wheel.

Category – DISTORTION

• Amp Simulator 1

No.	Parameter	Range	Value	Table No.	Ctrl
1	Overdrive	0 – 100%	0 – 100		●
2	Device	Transistor, Vintage Tube, Distortion1, Distortion2, Fuzz	0 – 4		
3	Speaker Type	Flat, Stack, Combo, Twin, Radio, Megaphone	0 – 5		
4	Presence	-10 – +10	0 – 20		
5	Output Level	0 – 100%	0 – 100		
6	—				
7	—				
8	—				
9	—				
10	Dry/Wet Balance	D63>W – D=W – D<W63	1 – 127		
11	—				
12	—				
13	—				
14	—				
15	—				
16	—				

• Amp Simulator 2

No.	Parameter	Range	Value	Table No.	Ctrl
1	Overdrive	0 – 127	0 – 127		●
2	AMP Type	Off, Stack, Combo, Tube, Crunch, Hi Gain, British	0 – 6		
3	LPF Cutoff Frequency	1.0kHz – 20.0kHz	34 – 60	3	
4	Output Level	0 – 127	0 – 127		
5	—				
6	—				
7	—				
8	—				
9	—				
10	Dry/Wet Balance	D63>W – D=W – D<W63	1 – 127		
11	—				
12	—				
13	—				
14	—				
15	—				
16	—				

• Comp Distortion

No.	Parameter	Range	Value	Table No.	Ctrl
1	Overdrive	0 – 127	0 – 127		●
2	EQ Low Frequency	32Hz – 2.0kHz	4 – 40	3	
3	EQ Low Gain	-12dB – +12dB	52 – 76		
4	LPF Cutoff Frequency	1.0kHz – 20.0kHz	34 – 60	3	
5	Output Level	0 – 127	0 – 127		
6	—				
7	EQ Mid Frequency	100Hz – 10.0kHz	14 – 54	3	
8	EQ Mid Gain	-12dB – +12dB	52 – 76		
9	EQ Mid Width	0.1 – 12.0	1 – 120		
10	Dry/Wet Balance	D63>W – D=W – D<W63	1 – 127		
11	Edge	0 – 127	0 – 127		
12	Attack	1ms – 40ms	0 – 19	8	
13	Release	10ms – 680ms	0 – 15	9	
14	Threshold	-48dB – -6dB	79 – 121		
15	Ratio	1.0 – 20.0	0 – 7	10	
16	—				

• **Comp Distortion Delay**

No.	Parameter	Range	Value	Table No.	Ctrl
1	Overdrive	0 – 100%	0 – 100		●
2	Device	Transistor, Vintage Tube, Distortion1, Distortion2, Fuzz	0 – 4		
3	Speaker Type	Flat, Stack, Combo, Twin, Radio, Megaphone	0 – 5		
4	Presence	-10 – 10	0 – 20		
5	Output Level	0 – 100%	0 – 100		
6	Delay Time L	0.1ms – 1638.3ms	1 – 16383		
7	Delay Time R	0.1ms – 1638.3ms	1 – 16383		
8	Feedback Time	0.1ms – 1638.3ms	1 – 16383		
9	Feedback Level	-63 – +63	1 – 127		
10	Dry/Wet Balance	D63>W – D=W – D<W63	1 – 127		
11	Delay Mix	0 – 127	0 – 127		
12	Feedback High Damp	0.1 – 1.0	1 – 10		
13	Compress	-48dB – -6dB	79 – 121		
14	—				
15	—				
16	—				

Category – COMPRESSOR

• **VCM Compressor 376**

No.	Parameter	Range	Value	Table No.	Ctrl
1	Drive	0 – 100	0 – 100		
2	Output	0 – 127	0 – 127		
3	Ratio	2, 4, 8, 12, 20	0 – 4		
4	Attack	0.022ms – 50.40ms	0 – 200	29	
5	Release	10.88ms – 544.22ms	0 – 200	30	
6	—				
7	—				
8	—				
9	—				
10	—				
11	—				
12	—				
13	—				
14	—				
15	—				
16	—				

• **Classic Compressor**

No.	Parameter	Range	Value	Table No.	Ctrl
1	Attack	1ms – 40ms	0 – 19	8	
2	Release	10ms – 680ms	0 – 15	9	
3	Threshold	-48dB – -6dB	79 – 121		
4	Ratio	1.0 – 20.0	0 – 7	10	
5	Output Level	0 – 127	0 – 127		
6	—				
7	—				
8	—				
9	—				
10	—				
11	—				
12	—				
13	—				
14	—				
15	—				
16	—				

• **Multi Band Comp**

No.	Parameter	Range	Value	Table No.	Ctrl
1	Low Attack	1ms – 200ms	0 – 29	8	
2	Low Threshold	-54dB – -6dB	73 – 121		
3	Low Ratio	1.0 – 20.0	0 – 7	10	
4	Low Gain	-∞ – +18dB	0 – 55	15	
5	Mid Attack	1ms – 200ms	0 – 29	8	
6	Mid Threshold	-54dB – -6dB	73 – 121		
7	Mid Ratio	1.0 – 20.0	0 – 7	10	
8	Mid Gain	-∞ – +18dB	0 – 55	15	
9	High Attack	1ms – 200ms	0 – 29	8	
10	High Threshold	-54dB – -6dB	73 – 121		
11	High Ratio	1.0 – 20.0	0 – 7	10	
12	High Gain	-∞ – +18dB	0 – 55	15	
13	Divide Freq Low	16Hz – 20kHz	0 – 124	31	
14	Divide Freq High	16Hz – 20kHz	0 – 124	31	
15	Common Release	10ms – 3000ms	0 – 23	9	
16	—				

Category – LO-FI

• **Noisy**

No.	Parameter	Range	Value	Table No.	Ctrl
1	Mod Depth	0 – 10	0 – 10		●
2	Mod Speed	0 – 127	0 – 127		
3	Mod Feedback	-63 – +63	1 – 127		
4	Mod Mix Balance	1 – 127	1 – 127		
5	Drive	0 – 127	0 – 127		
6	AM Speed	0.00Hz – 39.7Hz	0 – 127	1	
7	AM Depth	0 – 127	0 – 127		
8	LPF Cutoff Frequency	1.0kHz – 20.0kHz	34 – 60	3	
9	LPF Resonance	1.0 – 12.0	10 – 120		
10	Dry/Wet Balance	D63>W – D=W – D<W63	1 – 127		
11	EQ Frequency	100Hz – 10.0kHz	14 – 54	3	
12	EQ Gain	-12dB – +12dB	52 – 76		
13	EQ Width	1.0 – 12.0	10 – 120		
14	—				
15	—				
16	—				

• **Digital Turntable**

No.	Parameter	Range	Value	Table No.	Ctrl
1	Click Density	0 – 5	0 – 5		
2	Click Level	0 – 127	0 – 127		
3	Noise Tone	0 – 6	0 – 6		
4	Noise Mod Speed	0.00Hz – 39.7Hz	0 – 127	1	●
5	Noise Mod Depth	0 – 127	0 – 127		
6	Dry Send to Noise	0 – 127	0 – 127		
7	Noise LPF Cutoff Frequency	1.0kHz – 20.0kHz	34 – 60	3	
8	Noise LPF Q	1.0 – 12.0	10 – 120		
9	Noise Level	0 – 127	0 – 127		
10	—				
11	Dry Level	0 – 127	0 – 127		
12	Dry LPF Cutoff Frequency	1.0kHz – 20.0kHz	34 – 60	3	
13	—				
14	—				
15	—				
16	—				

Category – TEC

• **Ring Modulator**

No.	Parameter	Range	Value	Table No.	Ctrl
1	OSC Frequency Coarse	0.5Hz – 5kHz	0 – 127	19	●
2	OSC Frequency Fine	0 – 127	0 – 127		
3	LFO Wave	Tri, Sine	0 – 1		
4	LFO Depth	0 – 127	0 – 127		
5	LFO Speed	0.0Hz – 39.70Hz	0 – 127	1	
6	HPF Cutoff Frequency	20Hz – 8.0kHz	0 – 52	3	
7	LPF Cutoff Frequency	1.0kHz – 20.0kHz	34 – 60	3	
8	—				
9	—				
10	Dry/Wet Balance	D63>W – D=W – D<W63	1 – 127		
11	—				
12	—				

13–16: Same as the parameters shaded in gray in Cross Delay on page 17.

• **Auto Synth**

No.	Parameter	Range	Value	Table No.	Ctrl
1	Mod Speed	0 – 127	0 – 127		●
2	Mod Wave Type	TypeA, TypeB, TypeC, TypeD	0 – 3		
3	Mod Depth	0 – 127	0 – 127		
4	Mod Depth Ofst R	-63 – +63	1 – 127		
5	HPF Cutoff Frequency	20Hz – 8.0kHz	0 – 52	3	
6	LPF Cutoff Frequency	1.0kHz – 20.0kHz	34 – 60	3	
7	Delay Time	0.1ms – 370.0ms	1 – 3700		
8	Delay Time Ofst R	0 – 884	0 – 884		
9	Delay Level	0 – 127	0 – 127		
10	Dry Mix Level	0 – 127	0 – 127		
11	Feedback Level	-63 – +63	1 – 127		
12	FB Level Ofst R	-63 – +63	1 – 127		
13	AM Speed	0.00Hz – 39.7Hz	0 – 127	1	
14	AM Wave	Tri, Sine, Saw Up, Saw Down	0 – 3		
15	AM Depth	0 – 127	0 – 127		
16	AM Inverse R	Normal, Inverse	0 – 1		

• Isolator

No.	Parameter	Range	Value	Table No.	Ctrl
1	On/off Switch	On, Off	0 – 1		●*3
2	Low Level	-64 – +63	0 – 127		
3	Mid Level	-64 – +63	0 – 127		
4	High Level	-64 – +63	0 – 127		
5	Low Mute	Off, On	0 – 1		
6	Mid Mute	Off, On	0 – 1		
7	High Mute	Off, On	0 – 1		
8	—				
9	—				
10	—				
11	—				
12	—				
13	—				
14	—				
15	—				
16	—				

*3 This parameter cannot be controlled using the pitch bend wheel.

• Tech Modulation

No.	Parameter	Range	Value	Table No.	Ctrl
1	Mod Speed	0 – 127	0 – 127		●
2	Mod Depth	0 – 127	0 – 127		
3	Mod Gain	-12 – +12dB	52 – 76		
4	Mod Mix Balance	D63>W – D=W – D<W63	1 – 127		
5	Pre Mod HPF Cutoff Frequency	20Hz – 8.0kHz	0 – 52	3	
6	Mod LPF Cutoff Frequency	1.0kHz – 20.0kHz	34 – 60	3	
7	Mod LPF Resonance	1.0 – 12.0	10 – 120		
8	Delay Time	0.1 – 740.0ms	1 – 7400		
9	Delay Time Ofst R	0 – 884	0 – 884		
10	Dry/Wet Balance	D63>W – D=W – D<W63	1 – 127		
11	Feedback Level	-63 – +63	1 – 127		
12	FB Level Ofst R	-63 – +63	1 – 127		
13	Feedback High Damp	0.1 – 1.0	1 – 10		
14	FB Hi Damp Ofst R	-0.9 – +0.9	1 – 19		
15	—				
16	—				

Category – MISC

• Damper Resonance
• Damper Resonance 2

No.	Parameter	Range	Value	Table No.	Ctrl
1	HPF Cutoff Frequency	20Hz – 8.0kHz	0 – 52	3	
2	LPF Cutoff Frequency	1.0kHz – 20.0kHz	34 – 60	3	
3	EQ Low Frequency	32Hz – 2.0kHz	4 – 40	3	
4	EQ Low Gain	-12 – +12dB	52 – 76		
5	Hi Resonance	0.1 – 1.0	1 – 10		
6	Pedal Response	slow, normal, fast	0 – 2		
7	—				
8	—				
9	—				
10	Dry/Wet Balance	D63>W – D=W – D<W63	1 – 127		
11	—				
12	—				
13	—				
14	—				
15	—				
16	Damper Control	0 – 127	0 – 127		●

• VCM EQ 501

No.	Parameter	Range	Value	Table No.	Ctrl
1	EQ1 (LSH) Frequency	31.5Hz – 2.0kHz	12 – 84	34	
2	EQ1 (LSH) Gain	-12.0dB – +12.0dB	60 – 300		
3	EQ2 Q	0.50 – 16.00	0 – 60	36	
4	EQ2 Frequency	50.0 Hz – 20.0kHz	20 – 124	34	
5	EQ2 Gain	-18.0dB – +18.0dB	0 – 360		
6	EQ3 Q	0.50 – 16.00	0 – 60	36	
7	EQ3 Frequency	50.0 Hz – 20.0kHz	20 – 124	34	
8	EQ3 Gain	-18.0dB – +18.0dB	0 – 360		
9	EQ4 Q	0.50 – 16.00	0 – 60	36	
10	EQ4 Frequency	50.0 Hz – 20.0kHz	20 – 124	34	
11	EQ4 Gain	-18.0dB – +18.0dB	0 – 360		
12	EQ5 (HSH) Frequency	500Hz – 20.0kHz	60 – 124	34	
13	EQ5 (HSH) Gain	-12.0dB – +12.0dB	60 – 300		
14	Output Level	-12.0dB – +12.0dB	60 – 300		
15	—				
16	—				

• Harmonic Enhancer

No.	Parameter	Range	Value	Table No.	Ctrl
1	HPF Cutoff Frequency	500Hz – 16.0kHz	28 – 58	3	
2	Drive	0 – 127	0 – 127		
3	Mix Level	0 – 127	0 – 127		
4	—				
5	—				
6	—				
7	—				
8	—				
9	—				
10	—				
11	—				
12	—				
13	—				
14	—				
15	—				
16	—				

• Talking Modulator

No.	Parameter	Range	Value	Table No.	Ctrl
1	Vowel	a, i, u, e, o	0 – 4		●
2	Move Speed	1 – 62	1 – 62		
3	Drive	0 – 127	0 – 127		
4	Output Level	0 – 127	0 – 127		
5	—				
6	—				
7	—				
8	—				
9	—				
10	—				
11	—				
12	—				
13	—				
14	—				
15	—				
16	—				

• Pitch Change

No.	Parameter	Range	Value	Table No.	Ctrl
1	Pitch 1	-24 – +24	40 – 88		
2	Fine 1	-50 – +50	14 – 114		
3	Initial Delay 1	0.1ms – 400.0ms	0 – 127	7	
4	Feedback Level 1	-63 – +63	1 – 127		
5	Pitch 2	-24 – +24	40 – 88		
6	Fine 2	-50 – +50	14 – 114		
7	Initial Delay 2	0.1ms – 400.0ms	0 – 127	7	
8	Feedback Level 2	-63 – +63	1 – 127		
9	—				
10	Dry/Wet Balance	D63>W – D=W – D<W63	1 – 127		●
11	Pan 1	L63 – C – R63	1 – 127		
12	Output Level1	0 – 127	0 – 127		
13	Pan 2	L63 – C – R63	1 – 127		
14	Output Level2	0 – 127	0 – 127		
15	—				
16	—				

• Early Reflection

No.	Parameter	Range	Value	Table No.	Ctrl
1	Type	S-hall, L-hall, Random, Reverse, Plate, Spring	0 – 5		
2	Room Size	0.1 – 20.0	0 – 127	6	
3	Diffusion	0 – 10	0 – 10		
4	Initial Delay	0.1ms – 200.0ms	0 – 127	5	
5	Feedback Level	-63 – +63	1 – 127		
6	HPF Cutoff Frequency	20Hz – 8.0kHz	0 – 52	3	
7	LPF Cutoff Frequency	1.0kHz – 20.0kHz	34 – 60	3	
8	—				
9	—				
10	Dry/Wet Balance	D63>W – D=W – D<W63	1 – 127		●
11	Liveness	0 – 10	0 – 10		
12	Density	0 – 3	0 – 3		
13	Feedback High Damp	0.1 – 1.0	1 – 10		
14	—				
15	—				
16	—				

Category – PRE AMPS

- **Pre Amp 71Rd I**
- **Pre Amp 73Rd I**
- **Pre Amp 75Rd I**

No.	Parameter	Range	Value	Table No.	Ctrl
1	Bass	-10.0 – +10.0	0 – 50		
2	Treble	-10.0 – +10.0	0 – 50		
3	Vibrato Depth	0 – 10.0	0 – 50		
4	Vibrato Speed	0 – 10.0	0 – 50		
5	Volume	0 – 127	0 – 127		
6	—				
7	—				
8	—				
9	—				
10	—				
11	—				
12	—				
13	—				
14	—				
15	Input Gain	-18.0dB – +4.0dB	28 – 72		
16	Vibrato On	Off, On	0 – 1		

- **Pre Amp 78Rd II**

No.	Parameter	Range	Value	Table No.	Ctrl
1	Bass	-10.0 – +10.0	0 – 50		
2	Treble	-10.0 – +10.0	0 – 50		
3	Vibrato Depth	0 – 10.0	0 – 50		
4	Vibrato Speed	0 – 10.0	0 – 50		
5	Volume	0 – 127	0 – 127		
6	—				
7	—				
8	—				
9	—				
10	—				
11	—				
12	—				
13	—				
14	—				
15	Input Gain	-18.0dB – +4.0dB	28 – 72		
16	Vibrato On	Off, On	0 – 1		

- **Pre Amp Dyno**

No.	Parameter	Range	Value	Table No.	Ctrl
1	Bass Boost	0 – 10.0	0 – 50		
2	Normal	0 – 10.0	0 – 50		
3	Overtone	0 – 10.0	0 – 50		
4	—				
5	Volume	0 – 127	0 – 127		
6	—				
7	—				
8	—				
9	—				
10	—				
11	—				
12	—				
13	—				
14	—				
15	Input Gain	-18.0dB – +4.0dB	28 – 72		
16	—				

- **Pre Amp 69Wr**
- **Pre Amp 77Wr**

No.	Parameter	Range	Value	Table No.	Ctrl
1	Bass	-10.0 – +10.0	0 – 50		
2	Mid Boost	0.0 – +10.0	0 – 50		
3	Treble	-10.0 – +10.0	0 – 50		
4	Vibrato Depth	0-10.0	0 – 50		
5	Volume	0 – 127	0 – 127		
6	—				
7	—				
8	—				
9	—				
10	—				
11	—				
12	—				
13	—				
14	—				
15	Input Gain	-18.0dB – +4.0dB	28 – 72		
16	Vibrato On	Off, On	0 – 1		

- **Pre Amp Cp**
- **Pre Amp Cp88**

No.	Parameter	Range	Value	Table No.	Ctrl
1	Bass	0 – 10.0	0 – 50		
2	Middle	0 – 10.0	0 – 50		
3	Treble	0 – 10.0	0 – 50		
4	Brilliance	low, medium, high	0 – 2		
5	Volume	0 – 127	0 – 127		
6	—				
7	—				
8	—				
9	—				
10	—				
11	—				
12	—				
13	—				
14	—				
15	Input Gain	-18.0dB – +4.0dB	28 – 72		
16	—				

- **Mic 2Band-1**
- **Mic 2Band-2**
- **Mic 2Band-3**

No.	Parameter	Range	Value	Table No.	Ctrl
1	Peak1 Q	0.5 – 16.0	0 – 60	36	
2	Peak1 Freq	63.0Hz – 2.8kHz	24 – 90	34	
3	Peak1 Gain	-12dB – 12dB	40 – 88		
4	Peak2 Q	0.5 – 16.0	0 – 60	36	
5	Peak2 Freq	400.0Hz – 18.0kHz	56 – 122	34	
6	Peak2 Gain	-12dB – 12dB	40 – 88		
7	Volume	0 – 127	0 – 127		
8	—				
9	—				
10	—				
11	—				
12	—				
13	—				
14	—				
15	Input Gain	-18.0dB – +4.0dB	28 – 72		
16	MicPre On	Off, On	0 – 1		

- **Mic 3Band-1**
- **Mic 3Band-2**
- **Mic 3Band-3**

No.	Parameter	Range	Value	Table No.	Ctrl
1	Base Freq	20.0Hz – 1.0kHz	4 – 72	34	
2	Bass Gain	-12.0dB – +12.0dB	40 – 88		
3	Mid Q	0.5 – 16.0	0 – 60	36	
4	Mid Freq	100.0Hz – 18.0kHz	32 – 122	34	
5	Mid Gain	-12.0dB – +12.0dB	40 – 88		
6	Treble Freq	500Hz – 20.0kHz	60 – 124	34	
7	Treble Gain	-12.0dB – +12.0dB	40 – 88		
8	Volume	0 – 127	0 – 127		
9	—				
10	—				
11	—				
12	—				
13	—				
14	—				
15	Input Gain	-18.0dB – +4.0dB	28 – 72		
16	MicPre On	Off, On	0 – 1		

- **Line**

No.	Parameter	Range	Value	Table No.	Ctrl
1	Low	-12.0dB – +12.0dB	40 – 88		
2	Low Middle	-12.0dB – +12.0dB	40 – 88		
3	High Middle	-12.0dB – +12.0dB	40 – 88		
4	High	-12.0dB – +12.0dB	40 – 88		
5	Volume	0 – 127	0 – 127		
6	—				
7	—				
8	—				
9	—				
10	—				
11	—				
12	—				
13	—				
14	—				
15	Input Gain	-18.0dB – +4.0dB	28 – 72		
16	LineAmp On	Off, On	0 – 1		

Category – MODULATION

• Small Phaser

No.	Parameter	Range	Value	Table No.	Ctrl
1	Rate	0.09Hz – 16.27Hz (When *Color* = 0) 0.06Hz – 11.07Hz (When *Color* = 1)	0 – 127	32, 33	●
2	Color	0, 1	0 – 1		
3	Drive	0-42	0 – 42		
4	—				
5	—				
6	—				
7	—				
8	—				
9	—				
10	—				
11	—				
12	—				
13	—				
13	—				
15	—				
16	—				

• MAX90

No.	Parameter	Range	Value	Table No.	Ctrl
1	Speed	0.1Hz – 10.0Hz	0 – 127	31	●
2	Type	1, 2	0 – 1		
3	Drive	0 – 127	0 – 127		
4	—				
5	—				
6	—				
7	—				
8	—				
9	—				
10	—				
11	—				
12	—				
13	—				
14	—				
15	—				
16	—				

• MAX100

No.	Parameter	Range	Value	Table No.	Ctrl
1	Speed	0.1Hz – 10.0Hz	0 – 127	31	●
2	Mode	1, 2, 3, 4	0 – 3		
3	—				
4	—				
5	—				
6	—				
7	—				
8	—				
9	—				
10	—				
11	—				
12	—				
13	—				
14	—				
15	—				
16	—				

• Flanger

No.	Parameter	Range	Value	Table No.	Ctrl
1	Speed	0.040Hz – 10.00Hz	0 – 235	22	
2	Manual	0 – 127	0 – 127		
3	Depth	0 – 127	0 – 127		
4	Feedback	0 – 127	0 – 127		
5	—				
6	—				
7	Mix	0 – 127	0 – 127		●
8	—				
9	—				
10	—				
11	—				
12	—				
13	—				
14	—				
15	—				
16	—				

• Touch Wah

No.	Parameter	Range	Value	Table No.	Ctrl
1	Sensitivity	0 – 127	0 – 127		●
2	Bottom	0 – 127	0 – 127		
3	Top	0 – 127	0 – 127		
4	Resonance Offset	-12.0 – +12.0	40 – 88		
5	—				
6	—				
7	Drive	0.0dB – +40.0dB	0 – 80		
8	—				
9	—				
10	—				
11	—				
12	—				
13	—				
14	—				
15	—				
16	—				

• Pedal Wah

No.	Parameter	Range	Value	Table No.	Ctrl
1	Pedal Control	0 – 127	0 – 127		●
2	Bottom	0 – 127	0 – 127		
3	Top	0 – 127	0 – 127		
4	Resonance Offset	-12.0 – +12.0	40 – 88		
5	—				
6	—				
7	Drive	0.0dB – +40.0dB	0 – 80		
8	—				
9	—				
10	—				
11	—				
12	—				
13	—				
14	—				
15	—				
16	—				

• Chorus

No.	Parameter	Range	Value	Table No.	Ctrl
1	Speed	0.040Hz – 10.00Hz	0 – 235	22	
2	—				
3	Depth	0 – 127	0 – 127		
4	—				
5	—				
6	—				
7	Mix	0 – 127	0 – 127		●
8	—				
9	—				
10	—				
11	—				
12	—				
13	—				
14	—				
15	—				
16	—				

• D Chorus

No.	Parameter	Range	Value	Table No.	Ctrl
1	Type	Type1 – Type5	0 – 4		
2	—				
3	—				
4	—				
5	—				
6	—				
7	—				
8	—				
9	—				
10	—				
11	—				
12	—				
13	—				
14	—				
15					
16	—				

• **Symphonic**

No.	Parameter	Range	Value	Table No.	Ctrl
1	Speed	0.0Hz – 39.7Hz	0 – 127	1	
2	Depth	0 – 127	0 – 127		
3	Delay	0.0ms – 50.0ms	0 – 127	2	
4	—				
5	—				
6	—				
7	—				
8	—				
9	—				
10	Mix	1 – 127	1 – 127		●
11	—				
12	—				
13	—				
14	—				
15	—				
16	—				

Master EQ Block

• **MEQ**

No.	Parameter	Range	Value	Table No.	Ctrl
1	Low EQ Gain	-12dB – +12dB	52 – 76		
2	Low EQ Frequency	32Hz – 2.0kHz	4 – 40	3	
3	Low EQ Q	0.1 – 12.0	1 – 120		
4	Low EQ Shape	Shelving, Peaking	0 – 1		
5	MidLow EQ Gain	-12dB – +12dB	52 – 76		
6	MidLow EQ Frequency	100Hz – 10kHz	14 – 54	3	
7	MidLow EQ Q	0.1 – 12.0	1 – 120		
8	—				
9	Mid EQ Gain	-12dB – +12dB	52 – 76		
10	Mid EQ Frequency	100Hz – 10kHz	14 – 54	3	
11	Mid EQ Q	0.1 – 12.0	1 – 120		
12	—				
13	HighMid EQ Gain	-12dB – +12dB	52 – 76		
14	HighMid EQ Frequency	100Hz – 10kHz	14 – 54	3	
15	HighMid EQ Q	0.1 – 12.0	1 – 120		
16	—				
17	High EQ Gain	-12dB – +12dB	52 – 76		
18	High EQ Frequency	500Hz – 16kHz	28 – 58	3	
19	High EQ Q	0.1 – 12.0	1 – 120		
20	High EQ Shape	Shelving, Peaking	0 – 1		

When *Low EQ Shape* is set to “Peaking,” the range of *Low EQ Frequency* is 63Hz – 2.0KHz (10 – 40).

Effect Data Assign Table

Table #1
LFO Frequency

Data	Value	Data	Value
0	0.00	64	2.69
1	0.04	65	2.78
2	0.08	66	2.86
3	0.13	67	2.94
4	0.17	68	3.03
5	0.21	69	3.11
6	0.25	70	3.20
7	0.29	71	3.28
8	0.34	72	3.37
9	0.38	73	3.45
10	0.42	74	3.53
11	0.46	75	3.62
12	0.51	76	3.70
13	0.55	77	3.87
14	0.59	78	4.04
15	0.63	79	4.21
16	0.67	80	4.37
17	0.72	81	4.54
18	0.76	82	4.71
19	0.80	83	4.88
20	0.84	84	5.05
21	0.88	85	5.22
22	0.93	86	5.38
23	0.97	87	5.55
24	1.01	88	5.72
25	1.05	89	6.06
26	1.09	90	6.39
27	1.14	91	6.73
28	1.18	92	7.07
29	1.22	93	7.40
30	1.26	94	7.74
31	1.30	95	8.08
32	1.35	96	8.41
33	1.39	97	8.75
34	1.43	98	9.08
35	1.47	99	9.42
36	1.51	100	9.76
37	1.56	101	10.1
38	1.60	102	10.8
39	1.64	103	11.4
40	1.68	104	12.1
41	1.72	105	12.8
42	1.77	106	13.5
43	1.81	107	14.1
44	1.85	108	14.8
45	1.89	109	15.5
46	1.94	110	16.2
47	1.98	111	16.8
48	2.02	112	17.5
49	2.06	113	18.2
50	2.10	114	19.5
51	2.15	115	20.9
52	2.19	116	22.2
53	2.23	117	23.6
54	2.27	118	24.9
55	2.31	119	26.2
56	2.36	120	27.6
57	2.40	121	28.9
58	2.44	122	30.3
59	2.48	123	31.6
60	2.52	124	33.0
61	2.57	125	34.3
62	2.61	126	37.0
63	2.65	127	39.7

Table #2
Modulation Delay Offset

Data	Value	Data	Value
0	0.0	64	6.4
1	0.1	65	6.5
2	0.2	66	6.6
3	0.3	67	6.7
4	0.4	68	6.8
5	0.5	69	6.9
6	0.6	70	7.0
7	0.7	71	7.1
8	0.8	72	7.2
9	0.9	73	7.3
10	1.0	74	7.4
11	1.1	75	7.5
12	1.2	76	7.6
13	1.3	77	7.7
14	1.4	78	7.8
15	1.5	79	7.9
16	1.6	80	8.0
17	1.7	81	8.1
18	1.8	82	8.2
19	1.9	83	8.3
20	2.0	84	8.4
21	2.1	85	8.5
22	2.2	86	8.6
23	2.3	87	8.7
24	2.4	88	8.8
25	2.5	89	8.9
26	2.6	90	9.0
27	2.7	91	9.1
28	2.8	92	9.2
29	2.9	93	9.3
30	3.0	94	9.4
31	3.1	95	9.5
32	3.2	96	9.6
33	3.3	97	9.7
34	3.4	98	9.8
35	3.5	99	9.9
36	3.6	100	10.0
37	3.7	101	11.1
38	3.8	102	12.2
39	3.9	103	13.3
40	4.0	104	14.4
41	4.1	105	15.5
42	4.2	106	17.1
43	4.3	107	18.6
44	4.4	108	20.2
45	4.5	109	21.8
46	4.6	110	23.3
47	4.7	111	24.9
48	4.8	112	26.5
49	4.9	113	28.0
50	5.0	114	29.6
51	5.1	115	31.2
52	5.2	116	32.8
53	5.3	117	34.3
54	5.4	118	35.9
55	5.5	119	37.5
56	5.6	120	39.0
57	5.7	121	40.6
58	5.8	122	42.2
59	5.9	123	43.7
60	6.0	124	45.3
61	6.1	125	46.9
62	6.2	126	48.4
63	6.3	127	50.0

Table #3
EQ Frequency

Data	Value
0	20
1	22
2	25
3	28
4	32
5	36
6	40
7	45
8	50
9	56
10	63
11	70
12	80
13	90
14	100
15	110
16	125
17	140
18	160
19	180
20	200
21	225
22	250
23	280
24	315
25	355
26	400
27	450
28	500
29	560
30	630
31	700
32	800
33	900
34	1.0k
35	1.1k
36	1.2k
37	1.4k
38	1.6k
39	1.8k
40	2.0k
41	2.2k
42	2.5k
43	2.8k
44	3.2k
45	3.6k
46	4.0k
47	4.5k
48	5.0k
49	5.6k
50	6.3k
51	7.0k
52	8.0k
53	9.0k
54	10.0k
55	11.0k
56	12.0k
57	14.0k
58	16.0k
59	18.0k
60	20.0k

Table #4
Reverb time

Data	Value	Data	Value
0	0.3	64	17.0
1	0.4	65	18.0
2	0.5	66	19.0
3	0.6	67	20.0
4	0.7	68	25.0
5	0.8	69	30.0
6	0.9		
7	1.0		
8	1.1		
9	1.2		
10	1.3		
11	1.4		
12	1.5		
13	1.6		
14	1.7		
15	1.8		
16	1.9		
17	2.0		
18	2.1		
19	2.2		
20	2.3		
21	2.4		
22	2.5		
23	2.6		
24	2.7		
25	2.8		
26	2.9		
27	3.0		
28	3.1		
29	3.2		
30	3.3		
31	3.4		
32	3.5		
33	3.6		
34	3.7		
35	3.8		
36	3.9		
37	4.0		
38	4.1		
39	4.2		
40	4.3		
41	4.4		
42	4.5		
43	4.6		
44	4.7		
45	4.8		
46	4.9		
47	5.0		
48	5.5		
49	6.0		
50	6.5		
51	7.0		
52	7.5		
53	8.0		
54	8.5		
55	9.0		
56	9.5		
57	10.0		
58	11.0		
59	12.0		
60	13.0		
61	14.0		
62	15.0		
63	16.0		

Table #5
Delay Time (0.1 – 200.0 [ms])

Data	Value	Data	Value
0	0.1	64	100.8
1	1.7	65	102.4
2	3.2	66	104.0
3	4.8	67	105.6
4	6.4	68	107.1
5	8.0	69	108.7
6	9.5	70	110.3
7	11.1	71	111.9
8	12.7	72	113.4
9	14.3	73	115.0
10	15.8	74	116.6
11	17.4	75	118.2
12	19.0	76	119.7
13	20.6	77	121.3
14	22.1	78	122.9
15	23.7	79	124.4
16	25.3	80	126.0
17	26.9	81	127.6
18	28.4	82	129.2
19	30.0	83	130.7
20	31.6	84	132.3
21	33.2	85	133.9
22	34.7	86	135.5
23	36.3	87	137.0
24	37.9	88	138.6
25	39.5	89	140.2
26	41.0	90	141.8
27	42.6	91	143.3
28	44.2	92	144.9
29	45.7	93	146.5
30	47.3	94	148.1
31	48.9	95	149.6
32	50.5	96	151.2
33	52.0	97	152.8
34	53.6	98	154.4
35	55.2	99	155.9
36	56.8	100	157.5
37	58.3	101	159.1
38	59.9	102	160.6
39	61.5	103	162.2
40	63.1	104	163.8
41	64.6	105	165.4
42	66.2	106	166.9
43	67.8	107	168.5
44	69.4	108	170.1
45	70.9	109	171.7
46	72.5	110	173.2
47	74.1	111	174.8
48	75.7	112	176.4
49	77.2	113	178.0
50	78.8	114	179.5
51	80.4	115	181.1
52	81.9	116	182.7
53	83.5	117	184.3
54	85.1	118	185.8
55	86.7	119	187.4
56	88.2	120	189.0
57	89.8	121	190.6
58	91.4	122	192.1
59	93.0	123	193.7
60	94.5	124	195.3
61	96.1	125	196.9
62	97.7	126	198.4
63	99.3	127	200.0

Table #6
Room Size

Data	Value	Data	Value
0	0.1	64	10.1
1	0.3	65	10.3
2	0.4	66	10.4
3	0.6	67	10.6
4	0.7	68	10.8
5	0.9	69	10.9
6	1.0	70	11.1
7	1.2	71	11.2
8	1.4	72	11.4
9	1.5	73	11.5
10	1.7	74	11.7
11	1.8	75	11.9
12	2.0	76	12.0
13	2.1	77	12.2
14	2.3	78	12.3
15	2.5	79	12.5
16	2.6	80	12.6
17	2.8	81	12.8
18	2.9	82	12.9
19	3.1	83	13.1
20	3.2	84	13.3
21	3.4	85	13.4
22	3.5	86	13.6
23	3.7	87	13.7
24	3.9	88	13.9
25	4.0	89	14.0
26	4.2	90	14.2
27	4.3	91	14.4
28	4.5	92	14.5
29	4.6	93	14.7
30	4.8	94	14.8
31	5.0	95	15.0
32	5.1	96	15.1
33	5.3	97	15.3
34	5.4	98	15.5
35	5.6	99	15.6
36	5.7	100	15.8
37	5.9	101	15.9
38	6.1	102	16.1
39	6.2	103	16.2
40	6.4	104	16.4
41	6.5	105	16.6
42	6.7	106	16.7
43	6.8	107	16.9
44	7.0	108	17.0
45	7.2	109	17.2
46	7.3	110	17.3
47	7.5	111	17.5
48	7.6	112	17.6
49	7.8	113	17.8
50	7.9	114	18.0
51	8.1	115	18.1
52	8.2	116	18.3
53	8.4	117	18.4
54	8.6	118	18.6
55	8.7	119	18.7
56	8.9	120	18.9
57	9.0	121	19.1
58	9.2	122	19.2
59	9.3	123	19.4
60	9.5	124	19.5
61	9.7	125	19.7
62	9.8	126	19.8
63	10.0	127	20.0

Table #7
Delay Time (0.1 – 400.0 [ms])

Data	Value	Data	Value
0	0.1	64	201.6
1	3.2	65	204.8
2	6.4	66	207.9
3	9.5	67	211.1
4	12.7	68	214.2
5	15.8	69	217.4
6	19.0	70	220.5
7	22.1	71	223.7
8	25.3	72	226.8
9	28.4	73	230.0
10	31.6	74	233.1
11	34.7	75	236.3
12	37.9	76	239.4
13	41.0	77	242.6
14	44.2	78	245.7
15	47.3	79	248.9
16	50.5	80	252.0
17	53.6	81	255.2
18	56.8	82	258.3
19	59.9	83	261.5
20	63.1	84	264.6
21	66.2	85	267.7
22	69.4	86	270.9
23	72.5	87	274.0
24	75.7	88	277.2
25	78.8	89	280.3
26	82.0	90	283.5
27	85.1	91	286.6
28	88.3	92	289.8
29	91.4	93	292.9
30	94.6	94	296.1
31	97.7	95	299.2
32	100.9	96	302.4
33	104.0	97	305.5
34	107.2	98	308.7
35	110.3	99	311.8
36	113.5	100	315.0
37	116.6	101	318.1
38	119.8	102	321.3
39	122.9	103	324.4
40	126.1	104	327.6
41	129.2	105	330.7
42	132.4	106	333.9
43	135.5	107	337.0
44	138.6	108	340.2
45	141.8	109	343.3
46	144.9	110	346.5
47	148.1	111	349.6
48	151.2	112	352.8
49	154.4	113	355.9
50	157.5	114	359.1
51	160.7	115	362.2
52	163.8	116	365.4
53	167.0	117	368.5
54	170.1	118	371.7
55	173.3	119	374.8
56	176.4	120	378.0
57	179.6	121	381.1
58	182.7	122	384.3
59	185.9	123	387.4
60	189.0	124	390.6
61	192.2	125	393.7
62	195.3	126	396.9
63	198.5	127	400.0

Table #8
Compressor Attack Time

Data	Value
0	1
1	2
2	3
3	4
4	5
5	6
6	7
7	8
8	9
9	10
10	12
11	14
12	16
13	18
14	20
15	23
16	26
17	30
18	35
19	40
20	50
21	60
22	70
23	80
24	100
25	120
26	140
27	160
28	180
29	200

Table #9
Compressor Release Time

Data	Value
0	10
1	15
2	25
3	35
4	45
5	55
6	65
7	75
8	85
9	100
10	115
11	140
12	170
13	230
14	340
15	680
16	850
17	1000
18	1200
19	1500
20	1700
21	2000
22	2400
23	3000

Table #10
Compressor Ratio

Data	Value
0	1.0
1	1.5
2	2.0
3	3.0
4	5.0
5	7.0
6	10.0
7	20.0

Table #14
Tempo

Data	Value
0	32nd/3
1	64th.
2	32nd
3	16th/3
4	32nd.
5	16th
6	8th/3
7	16th.
8	8th
9	4th/3
10	8th.
11	4th
12	2nd/3
13	4th.
14	2nd
15	Whole/3
16	2nd.
17	4thX4
18	4thX5
19	4thX6
20	4thX7
21	4thX8
22	4thX9
23	4thX10
24	4thX11
25	4thX12
26	4thX13
27	4thX14
28	4thX15
29	4thX16

Table #15
Multi Compressor Gain (dB)

Data	Value
0	-∞
1	-60
2	-57
3	-54
4	-51
5	-48
6	-45
7	-42
8	-39
9	-36
10	-33
11	-30
12	-27
13	-24
14	-23
15	-22
16	-21
17	-20
18	-19
19	-18
20	-17
21	-16
22	-15
23	-14
24	-13
25	-12
26	-11
27	-10
28	-9
29	-8
30	-7
31	-6
32	-5
33	-4
34	-3
35	-2
36	-1
37	0
38	1
39	2
40	3
41	4
42	5
43	6
44	7
45	8
46	9
47	10
48	11
49	12
50	13
51	14
52	15
53	16
54	17
55	18

Table #19
Ring Mod OSC Freq Coarse (Hz)

Data	Value	Data	Value
0	0.5	64	151
1	1.5	65	160
2	2.0	66	169
3	2.5	67	179
4	3.5	68	189
5	4.0	69	200
6	4.5	70	211
7	5.5	71	223
8	6.0	72	236
9	6.5	73	249
10	7.5	74	264
11	8.0	75	279
12	8.4	76	295
13	8.9	77	311
14	9.4	78	329
15	9.9	79	348
16	10.5	80	368
17	11.1	81	389
18	11.7	82	411
19	12.4	83	435
20	13.1	84	459
21	13.9	85	486
22	14.7	86	513
23	15.5	87	543
24	16.4	88	574
25	17.3	89	607
26	18.3	90	641
27	19.4	91	678
28	20.5	92	717
29	21.7	93	757
30	22.9	94	801
31	24.2	95	846
32	25.6	96	895
33	27.1	97	946
34	28.6	98	1.00k
35	30.3	99	1.05k
36	32.0	100	1.11k
37	33.8	101	1.18k
38	35.8	102	1.24k
39	37.8	103	1.32k
40	40.0	104	1.39k
41	42.2	105	1.47k
42	44.7	106	1.55k
43	47.2	107	1.64k
44	49.9	108	1.74k
45	52.7	109	1.84k
46	55.8	110	1.94k
47	58.9	111	2.05k
48	62.3	112	2.17k
49	65.9	113	2.29k
50	69.6	114	2.43k
51	73.6	115	2.56k
52	77.8	116	2.71k
53	82.3	117	2.87k
54	87.0	118	3.03k
55	91.9	119	3.20k
56	97.2	120	3.39k
57	102	121	3.58k
58	108	122	3.79k
59	114	123	4.00k
60	121	124	4.23k
61	128	125	4.47k
62	135	126	4.73k
63	143	127	5.00k

Table #20
V-Flanger Delay Offset

Data	Value	Data	Value	Data	Value
0	0.09	64	4.72	128	31.38
1	0.11	65	4.96	129	31.82
2	0.13	66	5.21	130	32.25
3	0.15	67	5.47	131	32.69
4	0.18	68	5.75	132	33.13
5	0.20	69	6.04	133	33.57
6	0.22	70	6.35	134	34.01
7	0.24	71	6.67	135	34.45
8	0.27	72	7.01	136	34.89
9	0.29	73	7.37	137	35.33
10	0.31	74	7.74	138	35.77
11	0.34	75	8.13	139	36.21
12	0.36	76	8.54		
13	0.38	77	8.97		
14	0.40	78	9.41		
15	0.42	79	9.85		
16	0.43	80	10.29		
17	0.46	81	10.73		
18	0.48	82	11.17		
19	0.51	83	11.61		
20	0.53	84	12.05		
21	0.56	85	12.49		
22	0.59	86	12.93		
23	0.62	87	13.37		
24	0.65	88	13.81		
25	0.68	89	14.24		
26	0.72	90	14.68		
27	0.76	91	15.12		
28	0.79	92	15.56		
29	0.83	93	16.00		
30	0.88	94	16.44		
31	0.92	95	16.88		
32	0.97	96	17.32		
33	1.02	97	17.76		
34	1.07	98	18.20		
35	1.12	99	18.64		
36	1.18	100	19.08		
37	1.24	101	19.52		
38	1.30	102	19.96		
39	1.37	103	20.40		
40	1.44	104	20.83		
41	1.51	105	21.27		
42	1.59	106	21.71		
43	1.67	107	22.15		
44	1.76	108	22.59		
45	1.84	109	23.03		
46	1.94	110	23.47		
47	2.04	111	23.91		
48	2.14	112	24.35		
49	2.25	113	24.79		
50	2.36	114	25.23		
51	2.48	115	25.66		
52	2.61	116	26.10		
53	2.74	117	26.54		
54	2.88	118	26.98		
55	3.03	119	27.42		
56	3.18	120	27.86		
57	3.34	121	28.30		
58	3.51	122	28.74		
59	3.69	123	29.18		
60	3.87	124	29.62		
61	4.07	125	30.06		
62	4.28	126	30.50		
63	4.49	127	30.94		

Table #21
Modulation Phase

Data	Value
0	-180
1	-158
2	-135
3	-113
4	-90
5	-68
6	-45
7	-23
8	0
9	23
10	45
11	68
12	90
13	113
14	135
15	158
16	180

Table #22
VCM Flanger Speed

Data	Value	Data	Value	Data	Value	Data	Value
0	0.040	64	0.247	128	0.988	192	3.953
1	0.042	65	0.252	129	1.009	193	4.037
2	0.045	66	0.258	130	1.030	194	4.122
3	0.047	67	0.263	131	1.051	195	4.206
4	0.050	68	0.268	132	1.072	196	4.290
5	0.053	69	0.273	133	1.093	197	4.374
6	0.055	70	0.281	134	1.125	198	4.500
7	0.058	71	0.287	135	1.146	199	4.584
8	0.060	72	0.292	136	1.167	200	4.668
9	0.063	73	0.300	137	1.199	201	4.752
10	0.066	74	0.308	138	1.220	202	4.879
11	0.068	75	0.313	139	1.251	203	5.005
12	0.071	76	0.321	140	1.272	204	5.131
13	0.074	77	0.326	141	1.304	205	5.215
14	0.076	78	0.334	142	1.335	206	5.341
15	0.079	79	0.342	143	1.367	207	5.467
16	0.081	80	0.347	144	1.409	208	5.552
17	0.084	81	0.357	145	1.430	209	5.720
18	0.087	82	0.363	146	1.451	210	5.804
19	0.089	83	0.373	147	1.493	211	5.972
20	0.092	84	0.379	148	1.514	212	6.056
21	0.095	85	0.389	149	1.556	213	6.224
22	0.097	86	0.400	150	1.577	214	6.309
23	0.100	87	0.405	151	1.619	215	6.477
24	0.102	88	0.415	152	1.661	216	6.645
25	0.105	89	0.426	153	1.682	217	6.813
26	0.108	90	0.431	154	1.724	218	6.897
27	0.110	91	0.442	155	1.766	219	7.066
28	0.113	92	0.452	156	1.808	220	7.234
29	0.116	93	0.463	157	1.851	221	7.402
30	0.118	94	0.473	158	1.893	222	7.570
31	0.121	95	0.484	159	1.935	223	7.738
32	0.124	96	0.494	160	1.977	224	7.907
33	0.126	97	0.505	161	2.019	225	8.075
34	0.129	98	0.515	162	2.061	226	8.243
35	0.131	99	0.526	163	2.103	227	8.411
36	0.134	100	0.536	164	2.145	228	8.580
37	0.137	101	0.547	165	2.187	229	8.748
38	0.139	102	0.563	166	2.250	230	9.000
39	0.145	103	0.573	167	2.292	231	9.168
40	0.147	104	0.589	168	2.334	232	9.337
41	0.150	105	0.599	169	2.397	233	9.589
42	0.152	106	0.615	170	2.460	234	9.757
43	0.158	107	0.626	171	2.502	235	10.00
44	0.160	108	0.636	172	2.565		
45	0.163	109	0.652	173	2.608		
46	0.168	110	0.668	174	2.671		
47	0.171	111	0.683	175	2.733		
48	0.173	112	0.704	176	2.776		
49	0.179	113	0.715	177	2.860		
50	0.181	114	0.725	178	2.902		
51	0.187	115	0.747	179	2.986		
52	0.189	116	0.757	180	3.028		
53	0.195	117	0.778	181	3.112		
54	0.197	118	0.789	182	3.154		
55	0.202	119	0.810	183	3.238		
56	0.208	120	0.831	184	3.323		
57	0.210	121	0.852	185	3.365		
58	0.216	122	0.862	186	3.449		
59	0.221	123	0.883	187	3.533		
60	0.226	124	0.904	188	3.617		
61	0.231	125	0.925	189	3.701		
62	0.237	126	0.946	190	3.785		
63	0.242	127	0.967	191	3.869		

Table #26
Rev Room Time

Data	Value	Data	Value
0	0.3	64	6.7
1	0.4	65	6.8
2	0.5	66	6.9
3	0.6	67	7.0
4	0.7	68	8.0
5	0.8	69	10.0
6	0.9		
7	1.0		
8	1.1		
9	1.2		
10	1.3		
11	1.4		
12	1.5		
13	1.6		
14	1.7		
15	1.8		
16	1.9		
17	2.0		
18	2.1		
19	2.2		
20	2.3		
21	2.4		
22	2.5		
23	2.6		
24	2.7		
25	2.8		
26	2.9		
27	3.0		
28	3.1		
29	3.2		
30	3.3		
31	3.4		
32	3.5		
33	3.6		
34	3.7		
35	3.8		
36	3.9		
37	4.0		
38	4.1		
39	4.2		
40	4.3		
41	4.4		
42	4.5		
43	4.6		
44	4.7		
45	4.8		
46	4.9		
47	5.0		
48	5.1		
49	5.2		
50	5.3		
51	5.4		
52	5.5		
53	5.6		
54	5.7		
55	5.8		
56	5.9		
57	6.0		
58	6.1		
59	6.2		
60	6.3		
61	6.4		
62	6.5		
63	6.6		

Table #29
VCM Comp Attack Time

Data	Value	Data	Value	Data	Value	Data	Value
0	0.022ms	64	2.941ms	128	16.53ms	192	45.51ms
1	0.023ms	65	3.056ms	129	16.86ms	193	46.10ms
2	0.024ms	66	3.174ms	130	17.18ms	194	46.70ms
3	0.025ms	67	3.295ms	131	17.52ms	195	47.31ms
4	0.026ms	68	3.418ms	132	17.85ms	196	47.91ms
5	0.028ms	69	3.544ms	133	18.19ms	197	48.53ms
6	0.031ms	70	3.673ms	134	18.53ms	198	49.15ms
7	0.035ms	71	3.805ms	135	18.88ms	199	49.77ms
8	0.039ms	72	3.940ms	136	19.23ms	200	50.40ms
9	0.045ms	73	4.077ms	137	19.59ms		
10	0.051ms	74	4.217ms	138	19.95ms		
11	0.059ms	75	4.361ms	139	20.31ms		
12	0.068ms	76	4.507ms	140	20.68ms		
13	0.077ms	77	4.656ms	141	21.05ms		
14	0.088ms	78	4.807ms	142	21.42ms		
15	0.101ms	79	4.962ms	143	21.80ms		
16	0.114ms	80	5.120ms	144	22.18ms		
17	0.129ms	81	5.281ms	145	22.57ms		
18	0.146ms	82	5.445ms	146	22.96ms		
19	0.163ms	83	5.611ms	147	23.36ms		
20	0.182ms	84	5.781ms	148	23.75ms		
21	0.203ms	85	5.954ms	149	24.16ms		
22	0.225ms	86	6.130ms	150	24.56ms		
23	0.249ms	87	6.309ms	151	24.97ms		
24	0.274ms	88	6.491ms	152	25.39ms		
25	0.301ms	89	6.677ms	153	25.81ms		
26	0.330ms	90	6.865ms	154	26.23ms		
27	0.360ms	91	7.057ms	155	26.66ms		
28	0.393ms	92	7.252ms	156	27.09ms		
29	0.426ms	93	7.450ms	157	27.53ms		
30	0.462ms	94	7.651ms	158	27.97ms		
31	0.500ms	95	7.855ms	159	28.41ms		
32	0.539ms	96	8.063ms	160	28.86ms		
33	0.580ms	97	8.274ms	161	29.31ms		
34	0.623ms	98	8.489ms	162	29.77ms		
35	0.668ms	99	8.706ms	163	30.23ms		
36	0.716ms	100	8.927ms	164	30.70ms		
37	0.765ms	101	9.151ms	165	31.17ms		
38	0.816ms	102	9.379ms	166	31.64ms		
39	0.869ms	103	9.610ms	167	32.12ms		
40	0.924ms	104	9.844ms	168	32.60ms		
41	0.982ms	105	10.09ms	169	33.09ms		
42	1.041ms	106	10.33ms	170	33.58ms		
43	1.103ms	107	10.57ms	171	34.07ms		
44	1.167ms	108	10.82ms	172	34.57ms		
45	1.233ms	109	11.07ms	173	35.08ms		
46	1.301ms	110	11.33ms	174	35.59ms		
47	1.372ms	111	11.59ms	175	36.10ms		
48	1.444ms	112	11.85ms	176	36.62ms		
49	1.520ms	113	12.11ms	177	37.14ms		
50	1.597ms	114	12.38ms	178	37.67ms		
51	1.677ms	115	12.66ms	179	38.20ms		
52	1.759ms	116	12.93ms	180	38.73ms		
53	1.844ms	117	13.21ms	181	39.27ms		
54	1.931ms	118	13.50ms	182	39.82ms		
55	2.021ms	119	13.78ms	183	40.36ms		
56	2.113ms	120	14.07ms	184	40.92ms		
57	2.207ms	121	14.37ms	185	41.48ms		
58	2.304ms	122	14.67ms	186	42.04ms		
59	2.404ms	123	14.97ms	187	42.61ms		
60	2.506ms	124	15.27ms	188	43.18ms		
61	2.611ms	125	15.58ms	189	43.75ms		
62	2.718ms	126	15.90ms	190	44.33ms		
63	2.828ms	127	16.21ms	191	44.92ms		

Table #30
VCM Comp Release Time

Data	Value	Data	Value	Data	Value	Data	Value
0	10.88ms	64	65.50ms	128	229.34ms	192	502.40ms
1	10.90ms	65	67.22ms	129	232.76ms	193	507.54ms
2	10.94ms	66	68.96ms	130	236.22ms	194	512.70ms
3	11.00ms	67	70.74ms	131	239.70ms	195	517.88ms
4	11.10ms	68	72.54ms	132	243.20ms	196	523.10ms
5	11.22ms	69	74.36ms	133	246.74ms	197	528.34ms
6	11.36ms	70	76.22ms	134	250.30ms	198	533.60ms
7	11.54ms	71	78.10ms	135	253.88ms	199	538.90ms
8	11.74ms	72	80.00ms	136	257.50ms	200	544.22ms
9	11.96ms	73	81.94ms	137	261.14ms		
10	12.22ms	74	83.90ms	138	264.80ms		
11	12.50ms	75	85.88ms	139	268.50ms		
12	12.80ms	76	87.90ms	140	272.22ms		
13	13.14ms	77	89.94ms	141	275.96ms		
14	13.50ms	78	92.00ms	142	279.74ms		
15	13.88ms	79	94.10ms	143	283.54ms		
16	14.30ms	80	96.22ms	144	287.36ms		
17	14.74ms	81	98.36ms	145	291.22ms		
18	15.20ms	82	100.54ms	146	295.10ms		
19	15.70ms	83	102.74ms	147	299.00ms		
20	16.22ms	84	104.96ms	148	302.94ms		
21	16.76ms	85	107.22ms	149	306.90ms		
22	17.34ms	86	109.50ms	150	310.88ms		
23	17.94ms	87	111.80ms	151	314.90ms		
24	18.56ms	88	114.14ms	152	318.94ms		
25	19.22ms	89	116.50ms	153	323.00ms		
26	19.90ms	90	118.88ms	154	327.10ms		
27	20.60ms	91	121.30ms	155	331.22ms		
28	21.34ms	92	123.74ms	156	335.36ms		
29	22.10ms	93	126.20ms	157	339.54ms		
30	22.88ms	94	128.70ms	158	343.74ms		
31	23.70ms	95	131.22ms	159	347.96ms		
32	24.54ms	96	133.76ms	160	352.22ms		
33	25.40ms	97	136.34ms	161	356.50ms		
34	26.30ms	98	138.94ms	162	360.80ms		
35	27.22ms	99	141.56ms	163	365.14ms		
36	28.16ms	100	144.22ms	164	369.50ms		
37	29.14ms	101	146.90ms	165	373.88ms		
38	30.14ms	102	149.60ms	166	378.30ms		
39	31.16ms	103	152.34ms	167	382.74ms		
40	32.22ms	104	155.10ms	168	387.20ms		
41	33.30ms	105	157.88ms	169	391.70ms		
42	34.40ms	106	160.70ms	170	396.22ms		
43	35.54ms	107	163.54ms	171	400.76ms		
44	36.70ms	108	166.40ms	172	405.34ms		
45	37.88ms	109	169.30ms	173	409.94ms		
46	39.10ms	110	172.22ms	174	414.56ms		
47	40.34ms	111	175.16ms	175	419.22ms		
48	41.60ms	112	178.14ms	176	423.90ms		
49	42.90ms	113	181.14ms	177	428.60ms		
50	44.22ms	114	184.16ms	178	433.34ms		
51	45.56ms	115	187.22ms	179	438.10ms		
52	46.94ms	116	190.30ms	180	442.88ms		
53	48.34ms	117	193.40ms	181	447.70ms		
54	49.76ms	118	196.54ms	182	452.54ms		
55	51.22ms	119	199.70ms	183	457.40ms		
56	52.70ms	120	202.88ms	184	462.30ms		
57	54.20ms	121	206.10ms	185	467.22ms		
58	55.74ms	122	209.34ms	186	472.16ms		
59	57.30ms	123	212.60ms	187	477.14ms		
60	58.88ms	124	215.90ms	188	482.14ms		
61	60.50ms	125	219.22ms	189	487.16ms		
62	62.14ms	126	222.56ms	190	492.22ms		
63	63.80ms	127	225.94ms	191	497.30ms		

Table #31
Max90/100 Freq

Data	Value	Data	Value
0	0.100	64	1.018
1	0.104	65	1.056
2	0.108	66	1.095
3	0.111	67	1.135
4	0.116	68	1.177
5	0.120	69	1.221
6	0.124	70	1.266
7	0.129	71	1.313
8	0.134	72	1.361
9	0.139	73	1.411
10	0.144	74	1.463
11	0.149	75	1.517
12	0.155	76	1.573
13	0.160	77	1.632
14	0.166	78	1.692
15	0.172	79	1.754
16	0.179	80	1.819
17	0.185	81	1.886
18	0.192	82	1.956
19	0.199	83	2.028
20	0.207	84	2.103
21	0.214	85	2.181
22	0.222	86	2.261
23	0.230	87	2.345
24	0.239	88	2.431
25	0.248	89	2.521
26	0.257	90	2.614
27	0.266	91	2.711
28	0.276	92	2.811
29	0.286	93	2.915
30	0.297	94	3.022
31	0.308	95	3.134
32	0.319	96	3.249
33	0.331	97	3.369
34	0.343	98	3.494
35	0.356	99	3.623
36	0.369	100	3.757
37	0.383	101	3.895
38	0.397	102	4.039
39	0.411	103	4.188
40	0.427	104	4.343
41	0.442	105	4.503
42	0.459	106	4.670
43	0.476	107	4.842
44	0.493	108	5.021
45	0.511	109	5.206
46	0.530	110	5.399
47	0.550	111	5.598
48	0.570	112	5.805
49	0.591	113	6.019
50	0.613	114	6.241
51	0.636	115	6.472
52	0.659	116	6.711
53	0.683	117	6.959
54	0.709	118	7.216
55	0.735	119	7.482
56	0.762	120	7.758
57	0.790	121	8.045
58	0.819	122	8.342
59	0.849	123	8.650
60	0.881	124	8.969
61	0.913	125	9.300
62	0.947	126	9.644
63	0.982	127	10.00

Table #32
Small Phaser (*Color* = 0)

Data	Value	Data	Value
0	0.092	64	0.947
1	0.094	65	0.988
2	0.096	66	1.030
3	0.098	67	1.075
4	0.101	68	1.122
5	0.104	69	1.172
6	0.107	70	1.223
7	0.110	71	1.277
8	0.113	72	1.333
9	0.117	73	1.392
10	0.120	74	1.454
11	0.124	75	1.518
12	0.128	76	1.586
13	0.132	77	1.657
14	0.137	78	1.731
15	0.142	79	1.808
16	0.146	80	1.889
17	0.151	81	1.975
18	0.157	82	2.064
19	0.162	83	2.157
20	0.168	84	2.254
21	0.174	85	2.357
22	0.180	86	2.464
23	0.187	87	2.576
24	0.194	88	2.694
25	0.201	89	2.817
26	0.208	90	2.946
27	0.216	91	3.081
28	0.224	92	3.223
29	0.233	93	3.371
30	0.242	94	3.527
31	0.251	95	3.690
32	0.260	96	3.860
33	0.270	97	4.040
34	0.281	98	4.227
35	0.292	99	4.424
36	0.303	100	4.630
37	0.315	101	4.847
38	0.328	102	5.073
39	0.341	103	5.311
40	0.354	104	5.560
41	0.369	105	5.822
42	0.384	106	6.096
43	0.399	107	6.383
44	0.415	108	6.685
45	0.432	109	7.001
46	0.450	110	7.333
47	0.468	111	7.681
48	0.488	112	8.046
49	0.508	113	8.429
50	0.529	114	8.830
51	0.551	115	9.252
52	0.574	116	9.694
53	0.598	117	10.16
54	0.623	118	10.65
55	0.649	119	11.16
56	0.677	120	11.69
57	0.705	121	12.26
58	0.735	122	12.85
59	0.767	123	13.47
60	0.800	124	14.12
61	0.834	125	14.80
62	0.870	126	15.52
63	0.907	127	16.27

Table #33
Small Phaser (*Color* = 1)

Data	Value	Data	Value
0	0.063	64	0.644
1	0.064	65	0.672
2	0.065	66	0.701
3	0.067	67	0.732
4	0.069	68	0.764
5	0.071	69	0.797
6	0.073	70	0.832
7	0.075	71	0.869
8	0.077	72	0.907
9	0.079	73	0.947
10	0.082	74	0.989
11	0.085	75	1.033
12	0.087	76	1.079
13	0.090	77	1.127
14	0.093	78	1.177
15	0.096	79	1.230
16	0.100	80	1.285
17	0.103	81	1.343
18	0.107	82	1.404
19	0.110	83	1.467
20	0.114	84	1.534
21	0.118	85	1.603
22	0.123	86	1.676
23	0.127	87	1.752
24	0.132	88	1.832
25	0.137	89	1.916
26	0.142	90	2.004
27	0.147	91	2.096
28	0.153	92	2.192
29	0.158	93	2.293
30	0.164	94	2.399
31	0.171	95	2.510
32	0.177	96	2.626
33	0.184	97	2.748
34	0.191	98	2.876
35	0.199	99	3.010
36	0.206	100	3.150
37	0.215	101	3.297
38	0.223	102	3.451
39	0.232	103	3.613
40	0.241	104	3.782
41	0.251	105	3.960
42	0.261	106	4.147
43	0.271	107	4.342
44	0.282	108	4.547
45	0.294	109	4.763
46	0.306	110	4.988
47	0.319	111	5.225
48	0.332	112	5.473
49	0.345	113	5.734
50	0.360	114	6.007
51	0.375	115	6.294
52	0.390	116	6.595
53	0.407	117	6.911
54	0.424	118	7.242
55	0.442	119	7.590
56	0.460	120	7.954
57	0.480	121	8.337
58	0.500	122	8.739
59	0.522	123	9.161
60	0.544	124	9.604
61	0.567	125	10.07
62	0.592	126	10.56
63	0.617	127	11.07

Table #34
EQ Frequency (ISO266)

Data	Value	Data	Value
0	16.0	64	630.0
1	17.0	65	670.0
2	18.0	66	710.0
3	19.0	67	750.0
4	20.0	68	800.0
5	21.2	69	850.0
6	22.4	70	900.0
7	23.6	71	950.0
8	25.0	72	1.00k
9	26.5	73	1.06k
10	28.0	74	1.12k
11	30.0	75	1.18k
12	31.5	76	1.25k
13	33.5	77	1.32k
14	35.5	78	1.40k
15	37.5	79	1.50k
16	40.0	80	1.60k
17	42.5	81	1.70k
18	45.0	82	1.80k
19	47.5	83	1.90k
20	50.0	84	2.00k
21	53.0	85	2.12k
22	56.0	86	2.24k
23	60.0	87	2.36k
24	63.0	88	2.50k
25	67.0	89	2.65k
26	71.0	90	2.80k
27	75.0	91	3.00k
28	80.0	92	3.15k
29	85.0	93	3.35k
30	90.0	94	3.55k
31	95.0	95	3.75k
32	100.0	96	4.00k
33	106.0	97	4.25k
34	112.0	98	4.50k
35	118.0	99	4.75k
36	125.0	100	5.00k
37	132.0	101	5.30k
38	140.0	102	5.60k
39	150.0	103	6.00k
40	160.0	104	6.30k
41	170.0	105	6.70k
42	180.0	106	7.10k
43	190.0	107	7.50k
44	200.0	108	8.00k
45	212.0	109	8.50k
46	224.0	110	9.00k
47	236.0	111	9.50k
48	250.0	112	10.0k
49	265.0	113	10.6k
50	280.0	114	11.2k
51	300.0	115	11.8k
52	315.0	116	12.5k
53	335.0	117	13.2k
54	355.0	118	14.0k
55	375.0	119	15.0k
56	400.0	120	16.0k
57	425.0	121	17.0k
58	450.0	122	18.0k
59	475.0	123	19.0k
60	500.0	124	20.0k
61	530.0	125	21.2k
62	560.0	126	22.4k
63	600.0	127	23.6k

Table #36
EQ Q

No.	Value
0	0.50
1	0.53
2	0.56
3	0.59
4	0.63
5	0.67
6	0.71
7	0.75
8	0.79
9	0.84
10	0.89
11	0.94
12	1.00
13	1.06
14	1.12
15	1.19
16	1.26
17	1.33
18	1.41
19	1.50
20	1.59
21	1.68
22	1.78
23	1.89
24	2.00
25	2.12
26	2.24
27	2.38
28	2.52
29	2.67
30	2.83
31	3.00
32	3.17
33	3.36
34	3.56
35	3.78
36	4.00
37	4.24
38	4.49
39	4.76
40	5.04
41	5.34
42	5.66
43	5.99
44	6.35
45	6.73
46	7.13
47	7.55
48	8.00
49	8.48
50	8.98
51	9.51
52	10.08
53	10.68
54	11.31
55	11.99
56	12.70
57	13.45
58	14.25
59	15.10
60	16.00

Effect Preset List

Category	Effect Type Name	Preset Name
Delay	Cross Delay	Basic Short Long Very Long
	Tempo Cross Delay	4beat Echo Dotted 8th Echo 8beat Echo Triplet Echo 2beat Echo
	Tempo Delay Mono	4beat Echo Mono Out 4beat Dotted 8th Echo 8beat Echo Mono Out Dot8 Mono Out 8beat Triplet Echo Triplet Mono Analog Delay
	Tempo Delay Stereo	4beat Echo Dotted 8th Echo 8beat Echo Triplet Echo
	Delay LR	Basic Mono Doubling Short Fast Long Very Long Analog Delay Ping Pong Bounce
	Delay LCR	Bounce Analog Delay
	Delay LR Stereo	Basic Doubling Short Fast Long Very Long Analog Delay
Chorus	G Chorus	Basic Fast Deep Mist Bright
	2Modulator	Basic Fast Deep Mist Multi Panning Mod Vibrator Wonder Shimmer
	SPX Chorus	Basic Fast Deep Slow Flangy
	Ensemble Detune	Basic Soft Wide Deep Wide Stereo Sim
Flanger	Classic Flanger	Basic Flange Chorus Psychedelic Jet
	Tempo Flanger	Deep Mod Flange Chorus Metallic Psychedelic Jet
Phaser	Tempo Phaser	Basic Deep Phase

Category	Effect Type Name	Preset Name
Tremolo&Rotary	Auto Pan	E.Piano Smooth Oval Right Turn Super Slow
	Tremolo	Fast Slow Super Fast Stereo Vibrato Spring Relax
	Rotary Speaker	Basic Horn Mic Light Heavy Rotor Fast First
Distortion	Amp Simulator 1	Stack1 Stack2 Twin Boost Old Amp Transistor Modern US-Clean J-Clean Fuzz Small Blues Buzzy Bottom Beat Crunch Beat Drive
	Amp Simulator 2	Stack1 Stack2 Combo Crunch Hi Gain British Tube Drive Tube Clean
	Comp Distortion	Basic Booster School Boy Detroit Long Lead 80s Clean
	Comp Distortion Delay	Hard1 Hard2 Grunge Voodoo Texas Rockabilly LA Session Thin Techno
Compressor	VCM Compressor 376	Basic Comp Sustainer 60s DrumKit Natural Kick Old Piano Valve Tone Bass Hard Basic Fast Atk + Boost Soft Atk + Boost Attack & Tight Hard Atk + Boost Vocal Comp 117x Unplugged Attack Comp Punchy Master Pinched
	Classic Compressor	Basic Attack For Vintage Keys Pack Comp Gate Tight Pop Rhythm Cutting Comp Basic Bass Old Record Piano
	Multi Band Comp	Basic Maximizer Wild Attacky Hard Hip Club Slap Bass(ch)

Category	Effect Type Name	Preset Name
Lo-Fi	Noisy	Noisy Tremolo Noise Fuzz Noise
	Digital Turntable	Old Record1 Old Record2 Short Wave Radio
Tech	Ring Modulator	Basic Slow Tremolo Crazy
	Auto Synth	Echo Space Walking Robot Delay
	Isolator	Mid Only Near Flat
	Tec Modulation	Star Train Numerator Active Dist Astonish Drift Armor
MISC	Damper Resonance	Basic
	Damper Resonance 2	Basic
	VCM EQ 501	Flat Radio Speaker Dance Bd & Sn
	Harmonic Enhancer	Edge Hi Edge Mid Edge
	Talking Modulator	Basic
	Pitch Change	Detune Oct Echo Octaver Plus 4th Minus 4th Oval Step Up Step Down
	Early Reflections	Close Far Reverse Gate 70s Gate
PRE AMPS	Pre Amp 71Rd I	Basic
	Pre Amp 73Rd I	Basic
	Pre Amp 75Rd I	Basic
	Pre Amp 78Rd II	Basic
	Pre Amp Dyno	Basic
	Pre Amp 69Wr	Basic
	Pre Amp 77Wr	Basic
	Pre Amp Cp	Basic
	Pre Amp Cp88	Basic
	Mic 2Band-1	Basic
	Mic 2Band-2	Basic
	Mic 2Band-3	Basic
	Mic 3Band-1	Basic
	Mic 3Band-2	Basic
	Mic 3Band-3	Basic
	Line	Basic
MOD EFFECT	Small Phaser	Basic
	MAX90	Basic
	MAX100	Basic
	Flanger	Basic
	Touch Wah	Basic
	Pedal Wah	Basic
	Chorus	Basic
	D Chorus	Basic
	Symphonic	Basic

MIDI Data Format

Many MIDI messages listed in the MIDI Data Format section are expressed in hexadecimal or binary numbers. Hexadecimal numbers may include the letter “H” as a suffix. The letter “n” indicates a certain whole number.
The chart below lists the corresponding decimal number for each hexadecimal number.

Decimal	Hexadecimal	Decimal	Hexadecimal
0	0	64	40
1	1	65	41
2	2	66	42
3	3	67	43
4	4	68	44
5	5	69	45
6	6	70	46
7	7	71	47
8	8	72	48
9	9	73	49
10	0A	74	4A
11	0B	75	4B
12	0C	76	4C
13	0D	77	4D
14	0E	78	4E
15	0F	79	4F
16	10	80	50
17	11	81	51
18	12	82	52
19	13	83	53
20	14	84	54
21	15	85	55
22	16	86	56
23	17	87	57
24	18	88	58
25	19	89	59
26	1A	90	5A
27	1B	91	5B
28	1C	92	5C
29	1D	93	5D
30	1E	94	5E
31	1F	95	5F
32	20	96	60
33	21	97	61
34	22	98	62
35	23	99	63
36	24	100	64
37	25	101	65
38	26	102	66
39	27	103	67
40	28	104	68
41	29	105	69
42	2A	106	6A
43	2B	107	6B
44	2C	108	6C
45	2D	109	6D
46	2E	110	6E
47	2F	111	6F
48	30	112	70
49	31	113	71
50	32	114	72
51	33	115	73
52	34	116	74
53	35	117	75
54	36	118	76
55	37	119	77
56	38	120	78
57	39	121	79
58	3A	122	7A
59	3B	123	7B
60	3C	124	7C
61	3D	125	7D
62	3E	126	7E
63	3F	127	7F

Additional Notes

- For example, 144 – 159(Decimal)/9nH/1001 0000 – 1001 1111(Binary) indicate the note-on messages for the channels 1 through 16 respectively. 176 – 191/BnH/1011 0000 – 1011 1111 indicate the control change messages for the channels 1 through 16 respectively. 192 – 207/CnH/1100 0000 – 1100 1111 indicate the program change messages for the channels 1 through 16 respectively. 240/F0H/1111 0000 is positioned at the beginning of data to indicate a system exclusive message. 247/F7H/1111 0111 is positioned at the end of the system exclusive message.

- aaH (Hexadecimal)/0aaaaaaa (Binary) indicates the data addresses. The data address consists of High, Mid and Low.

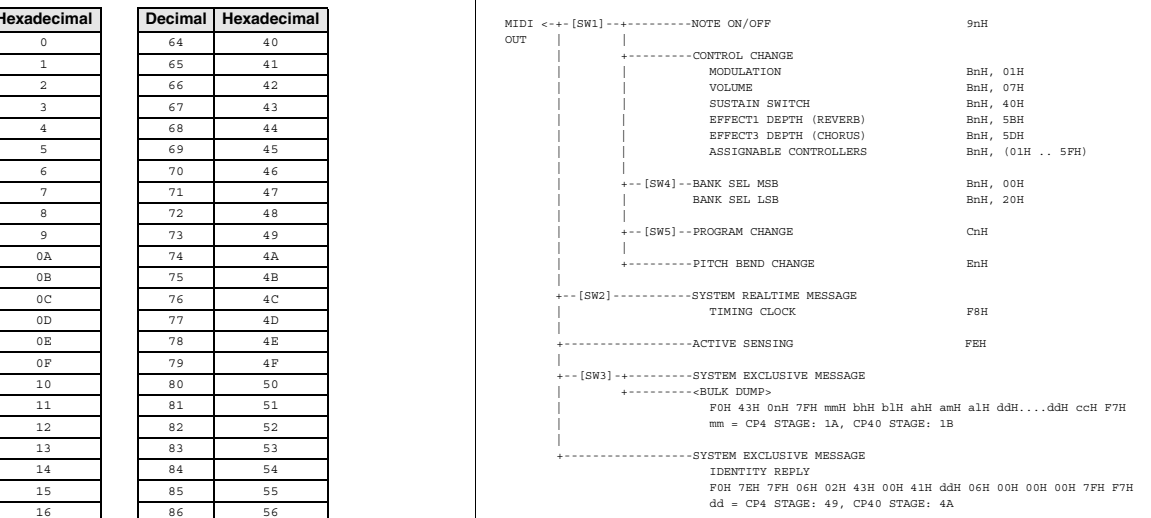
- bbH/0bbbbbbb indicates byte counts.

- ccH/0ccccccc indicates check sums.

- ddH/0ddddddd indicates data/value.

SYNTHESIZER/SEQUENCER PART

(1) TRANSMIT FLOW



[SW1] MIDI Transmit Channel
When Master Keyboard Switch is set to “off”, MIDI data is transmitted via the specified channel for the current Part.
When Master Keyboard Switch is set to “on”, MIDI data is transmitted via the corresponding zone transmit channels.
Program Change messages for changing Performances are transmitted over Basic Channel.
[SW2] MIDI Clock Out
[SW3] MIDI Device Number
When set to all, transmitted via 1.
[SW4] SYSTEM Transmit/Receive Bank Select
[SW5] SYSTEM Transmit/Receive Program Change

(2) RECEIVE FLOW

```
MIDI>-+-[SW1]--+---------NOTE OFF                          8nH
       |       |
       |       +---------NOTE ON/OFF                       9nH
       |       |
       |       +---------CONTROL CHANGE
       |       |            MODULATION                     BnH, 01H
       |       |            PORTAMENTO TIME                BnH, 05H
       |       |            DATA ENTRY MSB                 BnH, 06H
       |       |            DATA ENTRY LSB                 BnH, 26H
       |       |            VOLUME                         BnH, 07H
       |       |            PAN                            BnH, 0AH
       |       |            EXPRESSION                     BnH, 0BH
       |       |            SUSTAIN SWITCH                 BnH, 40H
       |       |            PORTAMENTO SWITCH              BnH, 41H
       |       |            SOSTENUTO                      BnH, 42H
       |       |            SOFT PEDAL                     BnH, 43H
       |       |            HARMONIC CONTENT               BnH, 47H
       |       |            EG RELEASE TIME                BnH, 48H
       |       |            EG ATTACK TIME                 BnH, 49H
       |       |            BRIGHTNESS                     BnH, 4AH
       |       |            EG DECAY TIME                  BnH, 4BH
       |       |            VIBRATO RATE                   BnH, 4CH
       |       |            VIBRATO DEPTH                  BnH, 4DH
       |       |            VIBRATO DELAY                  BnH, 4EH
       |       |            EFFECT1 DEPTH (REVERB)         BnH, 5BH
       |       |            EFFECT3 DEPTH (CHORUS)         BnH, 5DH
       |       |            DATA ENTRY INC                 BnH, 60H
       |       |            DATA ENTRY DEC                 BnH, 61H
       |       |            ASSIGNABLE CONTROLLER          BnH, (01H .. 5FH)
       |       |            RPN
       |       |                 PITCH BEND SENS.          BnH, 64H, 00H, 65H, 00H, 06H,
       |       |                                           mmH
       |       |                 FINE TUNING               BnH, 64H, 01H, 65H, 00H, 06H,
       |       |                                           mmH, 26H, llH
       |       |                 COARSE TUNING             BnH, 64H, 02H, 65H, 00H, 06H,
       |       |                                           mmH
       |       |                 RPN RESET                 BnH, 64H, 7FH, 65H, 7FH
       |       |
       |       +--[SW4]--BANK SEL MSB                      BnH, 00H
       |       |         BANK SEL LSB                      BnH, 20H
       |       |
       |       +---------CHANNEL MODE MESSAGE
       |       |            ALL SOUND OFF                  BnH, 78H
       |       |            RESET ALL CONTROLLERS          BnH, 79H
       |       |            ALL NOTE OFF                   BnH, 7BH
       |       |            OMNI MODE OFF                  BnH, 7CH
       |       |            OMNI MODE ON                   BnH, 7DH
       |       |            MONO MODE ON                   BnH, 7EH
       |       |            POLY MODE ON                   BnH, 7FH
       |       |
       |       +--[SW5]--PROGRAM CHANGE                    CnH
       |       |
       |       +---------PITCH BEND CHANGE                 EnH
       |
       +--[SW2]----------SYSTEM REALTIME MESSAGE
       |                    TIMING CLOCK                   F8H
       |
       +-----------------ACTIVE SENSING                    FEH
       |
       +--[SW3]-+---------SYSTEM EXCLUSIVE MESSAGE
       |        |
       |        +---------<BULK DUMP>
       |        |          F0H 43H 0nH 7FH mmH bhH blH ahH amH alH ddH....ddH ccH F7H
       |        |          mm = CP4 STAGE: 1A, CP40 STAGE: 1B
       |        |
       |        +---------<PARAMETER CHANGE>
       |        |          F0H 43H 1nH 7FH mmH ahH amH alH ddH.....ddH F7H
       |        |          mm = CP4 STAGE: 1A, CP40 STAGE: 1B
       |        |
       |        +---------<BULK DUMP REQUEST>
       |        |          F0H 43H 2nH 7FH mmH ahH amH alH F7H
       |        |          mm = CP4 STAGE: 1A, CP40 STAGE: 1B
       |        |
       |        +---------<PARAMETER REQUEST>
       |                   F0H 43H 3nH 7FH mmH ahH amH alH F7H
       |                   mm = CP4 STAGE: 1A, CP40 STAGE: 1B
       |
       +-----------------SYSTEM EXCLUSIVE MESSAGE
                           IDENTITY REQUEST               F0H 7EH 0nH 06H 01H F7H
```

[SW1] Complies with Part Receive Channel and Part Receive Switch.
The Program Change of the Performance complies with Basic Channel.
[SW2] MIDI Sync (can be set whether metronome playback or tempo-dependent effect parameters uses the internal Timing Clock, or external Timing Clock messages received via MIN IN.)
[SW3] MIDI Device Number
[SW4] SYSTEM Transmit/Receive Bank Select
[SW5] SYSTEM Transmit/Receive Program Change

(3) TRANSMIT/RECEIVE DATA

(3-1) CHANNEL VOICE MESSAGES

(3-1-1) NOTE OFF

```
STATUS              1000nnnn (8nH)          n = 0 - 15 CHANNEL NUMBER
NOTE No.            0kkkkkkk                k = 0 (C-2) - 127 (G8)
VELOCITY            0vvvvvvv                v: ignored
Receive only
```

(3-1-2) NOTE ON/OFF

```
STATUS              1001nnnn (9nH)          n = 0 - 15 CHANNEL NUMBER
NOTE NUMBER         0kkkkkkk                k = 0 (C-2) - 127 (G8)
VELOCITY NOTE ON    0vvvvvvv (v≠0)
         NOTE OFF   0vvvvvvv (v=0)
```

(3-1-3) CONTROL CHANGE

```
STATUS              1011nnnn (BnH)          n = 0 - 15 CHANNEL NUMBER
CONTROL NUMBER      0ccccccc
CONTROL VALUE       0vvvvvvv

*TRANSMITTED CONTROL NUMBER
c =  0              BANK SEL MSB            ; v = 63                          *3
c = 32              BANK SEL LSB            ; v = 0 - 80                      *3
c =  1              MODULATION              ; v = 0 - 127
c =  7              VOLUME                  ; v = 0 - 127
c = 64              SUSTAIN SWITCH          ; v = 0 - 127                     *5
c = 91              EFFECT1 DEPTH (REVERB)  ; v = 0 - 127
c = 93              EFFECT3 DEPTH (CHORUS)  ; v = 0 - 127
c = 0..95           ASSIGNABLE CONTROLLERS  ; v = 0 - 127                     *4

* RECEIVED CONTROL NUMBER
c =  0              BANK SEL MSB            ; v = 63                          *3
c = 32              BANK SEL LSB            ; v = 0 - 80                      *3
c =  1              MODULATION              ; v = 0 - 127
c =  5              PORTAMENTO TIME         ; v = 0 - 127                     *2
c =  6              DATA ENTRY MSB          ; v = 0 - 127                     *1
c = 38              DATA ENTRY LSB          ; v = 0 - 127                     *1
c =  7              VOLUME                  ; v = 0 - 127
c = 10              PAN                     ; v = 0 - 127
c = 11              EXPRESSION              ; v = 0 - 127
c = 64              SUSTAIN SWITCH          ; v = 0 - 127
c = 65              PORTAMENTO SWITCH       ; v = 0 - 63: OFF, 64 - 127: ON   *2
c = 66              SOSTENUTO               ; v = 0 - 63: OFF, 64 - 127: ON
c = 67              SOFT PEDAL              ; v = 0 - 63: OFF, 64 - 127: ON
c = 71              HARMONIC CONTENT        ; v = 0: -64 - 64: 0 - 127: +63
c = 72              EG RELEASE TIME         ; v = 0: -64 - 64: 0 - 127: +63   *2
c = 73              EG ATTACK TIME          ; v = 0: -64 - 64: 0 - 127: +63
c = 74              BRIGHTNESS              ; v = 0: -64 - 64: 0 - 127: +63
c = 75              EG DECAY TIME           ; v = 0: -64 - 64: 0 - 127: +63
c = 76              VIBRATO RATE            ; v = 0: -64 - 64: 0 - 127: +63
c = 77              VIBRATO DEPTH           ; v = 0: -64 - 64: 0 - 127: +63
c = 78              VIBRATO DELAY           ; v = 0: -64 - 64: 0 - 127: +63
c = 91              EFFECT1 DEPTH (REVERB)  ; v = 0 - 127
c = 93              EFFECT3 DEPTH (CHORUS)  ; v = 0 - 127
c = 96              DATA ENTRY INC          ; v = 127                         *1
c = 97              DATA ENTRY DEC          ; v = 127                         *1
c = 0..95           ASSIGNABLE CONTROLLER   ; v = 0 - 127                     *4
```

*1 Used only when a value is set using RPN.
*2 Invalid with Drum Voices.
*3 Relation between BANK CHANGE and PROGRAM is as follows:

CATEGORY	MSB	LSB	PROGRAM No.		
			CP4 STAGE	CP40 STAGE	
Normal Voice Preset 1	63	0	0..14	0..14	
Preset 2	63	1	0..14		*6
Preset 3	63	2	0..14		*6
Preset 4	63	3	0..14	0..34	
Preset 5	63	4	0..5		*6
Preset 6	63	5	0..25		*6
Preset 7	63	6	0..16	0..16	
Preset 8	63	7	0..49	0..31	
Preset 9	63	8	0..22	0..12	
Preset 10	63	9	0..28	0..20	
Preset 11	63	10	0..10	0..6	
Preset 12	63	11	0..45	0..38	
Preset 13	63	12	0..45	0..33	
Preset 14	63	13	0..42	0..30	
Preset 15	63	14	0..56	0..33	
Preset 16	63	15	0..4	0..4	
Drum Voice Preset	63	32	0..13	0..13	
Performance User	63	80	0..127	0..127	

*4 The default CONTROL NUMBERs of ASSIGNABLE CONTROLLER are as follows:

FOOT CONTROLLER 1	11	
FOOT CONTROLLER 2	4	*7
FOOT SWITCH	88	

*5 When *Sustain* is set to something other than "FC3 (Half On)," operating the foot switch transmits only values of 0 (off) or 127 (on).
*6 For CP4 STAGE only
*7 For CP4 STAGE only

PORTAMENTO TIME sets the time it takes for the pitch to reach the next note played when PORTAMENTO SWITCH is set to on.
0: shortest time; 127: longest time
PAN position relatively changes according to the preset value for each voice.
EFFECT1 DEPTH controls reverb send level.
EFFECT3 DEPTH controls chorus send level.
HARMONIC CONTENT adjusts the resonance preset for each voice.
Setting a value adds to or subtracts from the center value, 64, since it is an offset parameter.
The larger the value more resonant sound will be produced.
The effective range may be narrower than the range you can designate depending on the selected voice.
The parameters, EG ATTACK TIME, EG DECAY TIME, and EG RELEASE TIME, adjust the envelopes preset for each voice. Setting these values add to or subtract from the center value, 64, since these are offset parameters.
BRIGHTNESS adjusts the cutoff frequency preset for each voice. Setting a value adds to or subtracts from the center value, 64, since it is an offset parameter.
The smaller the value the cutoff frequency will be lowered.
The effective range may be narrower than the range you can designate depending on the selected voice.
Bank Select will be actually executed when the Program Change message is received.
Bank Select and Program Change numbers that are not supported by Yamaha will be ignored.

(3-1-4) PROGRAM CHANGE

```
STATUS              1100nnnn (CnH)          n = 0 - 15 CHANNEL NUMBER
PROGRAM NUMBER      0ppppppp                p = 0 - 127
```

(3-1-5) CHANNEL AFTER TOUCH

```
STATUS              1101nnnn (DnH)          n = 0 - 15 CHANNEL NUMBER
VALUE               0vvvvvvv                v = 0 - 127 AFTER TOUCH VALUE
```

(3-1-6) PITCH BEND CHANGE

```
STATUS              1110nnnn (EnH)          n = 0 - 15 CHANNEL NUMBER
LSB                 0vvvvvvv                PITCH BEND CHANGE LSB
MSB                 0vvvvvvv                PITCH BEND CHANGE MSB
Transmitted with a resolution of 7 bits.
```

(3-2) CHANNEL MODE MESSAGES

```
STATUS              1011nnnn (BnH)          n = 0 - 15 CHANNEL NUMBER
CONTROL NUMBER      0ccccccc                c = CONTROL NUMBER
CONTROL VALUE       0vvvvvvv                v = DATA VALUE
```

(3-2-1) ALL SOUND OFF (CONTROL NUMBER = 78H, DATA VALUE = 0)

All the sounds currently played including the channel messages such as note-on and hold-on in a certain channel are muted when receiving this message.

(3-2-2) RESET ALL CONTROLLERS (CONTROL NUMBER = 79H, DATA VALUE = 0)

Resets the values set for the following controllers.

PITCH BEND CHANGE	0 (center)	
MODULATION	0 (minimum)	
EXPRESSION	127 (maximum)	
FOOT CONTROLLER 1	0 (minimum)	
FOOT CONTROLLER 2	0 (minimum)	*8
SUSTAIN SWITCH	0 (off)	
SOSTENUTO SWITCH	0 (off)	
RPN	Not assigned; No change	

Doesn't reset the following data:
PROGRAM CHANGE, BANK SELECT MSB/LSB, VOLUME, PAN, HARMONIC CONTENT, RELEASE TIME, ATTACK TIME, DECAY TIME, BRIGHTNESS, EFFECT1 DEPTH, EFFECT3 DEPTH, PORTAMENTO SWITCH, PITCH BEND SENSITIVITY, FINE TUNING, COARSE TUNING

*8 For CP4 STAGE only

(3-2-3) ALL NOTE OFF (CONTROL NUMBER = 7BH, DATA VALUE = 0)

All the notes currently set to on in certain channel(s) are muted when receiving this message. However, if Sustain or Sostenuto is on, notes will continue sounding until these are turned off.

(3-2-4) OMNI MODE OFF (CONTROL NUMBER = 7CH, DATA VALUE = 0)

Performs the same function as when receiving ALL NOTES OFF.

(3-2-5) OMNI MODE ON (CONTROL NUMBER = 7DH, DATA VALUE = 0)

Performs the same function as when receiving ALL NOTES OFF.

(3-2-6) MONO (CONTROL NUMBER = 7EH, DATA VALUE = 0..16)

Performs the same function as when receiving ALL SOUNDS OFF. If the 3rd byte (mono) is within 0 through 16, the channel will be Mode 4 (m = 1).

(3-2-7) POLY (CONTROL NUMBER = 7FH, DATA VALUE = 0)

Performs the same function as when receiving ALL SOUNDS OFF. The channel will be Mode 3.

(3-3) REGISTERED PARAMETER NUMBER

```
STATUS              1011nnnn (BnH)      n = 0 - 15 CHANNEL NUMBER
LSB                 01100100 (64H)
RPN LSB             0ppppppp            p = RPN LSB (Refer to the table as shown below.)
MSB                 01100101 (65H)
RPN MSB             0qqqqqqq            q = RPN MSB (Refer to the table as shown below.)
DATA ENTRY MSB      00000110 (06H)
DATA VALUE          0mmmmmmm            m = Data Value
DATA ENTRY LSB      00100110 (26H)
DATA VALUE          0lllllll            l = Data Value
```

First, designate the parameter using RPN MSB/LSB numbers. Then, set its value with data entry MSB/LSB.

```
RPN     D.ENTRY
LSB MSB MSB LSB  PARAMETER NAME           DATA RANGE
00H 00H mmH ---  PITCH BEND SENSITIVITY   00H - 18H (0 - 12 semitones)
01H 00H mmH llH  MASTER FINE TUNE         {mmH,llH}={00H,00H}-{40H,00H}-{7FH,7FH}
                                          (-8192*100/8192) - 0 - (+8192*100/8192)
02H 00H mmH ---  MASTER COARSE TUNE       28H - 40H - 58H (-24 - 0 - +24 semitones)
7FH 7FH --- ---  RPN RESET
                 RPN numbers will be left not designated.
                 The internal values are not affected.
```

(3-4) NON-REGISTERED PARAMETER NUMBER

There are no applicable parameters.

(3-5) SYSTEM REAL TIME MESSAGES

(3-5-1) ACTIVE SENSING

```
STATUS              11111110 (FEH)
```

Transmitted at every 200 msec.
Once this code is received, the instrument starts sensing. When no status nor data is received for over approximately 350 ms, MIDI receiving buffer will be cleared, and the sounds currently played and the Sustain Switch are forcibly turned off. Also, the values of the Controllers are reset to the default settings.

(3-6) SYSTEM EXCLUSIVE MESSAGE

(3-6-1) UNIVERSAL NON REALTIME MESSAGE

(3-6-1-1) IDENTITY REQUEST (Receive only)

```
F0H 7EH 0nH 06H 01H F7H
("n" = Device No. However, this instrument receives under "omni.")
```

(3-6-1-2) IDENTITY REPLY (Transmit only)

```
F0H 7EH 7FH 06H 02H 43H 00H 41H ddH 06H 00H 00H 00H 7FH F7H

dd = CP4 STAGE: 49, CP40 STAGE: 4A
```

(3-6-2) PARAMETER CHANGE

(3-6-2-1) NATIVE PARAMETER CHANGE

```
11110000        F0              Exclusive Status
01000011        43              YAMAHA ID
0001nnnn        1n              Device Number
01111111        7F              Model ID
0*******        **              Model ID          CP4 STAGE: 1A, CP40 STAGE: 1B
0aaaaaaa        aaaaaaa         Address High
0aaaaaaa        aaaaaaa         Address Mid
0aaaaaaa        aaaaaaa         Address Low
0ddddddd        ddddddd         Data
|               |
11110111        F7              End of Exclusive
```

For parameters with data size of 2 or more, the appropriate number of data bytes will be transmitted.
See the following MIDI Data Table for Address.

(3-6-3) BULK DUMP

```
11110000        F0              Exclusive Status
01000011        43              YAMAHA ID
0000nnnn        0n              Device Number
01111111        7F              Model ID
0*******        **              Model ID          CP4 STAGE: 1A, CP40 STAGE: 1B
0bbbbbbb        bbbbbbb         Byte Count
0bbbbbbb        bbbbbbb         Byte Count
0aaaaaaa        aaaaaaa         Address High
0aaaaaaa        aaaaaaa         Address Mid
0aaaaaaa        aaaaaaa         Address Low
0               0               Data
|               |
0ccccccc        ccccccc         Check-sum
11110111        F7              End of Exclusive
```

See the following BULK DUMP Table for Address and Byte Count.
The Check sum is the value that results in a value of 0 for the lower 7 bits when the Byte Count, Start Address, Data and Check sum itself are added.

(3-6-4) DUMP REQUEST

```
11110000        F0              Exclusive Status
01000011        43              YAMAHA ID
0010nnnn        2n              Device Number
01111111        7F              Model ID
0*******        **              Model ID          CP4 STAGE: 1A, CP40 STAGE: 1B
0aaaaaaa        aaaaaaa         Address High
0aaaaaaa        aaaaaaa         Address Mid
0aaaaaaa        aaaaaaa         Address Low
11110111        F7              End of Exclusive
```

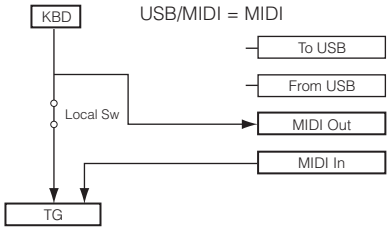
See the following DUMP REQUEST Table for Address and Byte Count.

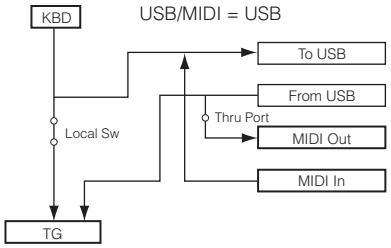
(3-6-5) PARAMETER REQUEST

```
11110000        F0              Exclusive Status
01000011        43              YAMAHA ID
0011nnnn        3n              Device Number
01111111        7F              Model ID
0*******        **              Model ID          CP4 STAGE: 1A, CP40 STAGE: 1B
0aaaaaaa        aaaaaaa         Address High
0aaaaaaa        aaaaaaa         Address Mid
0aaaaaaa        aaaaaaa         Address Low
11110111        F7              End of Exclusive
```

See the following MIDI Data Table for Address.

(4) SYSTEM OVERVIEW (Keyboard and Tone Generator)





Although two types of note on/note off data, received via MIDI and played on the keyboard will be distinguished, the other controllers (channel messages) equally affect the entire notes.

ALL SOUND OFF clears all the sounds in the specific channel(s) played by both the keyboard and the data via MIDI.
ALL NOTES OFF received via MIDI clears the sounds in the specific channel(s) played via MIDI.

MIDI Data Table

Bank Select

Available Bank Select/Program Change

MSB (HEX)		LSB (HEX)		Program No.		Type	Memory	Description
				CP4 STAGE	CP40 STAGE			
63	3F	0	00	0 – 14	0 – 14	Normal Voice	Preset 1	A.PIANO1
		1	01	0 – 14			Preset 2	A.PIANO2 (CP4 STAGE only)
		2	02	0 – 14			Preset 3	A.PIANO3 (CP4 STAGE only)
		3	03	0 – 14	0 – 34		Preset 4	E.PIANO1
		4	04	0 – 5			Preset 5	E.PIANO2 (CP4 STAGE only)
		5	05	0 – 25			Preset 6	E.PIANO3 (CP4 STAGE only)
		6	06	0 – 16	0 – 16		Preset 7	CLAV
		7	07	0 – 49	0 – 31		Preset 8	ORGAN
		8	08	0 – 22	0 – 12		Preset 9	CH.PERC
		9	09	0 – 28	0 – 20		Preset 10	STRINGS
		10	0A	0 – 10	0 – 6		Preset 11	CHOIR
		11	0B	0 – 45	0 – 38		Preset 12	PAD
		12	0C	0 – 45	0 – 33		Preset 13	SYNTH
		13	0D	0 – 42	0 – 30		Preset 14	BRASS
		14	0E	0 – 56	0 – 33		Preset 15	GUIT/BASS
		15	0F	0 – 4	0 – 4		Preset 16	OTHERS
		32	20	0 – 13	0 – 13	Drum Voice	PreDrum	OTHERS: DRUM
63	3F	80	50	0 – 127		Performance	User	

Parameter Base Address

Parameter Block	Top Address			Description
	High	Mid	Low	
SYSTEM	00	00	00	System
	00	05	00	Sequencer Setup
	00	20	00	Master EQ
	00	21	00	Master Comp
BULK CONTROL	0E	00	00	Header
	0F	00	00	Footer
STORE TO FLASH	11	00	00	Store To Flash
PERFORMANCE COMMON	36	00	00	Common
	36	01	00	Reverb
	36	02	00	Chorus
PERFORMANCE PART	37	pp	00	Part (pp = 00 – 02 (CP4 STAGE), 00 – 01 (CP40 STAGE))
	38	pp	00	Insertion A (pp = 00 – 02 (CP4 STAGE), 00 – 01 (CP40 STAGE))
	39	pp	00	Insertion B (pp = 00 – 02 (CP4 STAGE), 00 – 01 (CP40 STAGE))
PERFORMANCE ZONE	3A	zz	00	Zone (zz = 00 – 03)

pp: Part Number
zz: Zone Number

Bulk Dump Block

"Top Address" indicates the top address of each block designated by bulk dump operation.
"Byte Count" indicates the data size contained in each block designated by bulk dump operation.
The Block from the Bulk Header to the Bulk Footer of the Performance can be received regardless their order.
They can be received even if all of them are not transmitted.
They cannot be received if the irrelevant Block is included.
To execute 1 Performance bulk dump request, designate its corresponding Bulk Header address.
For the information about "mm" and "nn" shown in the following list, refer to MIDI PARAMETER CHANGE TABLE (BULK CONTROL).

Parameter Block		Description	Byte Count		Top Address		
			Dec	Hex	High	Mid	Low
SYSTEM		System	48	30	00	00	00
		Sequencer Setup	16	10	00	05	00
		Master EQ	20	14	00	20	00
		Master Comp	40	28	00	21	00
PERFORMANCE		Bulk Header	0	00	0E	mm	nn
	COMMON	Common	30	1E	36	00	00
		Reverb	40	28	36	01	00
		Chorus	41	29	36	02	00
	PART	Part 1	72	48	37	00	00
		:				:	
		Part 3				02	
		Part 1 Insertion A	40	28	38	00	00
		:				:	
		Part 3 Insertion A				02	
		Part 1 Insertion B	40	28	39	00	00
		:				:	
		Part 3 Insertion B				02	
	ZONE	Zone 1	16	10	3A	00	00
		:				:	
		Zone 4				03	
		Bulk Footer	0	00	0F	mm	nn

CP4 STAGE: Part 1 = MAIN Part, Part 2 = LAYER Part, Part 3 = SPLIT Part
CP40 STAGE: Part 1 = MAIN Part, Part 2 = SPLIT/LAYER Part

Message Type	Data
Parameter Change	F0, 43, 1n, id, id, ah, am, al, dt, … F7
Parameter Request	F0, 43, 3n, id, id, ah, am, al, F7
Bulk Dump	F0, 43, 0n, id, id, bh, bl, ah, am, al, dt, …, cc, F7
Bulk Request	F0, 43, 2n, id, id, ah, am, al, F7

n: Device Number
id: Model ID
bh: Byte Count High
bl: Byte Count Low
ah: Parameter Address High
am: Parameter Address Middle
al: Parameter Address Low
dt: Data
cc: Check Sum of Data

MIDI PARAMETER CHANGE TABLE (BULK CONTROL)

Address			Size	Data Range (HEX)	Parameter Name	Description	Default (HEX)	Notes
High	Mid	Low						
0E	50	nn	1	–	Bulk Header	Performance USER (nn = 0 – 127)	–	
	5F	nn	1	–		Performance Edit Buffer (nn = 0)	–	
0F	50	nn	1	–	Bulk Footer	Performance USER (nn = 0 – 127)	–	
	5F	nn	1	–		Performance Edit Buffer (nn = 0)	–	

MIDI PARAMETER CHANGE TABLE (SYSTEM)

Common parameters

Address			Size	Data Range	Parameter Name	Description	Default (HEX)	Notes
High	Mid	Low						
00	00	00	1	00 – 7F	reserved			
		01	1	28 – 58	reserved			
		02	4	00 – 00 00 – 07 00 – 0F 00 – 0F	Master Tune	-102.4 – +102.3 [cent] 1st bit 3-0: bit 15-12 2nd bit 3-0: bit 11-8 3rd bit 3-0: bit 7-4 4th bit 3-0: bit 3-0	00 04 00 00	
		06	1		reserved			
		07	1	34 - 4C	Master Transpose	-12 – +12 (semitones)	40	
		08	1		reserved			
		09	1	00 – 01	Local Switch	off, on	01	
		0A	1	00 – 0F, 7F	Basic Channel	1 – 16, off	00	
		0B	1		reserved			
		0C	1		reserved			
		0D	1		reserved			
		0E	1		reserved			
		0F	1		reserved			
		10	1	00 – 04	Keyboard Velocity Curve	normal, narrow, wide1, wide2, fixed	00	
		11	1	01 – 7F	Keyboard Fixed Velocity	1 – 127	40	
		12	1	00 – 01	Transmit/Receive Bank Select	off, on	01	
		13	1	00 – 01	Transmit/Receive Program Change	off, on	01	
		14	1		reserved			
		15	1	00 – 01	MIDI IN/OUT	MIDI, USB	01	
		16	1		reserved			
		17	1		reserved			
		18	1		reserved			
		19	1		reserved			
		1A	1		reserved			
		1B	1	00 – 01	Slider Function Display Switch	off, on	01	
		1C	1	00 – 07	Slider Display Time	off, 1, 1.5, 2, 3, 4, 5, keep [sec]	02	
		1D	1	00 – 7F	WAV Volume	0 – 127	7F	
		1E	1		reserved			
		1F	1		reserved			
		20	1		reserved			
		21	1	00 – 7F	Startup	001 – 128	00	
		22	1	00 – 07	LCD Contrast	1 – 8	06	
		23	1	00 – 01	Panel Lock Part	off, on	01	
		24	1	00 – 01	Panel Lock Voice Select	off, on	01	
		25	1	00 – 01	Panel Lock Audio	off, on	01	
		26	1	00 – 01	Panel Lock Transpose	off, on	01	
		27	1	00 – 01	Panel Lock Effect	off, on	01	
		28	1		reserved			
		29	1		reserved			
		2A	1		reserved			
		2B	1		reserved			
		2C	1	00 – 64	FS Control Number	off, 1 – 95, 98 (Play/Stop), 99 (PCInc), 100 (PCDec)	58	
		2D	1	00 – 5F	FC2 Control Number	off, 1 – 95	04	CP4 STAGE only
		2E	1	00 – 5F	FC1 Control Number	off, 1 – 95	0B	
		2F	1	00 – 02	Sustain Pedal Select	FC3 Half On, FC3 HalfOff, FC4/5	00	

TOTAL SIZE = 48 30 (HEX)

Sequencer parameters

Address			Size	Data Range	Parameter Name	Description	Default (HEX)	Notes
High	Mid	Low						
00	05	00	1	00 – 02	MIDI Sync	int, ext, auto	02	
		01	1		reserved			
		02	1		reserved			
		03	1		reserved			
		04	1		reserved			
		05	1		reserved			
		06	1	00 – 01	REC Auto Click	off, on	01	
		07	1	00 – 08	REC Pre Count	off, 1 – 8meas	01	
		08	1	00 – 01	MIDI Clock Out	off, on	01	
		09	1		reserved			
		0A	1		reserved			
		0B	1		reserved			
		0C	1		reserved			
		0D	1		reserved			
		0E	1		reserved			
		0F	1		reserved			

TOTAL SIZE = 16 10 (HEX)

Master EQ parameters

Address			Size	Data Range	Parameter Name	Description	Default (HEX)	Notes
High	Mid	Low						
00	20	00	1		reserved			
		01	1	04 – 28	EQ Frequency1	32Hz – 2.0kHz	0C	When *EQ Shape1* is set to "peak," the range is 63Hz (0x0A) – 2.0kHz.
		02	1	01 – 78	EQ Q1	0.1 – 12.0	07	
		03	1	00 – 01	EQ Shape1	shelv, peak	00	
		04	1		reserved			
		05	1	0E – 36	EQ Frequency2	100Hz – 10kHz	14	CP4 STAGE only
		06	1	01 – 78	EQ Q2	0.1 – 12.0	07	CP4 STAGE only
		07	1	00	NOT USED		00	
		08	1		reserved			
		09	1	0E – 36	EQ Frequency3	100Hz – 10kHz	1C	
		0A	1	01 – 78	EQ Q3	0.1 – 12.0	07	
		0B	1	00	NOT USED		00	
		0C	1		reserved			
		0D	1	0E – 36	EQ Frequency4	100Hz – 10kHz	2C	CP4 STAGE only
		0E	1	01 – 78	EQ Q4	0.1 – 12.0	07	CP4 STAGE only
		0F	1	00	NOT USED		00	
		10	1		reserved			
		11	1	1C – 3A	EQ Frequency5	500Hz – 16kHz	34	
		12	1	01 – 78	EQ Q5	0.1 – 12.0	07	
		13	1	00 – 01	EQ Shape5	shelv, peak	00	

TOTAL SIZE = 20 14 (HEX)

Master Compressor parameters

Address			Size	Data Range	Parameter Name	Description	Default (HEX)	Notes
High	Mid	Low						
00	21	00	2	08 20	reserved		08 20	
		02	1	00 – 7F	Preset Number		00	
		03	1		reserved			
		04	2	00 00 – 1D	Low Attack	1ms – 200ms	00 10	
		06	2	00 49 – 79	Low Threshold	-54dB – -6dB	00 60	
		08	2	00 00 – 07	Low Ratio	1.0 – 20.0	00 03	
		0A	2	00 00 – 37	Low Gain	-∞ – +18dB	00 28	
		0C	2	00 00 – 1D	Mid Attack	1ms – 200ms	00 0F	
		0E	2	00 49 – 79	Mid Threshold	-54dB – -6dB	00 5A	
		10	2	00 00 – 07	Mid Ratio	1.0 – 20.0	00 03	
		12	2	00 00 – 37	Mid Gain	-∞ – +18dB	00 27	
		14	2	00 00 – 1D	High Attack	1ms – 200ms	00 04	
		16	2	00 49 – 79	High Threshold	-54dB – -6dB	00 5A	
		18	2	00 00 – 07	High Ratio	1.0 – 20.0	00 03	
		1A	2	00 00 – 37	High Gain	-∞ – +18dB	00 27	
		1C	2	00 00 – 7C	Divide Freq Low	16.0Hz – 20.0kHz	00 34	
		1E	2	00 00 – 7C	Divide Freq High	16.0Hz – 20.0kHz	00 60	
		20	2	00 00 – 17	Common Release	10ms – 3000ms	00 06	
		22	2		reserved			
		24	1		reserved			
		25	1		reserved			
		26	1	00 – 01	MComp On/Off	off, on	00	
		27	1		reserved			

TOTAL SIZE = 40 28 (HEX)

MIDI PARAMETER CHANGE TABLE (PERFORMANCE COMMON)

Common parameters

Address			Size	Data Range	Parameter Name	Description	Default (HEX)	Notes
High	Mid	Low						
36	00	00	1	20 – 7F	Performance Name 1	32 – 127 (ASCII)	40	I
		01	1	20 – 7F	Performance Name 2	32 – 127 (ASCII)	6E	n
		02	1	20 – 7F	Performance Name 3	32 – 127 (ASCII)	69	i
		03	1	20 – 7F	Performance Name 4	32 – 127 (ASCII)	74	t
		04	1	20 – 7F	Performance Name 5	32 – 127 (ASCII)	20	
		05	1	20 – 7F	Performance Name 6	32 – 127 (ASCII)	50	P
		06	1	20 – 7F	Performance Name 7	32 – 127 (ASCII)	65	e
		07	1	20 – 7F	Performance Name 8	32 – 127 (ASCII)	72	r
		08	1	20 – 7F	Performance Name 9	32 – 127 (ASCII)	66	f
		09	1	20 – 7F	Performance Name 10	32 – 127 (ASCII)	20	
		0A	1		reserved			
		0B	1		reserved			
		0C	1		reserved			
		0D	1		reserved			
		0E	1	00 – 01	Layer Switch	off, on	00	
		0F	1	00 – 01	Split Switch	off, on	00	
		10	1	01 – 7F	Split Point	C#-2 – G8	3C	
		11	1	00 – 01	Master Keyboard Switch	off, on	00	
		12	1	00 – 01	FS Mode	momentary, latch	00	
		13	1		reserved			
		14	1		reserved			
		15	1		reserved			
		16	2	00 – 02 05 – 2C	Tempo	5 – 300	00 5A	
		18	1	00 – 2F	Metronome Beat	1/4 – 16/16	03	
		19	1	00 – 7F	Click Volume	0 – 127	64	
		1A	1		reserved			
		1B	1		reserved			
		1C	1		reserved			
		1D	1	00 – 06	Insertion Part Sw	bit 0: Part 1 off/on, bit 1: Part 2 off/on, bit 2: Part 3 off/on	03	Part 3 is for CP4 STAGE only. This parameter can be set to "on" for up to two Parts.

TOTAL SIZE = 30 1E (HEX)

CP4 STAGE: Part 1 = MAIN Part, Part 2 = LAYER Part, Part 3 = SPLIT Part
CP40 STAGE: Part 1 = MAIN Part, Part 2 = SPLIT/LAYER Part

Reverb parameters

Address			Size	Data Range (HEX)	Parameter Name	Description	Default (HEX)	Notes
High	Mid	Low						
36	01	00	2	00 – 7F 00 – 7F	Reverb Type	Refer to *Effect Type List.*	01 00	Rev-X Hall
		02	1		reserved			
		03	1		reserved			
		04	2	00 – 7F 00 – 7F	Reverb Parameter 1	Refer to *Effect Parameter List.*	Init value for Rev-X Hall / Basic	
		06	2	00 – 7F 00 – 7F	Reverb Parameter 2	:	Init value for Rev-X Hall / Basic	
		08	2	00 – 7F 00 – 7F	Reverb Parameter 3	:	Init value for Rev-X Hall / Basic	
		0A	2	00 – 7F 00 – 7F	Reverb Parameter 4	:	Init value for Rev-X Hall / Basic	
		0C	2	00 – 7F 00 – 7F	Reverb Parameter 5	:	Init value for Rev-X Hall / Basic	
		0E	2	00 – 7F 00 – 7F	Reverb Parameter 6	:	Init value for Rev-X Hall / Basic	
		10	2	00 – 7F 00 – 7F	Reverb Parameter 7	:	Init value for Rev-X Hall / Basic	
		12	2	00 – 7F 00 – 7F	Reverb Parameter 8	:	Init value for Rev-X Hall / Basic	
		14	2	00 – 7F 00 – 7F	Reverb Parameter 9	:	Init value for Rev-X Hall / Basic	
		16	2	00 – 7F 00 – 7F	Reverb Parameter 10	:	Init value for Rev-X Hall / Basic	
		18	2	00 – 7F 00 – 7F	Reverb Parameter 11	:	Init value for Rev-X Hall / Basic	
		1A	2	00 – 7F 00 – 7F	Reverb Parameter 12	:	Init value for Rev-X Hall / Basic	
		1C	2	00 – 7F 00 – 7F	Reverb Parameter 13	:	Init value for Rev-X Hall / Basic	
		1E	2	00 – 7F 00 – 7F	Reverb Parameter 14	:	Init value for Rev-X Hall / Basic	
		20	2	00 – 7F 00 – 7F	Reverb Parameter 15	:	Init value for Rev-X Hall / Basic	
		22	2	00 – 7F 00 – 7F	Reverb Parameter 16	:	Init value for Rev-X Hall / Basic	
		24	1		reserved			
		25	1		reserved			
		26	1	00 – 01	Reverb Switch	off, on	01	
		27	1		reserved			

TOTAL SIZE = 40 28 (HEX)

Chorus parameters

Address			Size	Data Range (HEX)	Parameter Name	Description	Default (HEX)	Notes
High	Mid	Low						
36	02	00	2	00 – 7F 00 – 7F	Chorus Type	Refer to *Effect Type List.*	03 10	2 Modulator
		02	1	00 – 7F	Preset Number		00	Basic
		03	1		reserved			
		04	2	00 – 7F 00 – 7F	Chorus Parameter 1	Refer to *Effect Parameter List.*	Init value for G Chorus / Basic	
		06	2	00 – 7F 00 – 7F	Chorus Parameter 2	:	Init value for G Chorus / Basic	
		08	2	00 – 7F 00 – 7F	Chorus Parameter 3	:	Init value for G Chorus / Basic	
		0A	2	00 – 7F 00 – 7F	Chorus Parameter 4	:	Init value for G Chorus / Basic	
		0C	2	00 – 7F 00 – 7F	Chorus Parameter 5	:	Init value for G Chorus / Basic	
		0E	2	00 – 7F 00 – 7F	Chorus Parameter 6	:	Init value for G Chorus / Basic	
		10	2	00 – 7F 00 – 7F	Chorus Parameter 7	:	Init value for G Chorus / Basic	
		12	2	00 – 7F 00 – 7F	Chorus Parameter 8	:	Init value for G Chorus / Basic	
		14	2	00 – 7F 00 – 7F	Chorus Parameter 9	:	Init value for G Chorus / Basic	
		16	2	00 – 7F 00 – 7F	Chorus Parameter 10	:	Init value for G Chorus / Basic	
		18	2	00 – 7F 00 – 7F	Chorus Parameter 11	:	Init value for G Chorus / Basic	
		1A	2	00 – 7F 00 – 7F	Chorus Parameter 12	:	Init value for G Chorus / Basic	
		1C	2	00 – 7F 00 – 7F	Chorus Parameter 13	:	Init value for G Chorus / Basic	
		1E	2	00 – 7F 00 – 7F	Chorus Parameter 14	:	Init value for G Chorus / Basic	
		20	2	00 – 7F 00 – 7F	Chorus Parameter 15	:	Init value for G Chorus / Basic	
		22	2	00 – 7F 00 – 7F	Chorus Parameter 16	:	Init value for G Chorus / Basic	
		24	1		reserved			
		25	1		reserved			
		26	1		reserved			
		27	1	00 – 01	Chorus Switch	off, on	01	
		28	1		reserved			

TOTAL SIZE = 41 29 (HEX)

MIDI PARAMETER CHANGE TABLE (PERFORMANCE PART)

Part parameters

Address			Size	Data Range	Parameter Name	Description	Default (HEX)	Notes
High	Mid	Low						
37	pp	00	1	00 – 7F	Bank Select MSB	0 – 127	3F	
		01	1	00 – 7F	Bank Select LSB	0 – 127	00	
		02	1	00 – 7F	Program Number	1 – 128	00	
		03	1	00 – 7F	Receive Channel	1..16, off (7F)	00 – 02 (CP4 STAGE) 00 – 01 (CP40 STAGE)	This parameter can be set only via MIDI.
		04	1	00 – 01	Part Mode	mono, poly	01	
		05	1	00 – 7F	Note Limit Low	C-2 – G8	00	The upper limit is defined by the setting of *Note Limit High*. This parameter can be set only via MIDI.
		06	1	00 – 7F	Note Limit High	C-2 – G8	7F	The lower limit is defined by the setting of *Note Limit Low*. This parameter can be set only via MIDI.
		07	1	00 – 06	Micro Tuning	Equal, PureMajor, PureMinor, Pythagorean, Meantone, Werckmeister, Kirnberger	00	
		08	1	00 – 0B	Micro Tuning Root	C – B	00	
		09	1		reserved			
		0A	1		reserved			
		0B	1	00 – 7F	Velocity Sens Depth	0 – 127	40	
		0C	1	00 – 7F	Velocity Send Offset	0 – 127	40	
		0D	1	00 – 7F	Volume	0 – 127	64	
		0E	1	01 – 7F	Pan	L63 – C – R63	40	
		0F	1	00 – 0C	Pitch Bend Range	0 – 12	02	
		10	2	00 – 0F 00 – 0F	Detune MSB Detune LSB	-12.8 – +12.7 [Hz] 1st bit 3-0: bit 7-4, 2nd bit 3-0: bit 3-0	08 00	
		12	1	00 – 7F	Reverb Send	0 – 127	28	
		13	1	00 – 7F	Chorus Send	0 – 127	00	
		14	1		reserved			
		15	1	28 – 58	Note Shift	-24 – +24 [semitones]	40	
		16	1	00 – 7F	Filter Cutoff Frequency	-64 – +63	40	
		17	1	00 – 7F	Filter Resonance/ Width	-64 – +63	40	
		18	1		reserved			
		19	1	00 – 01	Portamento Switch	off, on	00	
		1A	1	00 – 7F	Portamento Time	0 – 127	40	
		1B	1	00 – 01	Portamento Mode	finger, full	01	
		1C	1		reserved			
		1D	1	00 – 7F	LFO Speed	-64 – +63	40	
		1E	1	00 – 7F	LFO Pitch Modulation Depth	-64 – +63	40	
		1F	1	00 – 7F	LFO Delay	-64 – +63	40	
		20	1		reserved			
		21	1		reserved			
		22	1		reserved			
		23	1		reserved			
		24	1		reserved			
		25	1	00 – 7F	Attack Time	-16 – +16	40	
		26	1	00 – 7F	Decay Time	-16 – +16	40	
		27	1	00 – 7F	Release Time	-16 – +16	40	
		28	1	30 – 50	Key-off Sound Volume	-16 – +16	40	
		29	1		reserved			
		2A	1	3D – 43	Striking Position	top3, top2, top1, default, rear1, rear2, rear3	40	
		2B	1	00 – 7F	Gain	0 – 127	64	
		2C	1		reserved			
		2D	1		reserved			
		2E	1	00 – 7F	MW Pitch Modulation Depth	0 – 127	0A	
		2F	1	00 – 7F	MW Filter Modulation Depth	0 – 127	00	
		30	1	00 – 7F	MW Amp Modulation Depth	0 – 127	00	
		31	1		reserved			
		32	1		reserved			
		33	1		reserved			
		34	1	00 – 04	Controller Destination PB	off, EffA(+), EffA(-), EffB(+), EffB(-)	00	
		35	1	00 – 04	Controller Destination MW	off, EffA(+), EffA(-), EffB(+), EffB(-)	00	
		36	1	00 – 05	Controller Destination FC1	off, EffA(+), EffA(-), EffB(+), EffB(-), volume	00	
		37	1	00 – 05	Controller Destination FC2	off, EffA(+), EffA(-), EffB(+), EffB(-), volume	00	CP4 STAGE only
		38	1	00 – 02	Controller Destination FS	off, EffA, EffB	00	
		39	1		reserved			
		3A	1		reserved			
		3B	1		reserved			
		3C	1		reserved			
		3D	1	00 – 01	Receive Program Change	off, on	01	
		3E	1	00 – 01	Receive Bank Select	off, on	01	
		3F	1	00 – 01	Receive Control Change	off, on	01	
		40	1	00 – 01	Receive PB	off, on	01	
		41	1	00 – 01	Receive MW	off, on	01	
		42	1	00 – 01	Receive FC1	off, on	01	
		43	1	00 – 01	Receive FC2	off, on	01	CP4 STAGE only
		44	1	00 – 01	Receive FS	off, on	01	
		45	1	00 – 01	Receive Sustain	off, on	01	
		46	1	00 – 01	Receive Volume	off, on	01	
		47	1	00 – 01	Receive Pan	off, on	01	

TOTAL SIZE = 72 48 (HEX)

pp = Part Number
CP4 STAGE: 00 – 02 (HEX)
CP40 STAGE: 00 – 01 (HEX)

Insertion-A parameters

Address			Size	Data Range	Parameter Name	Description	Default (HEX)	Notes
High	Mid	Low						
38	pp	00	2	00 – 7F 00 – 7F	Insertion A Type	Refer to *Effect Type List*.	00 00	
		02	1	00 – 7F	Preset Number		00	
		03	1		reserved			
		04	2	00 – 7F 00 – 7F	Insertion A Parameter 1	Refer to *Effect Parameter List*.	00 00	
		06	2	00 – 7F 00 – 7F	Insertion A Parameter 2	:	00 00	
		08	2	00 – 7F 00 – 7F	Insertion A Parameter 3	:	00 00	
		0A	2	00 – 7F 00 – 7F	Insertion A Parameter 4	:	00 00	
		0C	2	00 – 7F 00 – 7F	Insertion A Parameter 5	:	00 00	
		0E	2	00 – 7F 00 – 7F	Insertion A Parameter 6	:	00 00	
		10	2	00 – 7F 00 – 7F	Insertion A Parameter 7	:	00 00	
		12	2	00 – 7F 00 – 7F	Insertion A Parameter 8	:	00 00	
		14	2	00 – 7F 00 – 7F	Insertion A Parameter 9	:	00 00	
		16	2	00 – 7F 00 – 7F	Insertion A Parameter 10	:	00 00	
		18	2	00 – 7F 00 – 7F	Insertion A Parameter 11	:	00 00	
		1A	2	00 – 7F 00 – 7F	Insertion A Parameter 12	:	00 00	
		1C	2	00 – 7F 00 – 7F	Insertion A Parameter 13	:	00 00	
		1E	2	00 – 7F 00 – 7F	Insertion A Parameter 14	:	00 00	
		20	2	00 – 7F 00 – 7F	Insertion A Parameter 15	:	00 00	
		22	2	00 – 7F 00 – 7F	Insertion A Parameter 16	:	00 00	
		24	1		reserved			
		25	1		reserved			
		26	1	00 – 01	Insertion A On/Off	off, on	01	
		27	1		reserved			

TOTAL SIZE =40 28 (HEX)

pp = Part Number
CP4 STAGE: 00 – 02 (HEX)
CP40 STAGE: 00 – 01 (HEX)

Insertion-B parameters

Address			Size	Data Range	Parameter Name	Description	Default (HEX)	Notes
High	Mid	Low						
39	pp	00	2	00 – 7F 00 – 7F	Insertion B Type	Refer to *Effect Type List.*	00 00	
		02	1	00 – 7F	Preset Number		00	
		03	1		reserved			
		04	2	00 – 7F 00 – 7F	Insertion B Parameter 1	Refer to *Effect Parameter List.*	00 00	
		06	2	00 – 7F 00 – 7F	Insertion B Parameter 2	:	00 00	
		08	2	00 – 7F 00 – 7F	Insertion B Parameter 3	:	00 00	
		0A	2	00 – 7F 00 – 7F	Insertion B Parameter 4	:	00 00	
		0C	2	00 – 7F 00 – 7F	Insertion B Parameter 5	:	00 00	
		0E	2	00 – 7F 00 – 7F	Insertion B Parameter 6	:	00 00	
		10	2	00 – 7F 00 – 7F	Insertion B Parameter 7	:	00 00	
		12	2	00 – 7F 00 – 7F	Insertion B Parameter 8	:	00 00	
		14	2	00 – 7F 00 – 7F	Insertion B Parameter 9	:	00 00	
		16	2	00 – 7F 00 – 7F	Insertion B Parameter 10	:	00 00	
		18	2	00 – 7F 00 – 7F	Insertion B Parameter 11	:	00 00	
		1A	2	00 – 7F 00 – 7F	Insertion B Parameter 12	:	00 00	
		1C	2	00 – 7F 00 – 7F	Insertion B Parameter 13	:	00 00	
		1E	2	00 – 7F 00 – 7F	Insertion B Parameter 14	:	00 00	
		20	2	00 – 7F 00 – 7F	Insertion B Parameter 15	:	00 00	
		22	2	00 – 7F 00 – 7F	Insertion B Parameter 16	:	00 00	
		24	1		reserved			
		25	1		reserved			
		26	1	00 – 01	Insertion B On/Off	off, on	01	
		27	1		reserved			

TOTAL SIZE =40 28 (HEX)

pp = Part Number
CP4 STAGE: 00 – 02 (HEX)
CP40 STAGE: 00 – 01 (HEX)

MIDI PARAMETER CHANGE TABLE (PERFORMANCE ZONE)

Zone parameters

Address			Size	Data Range	Parameter Name	Description	Default (HEX)	Notes
High	Mid	Low						
3A	zz	00	1	00 – 1F	Transmit Channel, Zone Switch	bit 0-3: Ch1 – 16 bit 4: Zone Switch: off, on	00 – 03	Default = Zone1: 10, Zone2: 01, Zone3: 02, Zone4: 03
		01	1	3D – 43	Transpose (Octave)	-3 – +3	40	
		02	1	35 – 4B	Transpose (Semitone)	-11 – +11	40	
		03	1	00 – 7F	Note Limit Low	C-2 – G8	00	The upper limit is defined by the setting of *Note Limit High.*
		04	1	00 – 7F	Note Limit High	C-2 – G8	7F	The lower limit is defined by the setting of *Note Limit Low.*
		05	1		reserved			
		06	1		reserved			
		07	1	00 – 7F	MIDI Volume	0 – 127	7F	
		08	1	00 – 7F	MIDI Pan	L64 – C – R63	40	
		09	1	00 – 7F	MIDI Bank MSB	000 – 127	00	
		0A	1	00 – 7F	MIDI Bank LSB	000 – 127	00	
		0B	1	00 – 7F	MIDI Program Number	001 – 128	00	
		0C	1	00 – 0F	Transmit Bank Select Transmit Program Change Transmit Volume Transmit Pan	bit 0: off, on Bank Select bit 1: off, on Program Change bit 2: off, on Volume bit 3: off, on Pan	0F	• If *Transmit Program Change* is not set to "on", Bank MSB and LSB (CC #00 and #20) will not be transmitted, even when *Transmit Bank Select* is set to "on". • When *Transmit Volume* is set to "off", no Expression messages (CC #11) will be generated.
		0D	1	00 – 3F	Transmit PB Transmit MW Transmit FC1 Transmit FC2 Transmit FS Transmit Sus	bit 0: off, on PB bit 1: off, on MW bit 2: off, on FC1 bit 3: off, on FC2 bit 4: off, on FS bit 5: off, on Sus	3F	bit 3 FC2: CP4 STAGE only
		0E	1	00 – 03	Transmit SLIDER	off, MAIN, LAYER, SPLIT	00	For CP40 STAGE, the range is 00 – 02, and 02 is expressed as "SP/LA".
		0F	1		reserved			

TOTAL SIZE = 16 10 (HEX)

zz = Zone Number
00 – 03 (HEX)

YAMAHA [Stage Piano] Date :14-NOV-2012
Model CP4 STAGE/CP40 STAGE MIDI Implementation Chart Version : 1.0

Function...		Transmitted	Recognized	Remarks
Basic Channel	Default	1 - 16	1 - 16	Memorized
	Changed	1 - 16	1 - 16	
Mode	Default	3	1	Memorized
	Messages	X	1 - 4(m=1) *2	
	Altered	**********	X	
Note Number : True voice		0 - 127	0 - 127	Transpose
		**********	0 - 127	
Velocity	Note ON	O 9nH,v=1-127	O v=1-127	
	Note OFF	X 9nH,v=0	X	
After Touch	Key's	X	X	
	Ch's	X	X	
Pitch Bend		O	O *1	
Control Change	0,32	O	O *1	Bank Select
	1,7,10,11	O	O *1	
	5	X	O *1	Portamento Time
	6,38	X	O *1	Data Entry
	64	O	O *1	Sustain Sw
	65	X	O *1	Portamento Sw
	66	X	O *1	Sostenuto
	67	X	O *1	Soft Pedal
	71-75	O	O *1	Sound Controller
	91,93	O	O *1	Effect Depth
	96-97	X	O *1	RPN Inc,Dec
	100-101	X	O *1	RPN LSB,MSB
	1-95	O	O *1	Assignable Cntrl
Prog Change : True #		O 0 - 127	O 0 - 127	
		**********	0 - 127	
System Exclusive		O	O	
Common	: Song Pos.	X	X	
	: Song Sel.	X	X	
	: Tune	X	X	
System Real Time	: Clock	X	O	
	: Commands	X	X	
Aux Mes- sages	: All Sound Off	X	O (120,126,127)	
	: Reset All Cntrls	X	O (121)	
	: Local ON/OFF	X	X	
	: All Notes OFF	X	O (123-125)	
	: Active Sense	O	O	
	: Reset	X	X	

Notes: *1 Recognized if receive switch is on.
*2 "m" is always treated as "1" regardless of its actual value.

Mode 1 : OMNI ON , POLY Mode 2 : OMNI ON ,MONO O : Yes
Mode 3 : OMNI OFF, POLY Mode 4 : OMNI OFF,MONO X : No

Yamaha Web Site (English only)
http://www.yamahasynth.com/
Yamaha Downloads
http://download.yamaha.com/

C.S.G., Digital Musical Instruments Division

306MW-A0