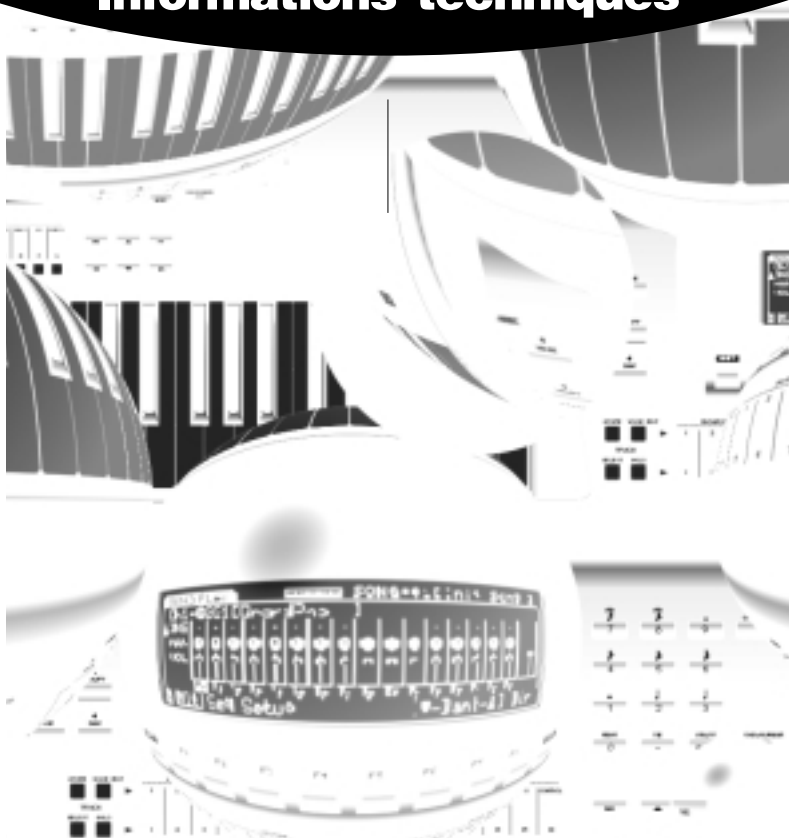


MUSIC SYNTHESIZER

WS/W7

Technical Information
Handbuch "Technical Information"
Informations techniques



YAMAHA

NORMAL VOICE LIST

Normal-Voice-Liste
Liste des Sonorités Normales

GM Voice List

VOICE			INSERTION EFFECT		MIDI CONTROL					
Voice Number	Voice Category	Voice Name	Effect Mode	Effect Type	MC 1			MC 2		
					Device	Parameter	Enable*	Device	Parameter	Enable*
GM(001)	Pf	GrandPno	off	3 Band EQ	ModWheel	off	_---	ModWheel	off	_---
GM(002)	Pf	BritePno	off	3 Band EQ	ModWheel	off	_---	ModWheel	off	_---
GM(003)	Pf	E.Grand	off	3 Band EQ	ModWheel	off	_---	ModWheel	off	_---
GM(004)	Pf	HnkyTonk	off	3 Band EQ	ModWheel	off	__--	ModWheel	off	__--
GM(005)	Pf	E.Piano1	off	3 Band EQ	ModWheel	off	_---	ModWheel	off	_---
GM(006)	Pf	E.Piano2	off	3 Band EQ	ModWheel	off	_---	ModWheel	off	_---
GM(007)	Pf	Harpsi	off	3 Band EQ	ModWheel	off	_---	ModWheel	off	_---
GM(008)	Pf	Clavi.	off	3 Band EQ	ModWheel	off	_---	ModWheel	off	_---
GM(009)	Pf	Celesta	off	3 Band EQ	ModWheel	off	_---	ModWheel	off	_---
GM(010)	Cp	Glocken	off	3 Band EQ	ModWheel	off	_---	ModWheel	off	_---
GM(011)	Cp	MusicBox	off	3 Band EQ	ModWheel	off	__--	ModWheel	off	__--
GM(012)	Cp	Vibes	off	3 Band EQ	ModWheel	off	_---	ModWheel	off	_---
GM(013)	Cp	Marimba	off	3 Band EQ	ModWheel	off	_---	ModWheel	off	_---
GM(014)	Cp	Xylophone	off	3 Band EQ	ModWheel	off	_---	ModWheel	off	_---
GM(015)	Cp	TubulBel	off	3 Band EQ	ModWheel	off	_---	ModWheel	off	_---
GM(016)	Cp	Dulcimer	off	3 Band EQ	ModWheel	off	_---	ModWheel	off	_---
GM(017)	Or	DrawOrgn	off	3 Band EQ	ModWheel	off	_---	ModWheel	off	_---
GM(018)	Or	PercOrgn	off	3 Band EQ	ModWheel	off	_---	ModWheel	off	_---
GM(019)	Or	RockOrgn	off	3 Band EQ	ModWheel	off	__--	ModWheel	off	__--
GM(020)	Or	ChrchOrg	off	3 Band EQ	ModWheel	off	_---	ModWheel	off	_---
GM(021)	Or	ReedOrgn	off	3 Band EQ	ModWheel	off	_---	ModWheel	off	_---
GM(022)	Or	Acordion	off	3 Band EQ	ModWheel	off	__--	ModWheel	off	__--
GM(023)	Or	Harmnica	off	3 Band EQ	ModWheel	off	_---	ModWheel	off	_---
GM(024)	Or	TangoAcid	off	3 Band EQ	ModWheel	off	__--	ModWheel	off	__--
GM(025)	Gt	NylonGtr	off	3 Band EQ	ModWheel	off	_---	ModWheel	off	_---
GM(026)	Gt	SteelGtr	off	3 Band EQ	ModWheel	off	_---	ModWheel	off	_---
GM(027)	Gt	Jazz Gtr	off	3 Band EQ	ModWheel	off	_---	ModWheel	off	_---
GM(028)	Gt	CleanGtr	off	3 Band EQ	ModWheel	off	_---	ModWheel	off	_---
GM(029)	Gt	Mute.Gtr	off	3 Band EQ	ModWheel	off	_---	ModWheel	off	_---
GM(030)	Gt	Ovrdrive	off	3 Band EQ	ModWheel	off	_---	ModWheel	off	_---
GM(031)	Gt	Dist.Gtr	off	3 Band EQ	ModWheel	off	_---	ModWheel	off	_---
GM(032)	Gt	GtrHarmo	off	3 Band EQ	ModWheel	off	_---	ModWheel	off	_---
GM(033)	Ba	Aco.Bass	off	3 Band EQ	ModWheel	off	_---	ModWheel	off	_---
GM(034)	Ba	FngrBass	off	3 Band EQ	ModWheel	off	_---	ModWheel	off	_---
GM(035)	Ba	PickBass	off	3 Band EQ	ModWheel	off	_---	ModWheel	off	_---
GM(036)	Ba	Fretless	off	3 Band EQ	ModWheel	off	_---	ModWheel	off	_---
GM(037)	Ba	SlapBas1	off	3 Band EQ	ModWheel	off	_---	ModWheel	off	_---
GM(038)	Ba	SlapBas2	off	3 Band EQ	ModWheel	off	_---	ModWheel	off	_---
GM(039)	Ba	SynBass1	off	3 Band EQ	ModWheel	off	_---	ModWheel	off	_---
GM(040)	Ba	SynBass2	off	3 Band EQ	ModWheel	off	__--	ModWheel	off	__--
GM(041)	St	Violin	off	3 Band EQ	ModWheel	off	_---	ModWheel	off	_---
GM(042)	St	Viola	off	3 Band EQ	ModWheel	off	_---	ModWheel	off	_---
GM(043)	St	Cello	off	3 Band EQ	ModWheel	off	_---	ModWheel	off	_---
GM(044)	St	Contrabs	off	3 Band EQ	ModWheel	off	_---	ModWheel	off	_---
GM(045)	St	Trem.Str	off	3 Band EQ	ModWheel	off	_---	ModWheel	off	_---
GM(046)	St	Pizz.Str	off	3 Band EQ	ModWheel	off	_---	ModWheel	off	_---

*The "Enable" column indicates Element on/off and MIDI control status, where 1,2,3 and 4 represent Elements 1,2,3 and 4, respectively. A horizontal line at the baseline ("_") or a number indicates that an element is turned on, with the number indicating that the element can be controlled by MIDI, and the horizontal line indicating that it cannot. A horizontal dash ("-") indicates that the element is turned off. For example, an Enable situation coded with "12_-" indicates that Elements 1, 2 and 3 are turned on, with Elements 1 and 2 able to be controlled by MIDI. Element 4 is turned off.

ELEMENT															
Element 1				Element 2				Element 3				Element 4			
Element Bank	Element Number	Element Category	Element Name	Element Bank	Element Number	Element Category	Element Name	Element Bank	Element Number	Element Category	Element Name	Element Bank	Element Number	Element Category	Element Name
P1	2	Pf	A.Piano2	off	--	--		off	--	--		off	--	--	
P1	1	Pf	A.Piano1	off	--	--		off	--	--		off	--	--	
P1	11	Pf	E.Grand3	off	--	--		off	--	--		off	--	--	
P1	36	Pf	Harpsi1	P1	1	Pf	A.Piano1	off	--	--		off	--	--	
P1	12	Pf	EP1	off	--	--		off	--	--		off	--	--	
P1	16	Pf	EP5	off	--	--		off	--	--		off	--	--	
P1	36	Pf	Harpsi1	off	--	--		off	--	--		off	--	--	
P1	32	Pf	Clav3	off	--	--		off	--	--		off	--	--	
P1	51	Cp	Clste1	off	--	--		off	--	--		off	--	--	
P1	60	Cp	Glock1	off	--	--		off	--	--		off	--	--	
P1	53	Cp	Clste3	P1	56	Cp	Vibe1	off	--	--		off	--	--	
P1	59	Cp	Vibe4	off	--	--		off	--	--		off	--	--	
P1	65	Cp	Marimba	off	--	--		off	--	--		off	--	--	
P1	66	Cp	Xylophne	off	--	--		off	--	--		off	--	--	
P1	63	Cp	TublBl	off	--	--		off	--	--		off	--	--	
P1	55	Cp	Dulsim	off	--	--		off	--	--		off	--	--	
P1	84	Or	Organ10	off	--	--		off	--	--		off	--	--	
P1	75	Or	Organ1	off	--	--		off	--	--		off	--	--	
P1	85	Or	Organ11	P1	85	Or	Organ11	off	--	--		off	--	--	
P1	91	Or	Reed2	off	--	--		off	--	--		off	--	--	
P1	92	Or	Reed3	off	--	--		off	--	--		off	--	--	
P1	89	Or	Accrdion	P1	89	Or	Accrdion	off	--	--		off	--	--	
P1	88	Or	Harmoni2	off	--	--		off	--	--		off	--	--	
P1	89	Or	Accrdion	P1	92	Or	Reed3	off	--	--		off	--	--	
P1	97	Gt	Nylon1	off	--	--		off	--	--		off	--	--	
P1	100	Gt	Steel1	off	--	--		off	--	--		off	--	--	
P1	110	Gt	Jazz2	off	--	--		off	--	--		off	--	--	
P1	103	Gt	Clean1	off	--	--		off	--	--		off	--	--	
P1	116	Gt	Mute1	off	--	--		off	--	--		off	--	--	
P1	121	Gt	OvDrv1	off	--	--		off	--	--		off	--	--	
P1	119	Gt	Dist1	off	--	--		off	--	--		off	--	--	
P1	124	Gt	Harm2	off	--	--		off	--	--		off	--	--	
P1	132	Ba	AccBass2	off	--	--		off	--	--		off	--	--	
P1	133	Ba	FingerBs	off	--	--		off	--	--		off	--	--	
P1	135	Ba	PickBs2	off	--	--		off	--	--		off	--	--	
P1	142	Ba	Fretls2	off	--	--		off	--	--		off	--	--	
P1	149	Ba	SlapBs2	off	--	--		off	--	--		off	--	--	
P1	147	Ba	TumpBs5	off	--	--		off	--	--		off	--	--	
P1	153	Ba	SynBs4	off	--	--		off	--	--		off	--	--	
P1	158	Ba	SynBs9	P1	139	Ba	AlenBs4	off	--	--		off	--	--	
P1	184	St	Violin1	off	--	--		off	--	--		off	--	--	
P1	186	St	Viola1	off	--	--		off	--	--		off	--	--	
P1	188	St	Cello	off	--	--		off	--	--		off	--	--	
P1	189	St	Contra	off	--	--		off	--	--		off	--	--	
P1	178	St	TrmStr	off	--	--		off	--	--		off	--	--	
P1	191	St	Pizz	off	--	--		off	--	--		off	--	--	

VOICE			INSERTION EFFECT		MIDI CONTROL					
Voice Number	Voice Category	Voice Name	Effect Mode	Effect Type	MC 1			MC 2		
					Device	Parameter	Enable*	Device	Parameter	Enable*
GM(047)	St	Harp	off	3 Band EQ	ModWheel	off	---	ModWheel	off	---
GM(048)	St	Timpani	off	3 Band EQ	ModWheel	off	---	ModWheel	off	---
GM(049)	St	Strings1	off	3 Band EQ	ModWheel	off	---	ModWheel	off	---
GM(050)	St	Strings2	off	3 Band EQ	ModWheel	off	---	ModWheel	off	---
GM(051)	St	Syn.Str1	off	3 Band EQ	ModWheel	off	---	ModWheel	off	---
GM(052)	St	Syn.Str2	off	3 Band EQ	ModWheel	off	--	ModWheel	off	--
GM(053)	En	ChoirAah	off	3 Band EQ	ModWheel	off	---	ModWheel	off	---
GM(054)	En	VoiceOoh	off	3 Band EQ	ModWheel	off	---	ModWheel	off	---
GM(055)	En	SynVoice	off	3 Band EQ	ModWheel	off	---	ModWheel	off	---
GM(056)	En	Orch.Hit	off	3 Band EQ	ModWheel	off	---	ModWheel	off	---
GM(057)	Br	Trumpet	off	3 Band EQ	ModWheel	off	---	ModWheel	off	---
GM(058)	Br	Trombone	off	3 Band EQ	ModWheel	off	---	ModWheel	off	---
GM(059)	Br	Tuba	off	3 Band EQ	ModWheel	off	---	ModWheel	off	---
GM(060)	Br	Mute.Trp	off	3 Band EQ	ModWheel	off	---	ModWheel	off	---
GM(061)	Br	Fr.Horn	off	3 Band EQ	ModWheel	off	--	ModWheel	off	--
GM(062)	Br	BrasSect	off	3 Band EQ	ModWheel	off	---	ModWheel	off	---
GM(063)	Br	SynBras1	off	3 Band EQ	ModWheel	off	--	ModWheel	off	--
GM(064)	Br	SynBras2	off	3 Band EQ	ModWheel	off	--	ModWheel	off	--
GM(065)	Rd	SprnoSax	off	3 Band EQ	ModWheel	off	---	ModWheel	off	---
GM(066)	Rd	Alto Sax	off	3 Band EQ	ModWheel	off	---	ModWheel	off	---
GM(067)	Rd	TenorSax	off	3 Band EQ	ModWheel	off	---	ModWheel	off	---
GM(068)	Rd	Bari.Sax	off	3 Band EQ	ModWheel	off	---	ModWheel	off	---
GM(069)	Rd	Oboe	off	3 Band EQ	ModWheel	off	---	ModWheel	off	---
GM(070)	Rd	Eng.Horn	off	3 Band EQ	ModWheel	off	---	ModWheel	off	---
GM(071)	Rd	Bassoon	off	3 Band EQ	ModWheel	off	---	ModWheel	off	---
GM(072)	Rd	Clarinet	off	3 Band EQ	ModWheel	off	---	ModWheel	off	---
GM(073)	Pi	Piccolo	off	3 Band EQ	ModWheel	off	---	ModWheel	off	---
GM(074)	Pi	Flute	off	3 Band EQ	ModWheel	off	---	ModWheel	off	---
GM(075)	Pi	Recorder	off	3 Band EQ	ModWheel	off	---	ModWheel	off	---
GM(076)	Pi	PanFlute	off	3 Band EQ	ModWheel	off	---	ModWheel	off	---
GM(077)	Pi	Bottle	off	3 Band EQ	ModWheel	off	--	ModWheel	off	--
GM(078)	Pi	Shakhchi	off	3 Band EQ	ModWheel	off	--	ModWheel	off	--
GM(079)	Pi	Whistle	off	3 Band EQ	ModWheel	off	---	ModWheel	off	---
GM(080)	Pi	Ocarina	off	3 Band EQ	ModWheel	off	---	ModWheel	off	---
GM(081)	Ld	SquareLd	off	3 Band EQ	ModWheel	off	--	ModWheel	off	--
GM(082)	Ld	Saw.Lead	off	3 Band EQ	ModWheel	off	--	ModWheel	off	--
GM(083)	Ld	CalioPLd	off	3 Band EQ	ModWheel	off	--	ModWheel	off	--
GM(084)	Ld	Chiff Ld	off	3 Band EQ	ModWheel	off	--	ModWheel	off	--
GM(085)	Ld	CharanLd	off	3 Band EQ	ModWheel	off	--	ModWheel	off	--
GM(086)	Ld	Voice Ld	off	3 Band EQ	ModWheel	off	--	ModWheel	off	--
GM(087)	Ld	Fifth Ld	off	3 Band EQ	ModWheel	off	--	ModWheel	off	--
GM(088)	Ld	Bass &Ld	off	3 Band EQ	ModWheel	off	--	ModWheel	off	--
GM(089)	Pd	NewAgePd	off	3 Band EQ	ModWheel	off	--	ModWheel	off	--
GM(090)	Pd	Warm Pad	off	3 Band EQ	ModWheel	off	---	ModWheel	off	---
GM(091)	Pd	PolySyPd	off	3 Band EQ	ModWheel	off	--	ModWheel	off	--
GM(092)	Pd	ChoirPad	off	3 Band EQ	ModWheel	off	--	ModWheel	off	--
GM(093)	Pd	BowedPad	off	3 Band EQ	ModWheel	off	--	ModWheel	off	--
GM(094)	Pd	MetalPad	off	3 Band EQ	ModWheel	off	--	ModWheel	off	--
GM(095)	Pd	Halo Pad	off	3 Band EQ	ModWheel	off	--	ModWheel	off	--
GM(096)	Pd	SweepPad	off	3 Band EQ	ModWheel	off	---	ModWheel	off	---

ELEMENT															
Element 1				Element 2				Element 3				Element 4			
Element Bank	Element Number	Element Category	Element Name	Element Bank	Element Number	Element Category	Element Name	Element Bank	Element Number	Element Category	Element Name	Element Bank	Element Number	Element Category	Element Name
P1	190	St	Harp	off	--	--		off	--	--		off	--	--	
P1	192	St	Timpani	off	--	--		off	--	--		off	--	--	
P1	169	St	String1	off	--	--		off	--	--		off	--	--	
P1	173	St	String5	off	--	--		off	--	--		off	--	--	
P1	182	St	SynSt4	off	--	--		off	--	--		off	--	--	
P1	181	St	SynSt3	P1	181	St	SynSt3	off	--	--		off	--	--	
P1	199	En	Choir2	off	--	--		off	--	--		off	--	--	
P1	207	En	Choir10	off	--	--		off	--	--		off	--	--	
P1	209	En	Choir12	off	--	--		off	--	--		off	--	--	
P1	218	En	OrchHit	off	--	--		off	--	--		off	--	--	
P1	219	Br	Trumpet	off	--	--		off	--	--		off	--	--	
P1	223	Br	TrmBone	off	--	--		off	--	--		off	--	--	
P1	227	Br	Tuba	off	--	--		off	--	--		off	--	--	
P1	222	Br	MuteTp	off	--	--		off	--	--		off	--	--	
P1	225	Br	Horn	P1	223	Br	TrmBone	off	--	--		off	--	--	
P1	228	Br	BrsSec	off	--	--		off	--	--		off	--	--	
P1	239	Br	SynBrs11	P1	229	Br	SynBrs1	off	--	--		off	--	--	
P1	231	Br	SynBrs3	P1	231	Br	SynBrs3	off	--	--		off	--	--	
P1	241	Rd	SprnoSx	off	--	--		off	--	--		off	--	--	
P1	242	Rd	AltoSx	off	--	--		off	--	--		off	--	--	
P1	245	Rd	TenorSx2	off	--	--		off	--	--		off	--	--	
P1	246	Rd	BariSx	off	--	--		off	--	--		off	--	--	
P1	253	Rd	Oboe	off	--	--		off	--	--		off	--	--	
P1	250	Rd	EngHrn	off	--	--		off	--	--		off	--	--	
P1	248	Rd	Basson2	off	--	--		off	--	--		off	--	--	
P1	251	Rd	Clari1	off	--	--		off	--	--		off	--	--	
P2	3	Pi	Piccolo	off	--	--		off	--	--		off	--	--	
P2	1	Pi	Flute1	off	--	--		off	--	--		off	--	--	
P2	4	Pi	Recrder	off	--	--		off	--	--		off	--	--	
P2	6	Pi	PanFlt2	off	--	--		off	--	--		off	--	--	
P2	6	Pi	PanFlt2	P2	9	Pi	Bottle	off	--	--		off	--	--	
P1	254	Pi	Shaku8	P2	10	Pi	Noise	off	--	--		off	--	--	
P1	256	Pi	Whisle	off	--	--		off	--	--		off	--	--	
P1	255	Pi	Ocarina	off	--	--		off	--	--		off	--	--	
P2	17	Ld	Squ	P2	19	Ld	SquSaw	off	--	--		off	--	--	
P2	14	Ld	Saw4	P2	16	Ld	Saw6	off	--	--		off	--	--	
P2	5	Pi	PanFlt1	P2	2	Pi	Flute2	off	--	--		off	--	--	
P2	30	Ld	BrsLd1	P2	9	Pi	Bottle	off	--	--		off	--	--	
P2	34	Ld	GtrLd	P2	23	Ld	Digi3	off	--	--		off	--	--	
P2	29	Ld	PanLd2	P2	32	Ld	VoxLd	off	--	--		off	--	--	
P2	20	Ld	Sweep	P2	31	Ld	BrsLd2	off	--	--		off	--	--	
P2	11	Ld	Saw1	P2	26	Ld	Digi6	off	--	--		off	--	--	
P1	54	Cp	Clste4	P2	45	Pd	Pad11	off	--	--		off	--	--	
P2	49	Pd	Pad15	off	--	--		off	--	--		off	--	--	
P2	43	Pd	Pad9	P2	52	Pd	Pad18	off	--	--		off	--	--	
P2	54	Pd	Pad20	P2	56	Pd	Pad22	off	--	--		off	--	--	
P2	71	Pd	Pad37	P2	71	Pd	Pad37	off	--	--		off	--	--	
P2	68	Pd	Pad34	P2	41	Pd	Pad7	off	--	--		off	--	--	
P2	57	Pd	Pad23	P2	55	Pd	Pad21	off	--	--		off	--	--	
P2	46	Pd	Pad12	off	--	--		off	--	--		off	--	--	

VOICE			INSERTION EFFECT		MIDI CONTROL					
Voice Number	Voice Category	Voice Name	Effect Mode	Effect Type	MC 1			MC 2		
					Device	Parameter	Enable*	Device	Parameter	Enable*
GM(097)	Fx	Rain	off	3 Band EQ	ModWheel	off	__--	ModWheel	off	__--
GM(098)	Fx	SoundTrk	off	3 Band EQ	ModWheel	off	__--	ModWheel	off	__--
GM(099)	Fx	Crystal	off	3 Band EQ	ModWheel	off	__--	ModWheel	off	__--
GM(100)	Fx	Atmosphr	off	3 Band EQ	ModWheel	off	__--	ModWheel	off	__--
GM(101)	Fx	Bright	off	3 Band EQ	ModWheel	off	__--	ModWheel	off	__--
GM(102)	Fx	Goblins	off	3 Band EQ	ModWheel	off	__--	ModWheel	off	__--
GM(103)	Fx	Echoes	off	3 Band EQ	ModWheel	off	__--	ModWheel	off	__--
GM(104)	Fx	Sci-Fi	off	3 Band EQ	ModWheel	off	__--	ModWheel	off	__--
GM(105)	Et	Sitar	off	3 Band EQ	ModWheel	off	__--	ModWheel	off	__--
GM(106)	Et	Banjo	off	3 Band EQ	ModWheel	off	__--	ModWheel	off	__--
GM(107)	Et	Shamisen	off	3 Band EQ	ModWheel	off	__--	ModWheel	off	__--
GM(108)	Et	Koto	off	3 Band EQ	ModWheel	off	__--	ModWheel	off	__--
GM(109)	Et	Kalimba	off	3 Band EQ	ModWheel	off	__--	ModWheel	off	__--
GM(110)	Et	BagPipe	off	3 Band EQ	ModWheel	off	__--	ModWheel	off	__--
GM(111)	Et	Fiddle	off	3 Band EQ	ModWheel	off	__--	ModWheel	off	__--
GM(112)	Et	Shanai	off	3 Band EQ	ModWheel	off	__--	ModWheel	off	__--
GM(113)	Pc	TnklBell	off	3 Band EQ	ModWheel	off	__--	ModWheel	off	__--
GM(114)	Pc	Agogo	off	3 Band EQ	ModWheel	off	__--	ModWheel	off	__--
GM(115)	Pc	SteelDrm	off	3 Band EQ	ModWheel	off	__--	ModWheel	off	__--
GM(116)	Pc	WoodBlok	off	3 Band EQ	ModWheel	off	__--	ModWheel	off	__--
GM(117)	Pc	TaikoDrm	off	3 Band EQ	ModWheel	off	__--	ModWheel	off	__--
GM(118)	Pc	MelodTom	off	3 Band EQ	ModWheel	off	__--	ModWheel	off	__--
GM(119)	Pc	Syn.Drum	off	3 Band EQ	ModWheel	off	__--	ModWheel	off	__--
GM(120)	Pc	RevCymb1	off	3 Band EQ	ModWheel	off	__--	ModWheel	off	__--
GM(121)	Se	FretNoiz	off	3 Band EQ	ModWheel	off	__--	ModWheel	off	__--
GM(122)	Se	BrthNoiz	off	3 Band EQ	ModWheel	off	__--	ModWheel	off	__--
GM(123)	Se	Seashore	off	3 Band EQ	ModWheel	off	__--	ModWheel	off	__--
GM(124)	Se	Tweet	off	3 Band EQ	ModWheel	off	__--	ModWheel	off	__--
GM(125)	Se	Telephone	off	3 Band EQ	ModWheel	off	__--	ModWheel	off	__--
GM(126)	Se	Helicptr	off	3 Band EQ	ModWheel	off	__--	ModWheel	off	__--
GM(127)	Se	Applause	off	3 Band EQ	ModWheel	off	__--	ModWheel	off	__--
GM(128)	Se	Gunshot	off	3 Band EQ	ModWheel	off	__--	ModWheel	off	__--

ELEMENT															
Element 1				Element 2				Element 3				Element 4			
Element Bank	Element Number	Element Category	Element Name	Element Bank	Element Number	Element Category	Element Name	Element Bank	Element Number	Element Category	Element Name	Element Bank	Element Number	Element Category	Element Name
P2	81	Fx	LoopXylo	P2	38	Pd	Pad4	off	--	--		off	--	--	
P2	44	Pd	Pad10	P2	51	Pd	Pad17	off	--	--		off	--	--	
P1	61	Cp	Hndbel1	P1	61	Cp	Hndbel1	off	--	--		off	--	--	
P2	95	Fx	AtmsGtr	P2	42	Pd	Pad8	off	--	--		off	--	--	
P2	85	Fx	AtkChr1	P2	86	Fx	AtkChr2	off	--	--		off	--	--	
P2	76	Fx	SlwSweep	P2	84	Fx	Water	off	--	--		off	--	--	
P2	50	Pd	Pad16	off	--	--		off	--	--		off	--	--	
P2	79	Fx	SlowGtr	P2	40	Pd	Pad6	off	--	--		off	--	--	
P2	100	Et	Sitar	off	--	--		off	--	--		off	--	--	
P2	101	Et	Banjo	off	--	--		off	--	--		off	--	--	
P2	102	Et	Shamisen	off	--	--		off	--	--		off	--	--	
P2	103	Et	Koto	off	--	--		off	--	--		off	--	--	
P2	96	Et	Kalimba	off	--	--		off	--	--		off	--	--	
P2	97	Et	BagPipe	off	--	--		off	--	--		off	--	--	
P2	98	Et	Fiddle	off	--	--		off	--	--		off	--	--	
P2	99	Et	Shanai	off	--	--		off	--	--		off	--	--	
P2	115	Pc	TnkBell	off	--	--		off	--	--		off	--	--	
P2	118	Pc	Agogo	off	--	--		off	--	--		off	--	--	
P2	104	Pc	SteelDrm	off	--	--		off	--	--		off	--	--	
P2	106	Pc	WdBlock	off	--	--		off	--	--		off	--	--	
P2	107	Pc	TaikoDrm	off	--	--		off	--	--		off	--	--	
P2	108	Pc	MelodTom	off	--	--		off	--	--		off	--	--	
P2	109	Pc	SynDrm	off	--	--		off	--	--		off	--	--	
P2	110	Pc	RevCymb1	off	--	--		off	--	--		off	--	--	
P2	134	Se	FretNoiz	off	--	--		off	--	--		off	--	--	
P2	9	Pi	Bottle	off	--	--		off	--	--		off	--	--	
P2	157	Se	Seashore	off	--	--		off	--	--		off	--	--	
P2	165	Se	Tweet 1	P2	166	Se	Tweet 2	off	--	--		off	--	--	
P2	162	Se	Telephone	off	--	--		off	--	--		off	--	--	
P2	137	Se	Helicptr	off	--	--		off	--	--		off	--	--	
P2	120	Se	Applaus1	P2	121	Se	Applaus2	off	--	--		off	--	--	
P2	136	Se	GunShot	off	--	--		off	--	--		off	--	--	

Preset Voice List

VOICE			INSERTION EFFECT		MIDI CONTROL					
Voice Number	Voice Category	Voice Name	Effect Mode	Effect Type	MC 1			MC 2		
					Device	Parameter	Enable*	Device	Parameter	Enable*
Preset (001)	Pf	Dream	on	Reverb Hall	ModWheel	off	___-	ModWheel	off	___-
Preset (002)	Pf	PnoStrings	off	3 Band EQ	ModWheel	off	___	ModWheel	off	___
Preset (003)	Pf	ClassicPno	on	3 Band EQ	ModWheel	off	___	ModWheel	off	___
Preset (004)	Pf	StereoPno	off	3 Band EQ	ModWheel	off	___	ModWheel	off	___
Preset (005)	Pf	Chorus Pno	on	Chorus A	ModWheel	ins.ef	__--	ModWheel	off	__--
Preset (006)	Pf	Dance Pno1	on	3 Band EQ	ModWheel	lfo speed	1---	ModWheel	off	__--
Preset (007)	Pf	Dance Pno2	on	3 Band EQ	ModWheel	off	__--	ModWheel	off	__--
Preset (008)	Pf	CP80 16'	on	3 Band EQ	ModWheel	off	__--	ModWheel	off	__--
Preset (009)	Pf	CP80 8'	on	3 Band EQ	ModWheel	off	__--	ModWheel	off	__--
Preset (010)	Pf	FullRoads	off	3 Band EQ	ModWheel	off	off	ModWheel	off	__--
Preset (011)	Pf	HardRoads	off	3 Band EQ	ModWheel	off	__--	ModWheel	off	__--
Preset (012)	Pf	ThinRoads	off	3 Band EQ	ModWheel	off	___	ModWheel	off	___
Preset (013)	Pf	DX Dark	on	Chorus B	ModWheel	off	__--	ModWheel	off	__--
Preset (014)	Pf	Tine Pad	off	3 Band EQ	ModWheel	off	__--	ModWheel	off	__--
Preset (015)	Pf	Glass EP	on	3 Band EQ	ModWheel	off	__--	ModWheel	off	__--
Preset (016)	Pf	WurliTyne	off	3 Band EQ	ModWheel	off	__--	ModWheel	off	__--
Preset (017)	Pf	EP 60's	on	3 Band EQ	ModWheel	off	__--	ModWheel	off	__--
Preset (018)	Pf	WurlI Dist	on	Distortion	General1(CS)	ins.ef	12--	ModWheel	off	__--
Preset (019)	Pf	Klavinet	on	3 Band EQ	ModWheel	off	__--	ModWheel	off	__--
Preset (020)	Pf	Thin Clavi	on	3 Band EQ	ModWheel	off	__--	ModWheel	off	__--
Preset (021)	Pf	Harpsichrd	on	3 Band EQ	ModWheel	off	__--	ModWheel	off	__--
Preset (022)	Cp	Handbell	on	Pitch Chng 2	General1(CS)	sys.ef 3	12--	ModWheel	off	__--
Preset (023)	Cp	Roto Vibe	on	Rotary Sp.	General1(CS)	ins.ef	12--	ModWheel	off	__--
Preset (024)	Cp	Glass Harp	on	Chorus B	ModWheel	off	__--	ModWheel	off	__--
Preset (025)	Or	Pipe Organ	on	3 Band EQ	General1(CS)	flt cutof	12--	ModWheel	off	__--
Preset (026)	Or	Rotary	on	Rotary Sp.	ModWheel	ins.ef	123-	General1(CS)	amp level	1__-
Preset (027)	Or	Sine Organ	off	3 Band EQ	ModWheel	off	___	ModWheel	off	___
Preset (028)	Or	Puff Organ	off	3 Band EQ	ModWheel	sys.ef 2	12--	ModWheel	sys.ef 1	12--
Preset (029)	Or	Gospel	on	Rotary Sp.	General1(CS)	amp level	1__-	ModWheel	ins.ef	12--
Preset (030)	Or	Grit Organ	on	Dist+RotaSp	ModWheel	ins.ef	12--	General1(CS)	lfo speed	12--
Preset (031)	Or	Hot Hammy	on	Rotary Sp.	ModWheel	ins.ef	12--	ModWheel	off	__--
Preset (032)	Or	Rez Drawer	on	Rotary Sp.	ModWheel	ins.ef	12--	ModWheel	off	__--
Preset (033)	Or	Blue Yuya	on	Distortion	ModWheel	flt reso	12--	ModWheel	off	__--
Preset (034)	Gt	6 String	on	3 Band EQ	General1(CS)	sys.ef 2	12--	ModWheel	off	__--
Preset (035)	Gt	Drk Nylon	on	3 Band EQ	General1(CS)	flt reso	1__-	ModWheel	off	__--
Preset (036)	Gt	Dozens	off	3 Band EQ	ModWheel	off	__--	ModWheel	off	__--
Preset (037)	Gt	CleanStrat	on	3 Band EQ	General1(CS)	sys.ef 2	12--	General1(CS)	sys.ef 3	12--
Preset (038)	Gt	Rhthm Twin	on	Phaser	General1(CS)	sys.ef 2	123-	General1(CS)	sys.ef 3	123-
Preset (039)	Gt	Dirty Twin	on	Distortion	General1(CS)	sys.ef 3	12--	ModWheel	off	__--
Preset (040)	Gt	Switch Gtr	on	Dist+Comp	ModWheel	off	__--	ModWheel	off	__--
Preset (041)	Gt	Mute Drive	on	Distortion	General1(CS)	sys.ef 3	12--	ModWheel	off	__--
Preset (042)	Gt	Stack	on	Distortion	General1(CS)	sys.ef 3	12--	General1(CS)	sys.ef 1	12--
Preset (043)	Gt	Grunge	on	Distortion	General1(CS)	sys.ef 3	123-	ModWheel	off	___-
Preset (044)	Gt	Pinch	on	Dist+Comp	ModWheel	off	___	ModWheel	off	___
Preset (045)	Gt	Feedback	on	Distortion	ModWheel	off	__--	ModWheel	off	__--
Preset (046)	Ba	Fingered	on	3 Band EQ	ModWheel	off	__--	ModWheel	off	__--
Preset (047)	Ba	Miller	off	3 Band EQ	ModWheel	feg decay	1---	ModWheel	off	__--
Preset (048)	Ba	Fretless	on	Dist+Comp	ModWheel	off	__--	ModWheel	off	__--
Preset (049)	Ba	Beetle	on	Distortion	ModWheel	off	___	ModWheel	off	___
Preset (050)	Ba	D'Amped	on	Distortion	General1(CS)	sys.ef 3	12--	ModWheel	off	__--

ELEMENT															
Element 1				Element 2				Element 3				Element 4			
Element Bank	Element Number	Element Category	Element Name	Element Bank	Element Number	Element Category	Element Name	Element Bank	Element Number	Element Category	Element Name	Element Bank	Element Number	Element Category	Element Name
P1	1	Pf	A.Piano1	P1	212	En	Vox3	P1	212	En	Vox3	off	--	--	
P1	3	Pf	A.Piano3	P1	3	Pf	A.Piano3	P1	172	St	String4	off	--	--	
P1	3	Pf	A.Piano3	P1	3	Pf	A.Piano3	P1	3	Pf	A.Piano3	P1	72	Cp	Stuff1
P1	2	Pf	A.Piano2	P1	2	Pf	A.Piano2	P1	2	Pf	A.Piano2	P1	2	Pf	A.Piano2
P1	1	Pf	A.Piano1	P1	1	Pf	A.Piano1	off	--	--		off	--	--	
P1	2	Pf	A.Piano2	off	--	--		off	--	--		off	--	--	
P1	1	Pf	A.Piano1	P1	42	Pf	Stuff4	off	--	--		off	--	--	
P1	10	Pf	E.Grand2	P1	10	Pf	E.Grand2	off	--	--		off	--	--	
P1	11	Pf	E.Grand3	off	--	--		off	--	--		off	--	--	
P1	12	Pf	EP1	P2	73	Pd	Pad39	off	--	--		off	--	--	
P1	12	Pf	EP1	P1	22	Pf	EP11	off	--	--		off	--	--	
P1	15	Pf	EP4	P1	15	Pf	EP4	P1	15	Pf	EP4	P1	15	Pf	EP4
P1	19	Pf	EP8	P2	12	Ld	Saw2	off	--	--		off	--	--	
P1	180	St	SynSt2	P1	24	Pf	EP13	off	--	--		off	--	--	
P1	22	Pf	EP11	P1	22	Pf	EP11	off	--	--		off	--	--	
P1	29	Pf	EP18	P1	20	Pf	EP9	off	--	--		off	--	--	
P1	28	Pf	EP17	P1	27	Pf	EP16	off	--	--		off	--	--	
P1	94	Or	Stuff2	P2	124	Se	RcdClick	off	--	--		off	--	--	
P1	30	Pf	Clav1	P1	49	Pf	Stuff11	off	--	--		off	--	--	
P1	31	Pf	Clav2	off	--	--		off	--	--		off	--	--	
P1	36	Pf	Harpsi1	P1	36	Pf	Harpsi1	off	--	--		off	--	--	
P1	62	Cp	Hndbel2	P1	62	Cp	Hndbel2	off	--	--		off	--	--	
P1	74	Cp	Stuff3	P1	57	Cp	Vibe2	off	--	--		off	--	--	
P2	71	Pd	Pad37	P1	52	Cp	Clste2	off	--	--		off	--	--	
P1	90	Or	Reed1	P1	90	Or	Reed1	off	--	--		off	--	--	
P1	75	Or	Organ1	P1	96	Or	Stuff4	P1	96	Or	Stuff4	off	--	--	
P1	96	Or	Stuff4	P1	96	Or	Stuff4	P1	96	Or	Stuff4	P1	96	Or	Stuff4
P2	6	Pi	PanFlt2	P1	92	Or	Reed3	off	--	--		off	--	--	
P1	95	Or	Stuff3	P1	76	Or	Organ2	off	--	--		off	--	--	
P1	75	Or	Organ1	P2	160	Se	Simpl'n'	off	--	--		off	--	--	
P1	75	Or	Organ1	P1	85	Or	Organ11	off	--	--		off	--	--	
P1	20	Pf	EP9	P1	84	Or	Organ10	off	--	--		off	--	--	
P1	87	Or	Harmoni1	P1	87	Or	Harmoni1	off	--	--		off	--	--	
P1	102	Gt	Steel3	P1	126	Gt	Stuff2	off	--	--		off	--	--	
P1	99	Gt	Nylon3	P1	126	Gt	Stuff2	off	--	--		off	--	--	
P1	114	Gt	12St-2	off	--	--		off	--	--		off	--	--	
P1	108	Gt	Clean6	P1	117	Gt	Mute2	off	--	--		off	--	--	
P1	117	Gt	Mute2	P1	107	Gt	Clean5	P1	126	Gt	Stuff2	off	--	--	
P1	108	Gt	Clean6	P1	105	Gt	Clean3	off	--	--		off	--	--	
P1	116	Gt	Mute1	P1	103	Gt	Clean1	off	--	--		off	--	--	
P1	117	Gt	Mute2	P1	105	Gt	Clean3	off	--	--		off	--	--	
P1	120	Gt	Dist2	P1	108	Gt	Clean6	off	--	--		off	--	--	
P1	102	Gt	Steel3	P1	126	Gt	Stuff2	P1	120	Gt	Dist2	off	--	--	
P1	121	Gt	OvDrv1	P1	214	En	Vox5	P1	124	Gt	Harm2	P1	130	Gt	Stuff6
P1	127	Gt	Stuff3	P1	119	Gt	Dist1	off	--	--		off	--	--	
P1	133	Ba	FingerBs	off	--	--		off	--	--		off	--	--	
P1	137	Ba	AlenBs2	off	--	--		off	--	--		off	--	--	
P1	141	Ba	Frets1	off	--	--		off	--	--		off	--	--	
P1	140	Ba	BeattleBs	P1	161	Ba	SynBs12	P1	161	Ba	SynBs12	P1	161	Ba	SynBs12
P1	167	Ba	Stuff1	P1	117	Gt	Mute2	off	--	--		off	--	--	

VOICE			INSERTION EFFECT		MIDI CONTROL					
Voice Number	Voice Category	Voice Name	Effect Mode	Effect Type	MC 1			MC 2		
					Device	Parameter	Enable*	Device	Parameter	Enable*
Preset (051)	Ba	Slap	on	3 Band EQ	ModWheel	off	___	ModWheel	off	___
Preset (052)	Ba	Thumper	off	3 Band EQ	ModWheel	off	__--	ModWheel	off	__--
Preset (053)	Ba	Flog	on	Chorus A	ModWheel	off	__--	ModWheel	off	__--
Preset (054)	Ba	Dank	on	Flanger B	ModWheel	off	___-	ModWheel	off	___-
Preset (055)	Ba	Orbit	on	Symphonic	ModWheel	off	__--	ModWheel	off	__--
Preset (056)	Ba	Owch	on	Flanger A	General1(CS)	amp level	_2--	ModWheel	off	__--
Preset (057)	Ba	Pulse Mann	off	3 Band EQ	ModWheel	off	__--	ModWheel	off	__--
Preset (058)	Ba	Reso Fat	on	3 Band EQ	ModWheel	off	___-	ModWheel	off	___-
Preset (059)	Ba	HardPhase	on	Phaser	ModWheel	off	__--	ModWheel	off	__--
Preset (060)	Ba	Hip	on	Flanger A	ModWheel	off	__--	ModWheel	off	__--
Preset (061)	Ba	Sinus	off	3 Band EQ	General1(CS)	flt cutof	12--	ModWheel	off	__--
Preset (062)	Ba	Fat Bass	off	3 Band EQ	ModWheel	off	__--	ModWheel	off	__--
Preset (063)	Ba	BoogieBass	on	3 Band EQ	ModWheel	off	__--	ModWheel	off	__--
Preset (064)	St	ArcoStr	off	3 Band EQ	ModWheel	off	___	ModWheel	off	___
Preset (065)	St	SloStrings	on	3 Band EQ	ModWheel	off	__--	ModWheel	off	__--
Preset (066)	St	Movie	on	Symphonic	ModWheel	ins.ef	12--	ModWheel	off	__--
Preset (067)	St	SoftSynth	on	Symphonic	ModWheel	ins.ef	12--	ModWheel	off	__--
Preset (068)	St	LightPad	off	3 Band EQ	ModWheel	off	___-	ModWheel	off	___-
Preset (069)	St	Dark Pad	on	Symphonic	General1(CS)	flt cutof	_2--	ModWheel	off	__--
Preset (070)	En	Itopia	on	Symphonic	ModWheel	ins.ef	12--	ModWheel	off	__--
Preset (071)	En	SpaceKoir	on	Symphonic	General1(CS)	flt cutof	12_	ModWheel	off	___-
Preset (072)	En	Quire	on	Chorus B	ModWheel	ins.ef	12--	ModWheel	off	__--
Preset (073)	En	Choir Pad	on	Symphonic	General1(CS)	aeg atack	12--	ModWheel	off	__--
Preset (074)	En	Ten CC	on	Chorus B	ModWheel	off	__--	ModWheel	off	__--
Preset (075)	Br	ClassicTpt	off	3 Band EQ	ModWheel	off	___	ModWheel	off	___
Preset (076)	Br	Miles 500	on	3 Band EQ	ModWheel	off	__--	ModWheel	off	__--
Preset (077)	Br	Dark Bone	off	3 Band EQ	ModWheel	off	___	ModWheel	off	___
Preset (078)	Br	Mellow Brs	off	3 Band EQ	ModWheel	off	__--	ModWheel	off	__--
Preset (079)	Br	MatriX 7	on	Chorus B	ModWheel	off	__--	ModWheel	off	__--
Preset (080)	Br	Brassic	on	3 Band EQ	ModWheel	off	__--	ModWheel	off	__--
Preset (081)	Br	Jump	on	Symphonic	ModWheel	off	__--	ModWheel	off	__--
Preset (082)	Rd	Soft Tenor	on	3 Band EQ	ModWheel	off	__--	ModWheel	off	__--
Preset (083)	Pi	Hey Jethro	on	Reverb Hall	ModWheel	ins.ef	12--	ModWheel	off	__--
Preset (084)	Pi	Windy	off	3 Band EQ	ModWheel	off	__--	ModWheel	off	__--
Preset (085)	Ld	Buzz Saw	on	Delay L,R	General1(CS)	flt cutof	1_--	ModWheel	off	__--
Preset (086)	Ld	Soft Saw	on	Delay L,R	ModWheel	off	___	ModWheel	off	___
Preset (087)	Ld	Maize	on	Symphonic	ModWheel	off	__--	ModWheel	off	__--
Preset (088)	Ld	Flat	on	3 Band EQ	ModWheel	off	__--	ModWheel	off	__--
Preset (089)	Ld	DigReed	on	Delay L,R	ModWheel	off	___-	ModWheel	off	___-
Preset (090)	Ld	Anawave	on	3 Band EQ	ModWheel	off	__--	ModWheel	off	__--
Preset (091)	Ld	Big Bob	on	Symphonic	ModWheel	off	__--	ModWheel	off	__--
Preset (092)	Pd	AirSynPad	on	Rotary Sp.	General1(CS)	flt cutof	_2--	ModWheel	off	__--
Preset (093)	Pd	Vangelism	on	Reverb Hall	ModWheel	off	__--	ModWheel	off	__--
Preset (094)	Pd	Phazzed	on	Reverb Hall	ModWheel	off	__--	ModWheel	off	__--
Preset (095)	Pd	Metal Wave	on	Pitch Chng 1	ModWheel	off	__--	ModWheel	off	__--
Preset (096)	Pd	StarPad	on	Symphonic	ModWheel	lfo pmd	_2--	ModWheel	off	__--
Preset (097)	Pd	Mini Pad	off	3 Band EQ	ModWheel	feg atack	12--	ModWheel	off	__--
Preset (098)	Pd	Paddy	off	3 Band EQ	ModWheel	aeg releas	12--	ModWheel	off	__--
Preset (099)	Pd	Jig Saw	off	3 Band EQ	ModWheel	off	__--	ModWheel	off	__--
Preset (100)	Pd	Open Saw	off	3 Band EQ	ModWheel	off	___	ModWheel	off	___

ELEMENT															
Element 1				Element 2				Element 3				Element 4			
Element Bank	Element Number	Element Category	Element Name	Element Bank	Element Number	Element Category	Element Name	Element Bank	Element Number	Element Category	Element Name	Element Bank	Element Number	Element Category	Element Name
P1	144	Ba	TumpBs2	P1	144	Ba	TumpBs2	P1	148	Ba	SlapBs1	P2	161	Se	SlapAtk
P1	163	Ba	SynBs14	P1	145	Ba	TumpBs3	off	--	--		off	--	--	
P1	162	Ba	SynBs13	P1	158	Ba	SynBs9	off	--	--		off	--	--	
P1	12	Pf	EP1	P1	158	Ba	SynBs9	P1	150	Ba	SynBs1	off	--	--	
P1	153	Ba	SynBs4	P1	153	Ba	SynBs4	off	--	--		off	--	--	
P1	157	Ba	SynBs8	P1	157	Ba	SynBs8	off	--	--		off	--	--	
P1	152	Ba	SynBs3	P1	152	Ba	SynBs3	off	--	--		off	--	--	
P1	156	Ba	SynBs7	P1	142	Ba	Fretls2	P1	139	Ba	AlenBs4	off	--	--	
P1	150	Ba	SynBs1	P1	138	Ba	AlenBs3	off	--	--		off	--	--	
P2	154	Se	Burst	P1	165	Ba	SynBs16	off	--	--		off	--	--	
P2	73	Pd	Pad39	P1	164	Ba	SynBs15	off	--	--		off	--	--	
P1	158	Ba	SynBs9	P2	20	Ld	Sweep	off	--	--		off	--	--	
P1	151	Ba	SynBs2	P1	151	Ba	SynBs2	off	--	--		off	--	--	
P1	169	St	String1	P1	186	St	Viola1	P1	188	St	Cello	P1	169	St	String1
P1	172	St	String4	P1	172	St	String4	off	--	--		off	--	--	
P1	173	St	String5	P1	181	St	SynSt3	off	--	--		off	--	--	
P2	45	Pd	Pad11	P1	171	St	String3	off	--	--		off	--	--	
P2	39	Pd	Pad5	P1	183	St	SynSt5	P2	39	Pd	Pad5	off	--	--	
P1	180	St	SynSt2	P1	173	St	String5	off	--	--		off	--	--	
P1	212	En	Vox3	P2	122	Se	TrkBrake	off	--	--		off	--	--	
P1	209	En	Choir12	P1	198	En	Choir1	P1	207	En	Choir10	off	--	--	
P1	216	En	Vox7	P1	216	En	Vox7	off	--	--		off	--	--	
P1	209	En	Choir12	P1	207	En	Choir10	off	--	--		off	--	--	
P1	202	En	Choir5	P1	212	En	Vox3	off	--	--		off	--	--	
P1	219	Br	Trumpet	off	--	--		off	--	--		off	--	--	
P1	222	Br	MuteTp	P1	219	Br	Trumpet	off	--	--		off	--	--	
P1	223	Br	TrmBone	off	--	--		off	--	--		off	--	--	
P2	47	Pd	Pad13	P1	228	Br	BrsSec	off	--	--		off	--	--	
P1	232	Br	SynBrs4	P1	232	Br	SynBrs4	off	--	--		off	--	--	
P1	231	Br	SynBrs3	P1	231	Br	SynBrs3	off	--	--		off	--	--	
P1	234	Br	SynBrs6	P1	234	Br	SynBrs6	off	--	--		off	--	--	
P1	245	Rd	TenorSx2	P2	157	Se	Seashore	off	--	--		off	--	--	
P2	1	Pi	Flute1	P2	10	Pi	Noise	off	--	--		off	--	--	
P2	8	Pi	PanFlt4	P2	1	Pi	Flute1	off	--	--		off	--	--	
P2	65	Pd	Pad31	P1	230	Br	SynBrs2	off	--	--		off	--	--	
P2	13	Ld	Saw3	off	--	--		off	--	--		off	--	--	
P2	17	Ld	Squ	P2	100	Et	Sitar	off	--	--		off	--	--	
P1	165	Ba	SynBs16	P1	165	Ba	SynBs16	off	--	--		off	--	--	
P2	25	Ld	Digi5	P1	165	Ba	SynBs16	P2	122	Se	TrkBrake	off	--	--	
P2	17	Ld	Squ	P1	155	Ba	SynBs6	off	--	--		off	--	--	
P1	153	Ba	SynBs4	P1	180	St	SynSt2	off	--	--		off	--	--	
P1	172	St	String4	P1	199	En	Choir2	off	--	--		off	--	--	
P2	47	Pd	Pad13	P2	47	Pd	Pad13	off	--	--		off	--	--	
P2	53	Pd	Pad19	P2	53	Pd	Pad19	off	--	--		off	--	--	
P1	18	Pf	EP7	P1	18	Pf	EP7	off	--	--		off	--	--	
P2	49	Pd	Pad15	P1	60	Cp	Glock1	off	--	--		off	--	--	
P2	64	Pd	Pad30	P2	64	Pd	Pad30	off	--	--		off	--	--	
P2	160	Se	Simpl'n'	P2	49	Pd	Pad15	off	--	--		off	--	--	
P2	37	Pd	Pad3	P2	37	Pd	Pad3	off	--	--		off	--	--	
P2	37	Pd	Pad3	off	--	--		off	--	--		off	--	--	

VOICE			INSERTION EFFECT		MIDI CONTROL					
Voice Number	Voice Category	Voice Name	Effect Mode	Effect Type	MC 1			MC 2		
					Device	Parameter	Enable*	Device	Parameter	Enable*
Preset (101)	Pd	Pad trick	off	3 Band EQ	ModWheel	off	__--	ModWheel	off	__--
Preset (102)	Pd	DreamRise	off	3 Band EQ	ModWheel	off	__--	ModWheel	off	__--
Preset (103)	Pd	Chicago	on	Chorus B	ModWheel	off	___-	ModWheel	off	___-
Preset (104)	Fx	Horizon	on	Cross Delay	ModWheel	flt cutof	__3-	ModWheel	flt cutof	_2_-
Preset (105)	Fx	Nu Arianne	on	Pitch Chng 1	ModWheel	off	___-	ModWheel	off	___-
Preset (106)	Fx	Mariana	on	Symphonic	ModWheel	amp level	__3-	ModWheel	off	___-
Preset (107)	Fx	Wobbly	on	Phaser	ModWheel	aeg reles	12--	General1(CS)	ins.ef	12--
Preset (108)	Et	Sunrise	on	Reverb Hall	ModWheel	off	___-	ModWheel	off	___-
Preset (109)	Pc	SilverLine	off	3 Band EQ	ModWheel	aeg atack	12--	ModWheel	off	__--
Preset (110)	Pc	Percussive	on	3 Band EQ	ModWheel	off	___	ModWheel	off	___
Preset (111)	Sc	Cymbalon	on	Early Ref.1	ModWheel	off	__--	ModWheel	off	__--
Preset (112)	Sc	Stuffoni	on	Rotary Sp.	ModWheel	off	___-	ModWheel	off	___-
Preset (113)	Sc	Wyre Piano	on	3 Band EQ	ModWheel	off	___-	ModWheel	off	___-
Preset (114)	Sc	Iced Man	on	3 Band EQ	ModWheel	off	__--	ModWheel	off	__--
Preset (115)	Sc	GS1 Vibe	on	Symphonic	ModWheel	ins.ef	123-	ModWheel	off	___-
Preset (116)	Sc	Merapi	on	Symphonic	ModWheel	ins.ef	12--	ModWheel	off	__--
Preset (117)	Sc	Crisp	on	Symphonic	ModWheel	off	___-	ModWheel	off	___-
Preset (118)	Sc	Needle	on	Phaser	ModWheel	off	_---	ModWheel	off	_---
Preset (119)	Sc	Foxy Clav	on	Flanger A	ModWheel	ins.ef	12--	ModWheel	off	__--
Preset (120)	Sc	Air Glass	on	Symphonic	ModWheel	elm pan	1__-	ModWheel	aeg reles	_2_-
Preset (121)	Sc	Chimera	on	Symphonic	ModWheel	off	___-	ModWheel	off	___-
Preset (122)	Sc	Miraj 5th	on	Chorus B	ModWheel	off	__--	ModWheel	off	__--
Preset (123)	Sc	Chuff Gtr	off	3 Band EQ	ModWheel	off	___	ModWheel	off	___
Preset (124)	Sc	SquareComp	on	Symphonic	ModWheel	ins.ef	123-	ModWheel	off	___-
Preset (125)	Sc	Digi Harp	off	3 Band EQ	General1(CS)	feg decay	_2--	ModWheel	off	__--
Preset (126)	Sc	StickKeys	off	3 Band EQ	ModWheel	off	__--	ModWheel	off	__--
Preset (127)	Vo	Nu Choire	on	3 Band EQ	ModWheel	off	__--	ModWheel	off	__--
Preset (128)	Co	MacKinley	on	Flanger B	ModWheel	ins.ef	1234	ModWheel	off	___

ELEMENT															
Element 1				Element 2				Element 3				Element 4			
Element Bank	Element Number	Element Category	Element Name	Element Bank	Element Number	Element Category	Element Name	Element Bank	Element Number	Element Category	Element Name	Element Bank	Element Number	Element Category	Element Name
P1	199	En	Choir2	P2	48	Pd	Pad14	off	--	--		off	--	--	
P1	170	St	String2	P2	73	Pd	Pad39	off	--	--		off	--	--	
P2	43	Pd	Pad9	P1	239	Br	SynBrs11	P1	239	Br	SynBrs11	off	--	--	
P2	61	Pd	Pad27	P2	61	Pd	Pad27	P2	49	Pd	Pad15	off	--	--	
P2	87	Fx	TimpMute	P2	43	Pd	Pad9	P2	146	Se	CymSir	off	--	--	
P2	49	Pd	Pad15	P2	83	Fx	DigiEcho	P2	81	Fx	LoopXylo	off	--	--	
P2	89	Fx	DigiFly	P2	89	Fx	DigiFly	off	--	--		off	--	--	
P1	97	Gt	Nylon1	P2	100	Et	Sitar	P2	68	Pd	Pad34	off	--	--	
P2	90	Fx	BellStuf	P1	54	Cp	Clste4	off	--	--		off	--	--	
P2	238	Dr	Tumbrn	P1	60	Cp	Glock1	P1	56	Cp	Vibe1	P1	192	St	Timpani
P1	152	Ba	SynBs3	P2	206	Dr	CyBell	off	--	--		off	--	--	
P2	33	Ld	RezLd	P1	71	Cp	Digi5	P1	79	Or	Organ5	off	--	--	
P1	42	Pf	Stuff4	P1	3	Pf	A.Piano3	P1	42	Pf	Stuff4	off	--	--	
P1	18	Pf	EP7	P2	147	Se	Games	off	--	--		off	--	--	
P1	68	Cp	Digi2	P1	68	Cp	Digi2	P1	60	Cp	Glock1	off	--	--	
P2	82	Fx	DlyChoir	P1	190	St	Harp	off	--	--		off	--	--	
P1	158	Ba	SynBs9	P1	158	Ba	SynBs9	P2	72	Pd	Pad38	off	--	--	
P1	158	Ba	SynBs9	off	--	--		off	--	--		off	--	--	
P2	170	Sc	AtkComp	P2	170	Sc	AtkComp	off	--	--		off	--	--	
P1	52	Cp	Clste2	P2	169	Sc	EpComp	P1	209	En	Choir12	off	--	--	
P2	49	Pd	Pad15	P2	41	Pd	Pad7	P1	52	Cp	Clste2	off	--	--	
P1	213	En	Vox4	P2	30	Ld	BrsLd1	off	--	--		off	--	--	
P1	97	Gt	Nylon1	P1	125	Gt	Stuff1	P1	100	Gt	Steel1	P2	28	Ld	PanLd1
P2	17	Ld	Squ	P2	17	Ld	Squ	P1	52	Cp	Clste2	off	--	--	
P1	190	St	Harp	P2	116	Pc	DigiWobb	off	--	--		off	--	--	
P1	25	Pf	EP14	P1	125	Gt	Stuff1	off	--	--		off	--	--	
P1	211	En	Vox2	P1	205	En	Choir8	off	--	--		off	--	--	
P2	35	Pd	Pad1	P2	107	Pc	TaikoDrm	P2	8	Pi	PanFlt4	P2	20	Ld	Sweep

Internal Voice List

VOICE			INSERTION EFFECT		MIDI CONTROL					
Voice Number	Voice Category	Voice Name	Effect Mode	Effect Type	MC 1			MC 2		
					Device	Parameter	Enable*	Device	Parameter	Enable*
Internal (001)	Fx	HAL2000	on	Symphonic	ModWheel	ins.ef	123-	ModWheel	off	___
Internal (002)	Pf	DynoMighty	on	Chorus B	ModWheel	off	___	ModWheel	off	___
Internal (003)	Cp	Kyoto Bell	on	Pitch Chng 1	General1(CS)	flt reso	__3-	ModWheel	off	___
Internal (004)	Gt	Steve	on	Dist Delay	ModWheel	off	___	ModWheel	off	___
Internal (005)	Ba	SweetBasil	on	3 Band EQ	ModWheel	off	___	ModWheel	off	___
Internal (006)	St	AirClassic	off	3 Band EQ	ModWheel	off	___	ModWheel	off	___
Internal (007)	En	Holy	on	3 Band EQ	ModWheel	off	___	ModWheel	off	___
Internal (008)	Br	PunchBrass	on	3 Band EQ	ModWheel	off	___	ModWheel	off	___
Internal (009)	Rd	Clarinet	on	Delay L,R	ModWheel	off	_---	ModWheel	off	_---
Internal (010)	Ld	Annarez	on	Delay L,C,R	General1(CS)	flt cutof	12--	ModWheel	off	__--
Internal (011)	Fx	MetalBreth	on	Pitch Chng 2	General1(CS)	flt reso	_2--	ModWheel	off	__--
Internal (012)	Et	Elec Sitar	on	Symphonic	ModWheel	off	___	ModWheel	off	___
Internal (013)	Se	Whalesong	on	Pitch Chng 1	General1(CS)	flt reso	_2--	ModWheel	off	__--
Internal (014)	Pd	Alaska	on	Chorus B	General1(CS)	flt cutof	12--	ModWheel	off	__--
Internal (015)	Sc	Arpeggiator	on	Phaser	General1(CS)	flt cutof	1_--	ModWheel	off	__--
Internal (016)	Co	Extasee	on	Pitch Chng 2	ModWheel	off	___	ModWheel	off	___
Internal (017)	Pf	ReversePno	on	Early Ref.2	ModWheel	off	__--	ModWheel	off	__--
Internal (018)	Cp	Zingk	on	3 Band EQ	ModWheel	off	___	ModWheel	off	___
Internal (019)	Gt	Shadows	on	Stereo Echo	General1(CS)	ins.ef	12--	ModWheel	off	__--
Internal (020)	Ba	Drum Bass	off	3 Band EQ	ModWheel	off	__--	ModWheel	off	__--
Internal (021)	St	Crimson	on	Dist Delay	ModWheel	off	__--	ModWheel	off	__--
Internal (022)	En	PerkyChoir	on	Flanger B	ModWheel	off	_---	ModWheel	off	_---
Internal (023)	Br	Resonant	on	Symphonic	ModWheel	off	___	ModWheel	off	___
Internal (024)	Rd	Tenor Sax	on	Reverb Plate	ModWheel	off	__--	ModWheel	off	__--
Internal (025)	Ld	Ms. Goh	on	Dist+RotaSp	ModWheel	off	__--	ModWheel	off	__--
Internal (026)	Pd	Crucible	on	Phaser	ModWheel	ins.ef	123-	ModWheel	off	___
Internal (027)	Fx	Darkworld	on	Symphonic	General1(CS)	flt reso	_2--	ModWheel	off	__--
Internal (028)	Se	Swamp	on	Symphonic	General1(CS)	flt cutof	123-	ModWheel	off	___
Internal (029)	Sc	Harpsync	on	Aural Exc	ModWheel	off	___	ModWheel	off	___
Internal (030)	Co	Bohemian	on	Symphonic	ModWheel	ins.ef	1234	ModWheel	off	___
Internal (031)	Pf	Phase Clav	on	Phaser	ModWheel	ins.ef	12--	ModWheel	off	__--
Internal (032)	Cp	Anvil	on	Symphonic	ModWheel	off	__--	ModWheel	off	__--
Internal (033)	Gt	Fuzzphazer	on	Dist Phaser	General1(CS)	sys.ef 3	12--	ModWheel	off	__--
Internal (034)	Ba	Tread	on	3 Band EQ	ModWheel	off	__--	ModWheel	off	__--
Internal (035)	St	Hudi Blu	on	Reverb Room	ModWheel	off	__--	ModWheel	off	__--
Internal (036)	En	Arco Pizz	on	3 Band EQ	ModWheel	sys.ef 3	12--	General1(CS)	flt cutof	_2--
Internal (037)	Br	Sfz Synth	off	3 Band EQ	ModWheel	off	__--	ModWheel	off	__--
Internal (038)	Rd	Oboe	on	3 Band EQ	ModWheel	off	___	ModWheel	off	___
Internal (039)	Ld	Stop n' Go	on	Delay L,R	ModWheel	off	__--	ModWheel	off	__--
Internal (040)	Pd	Wave Pad	on	Symphonic	General1(CS)	amp level	_2--	ModWheel	off	__--
Internal (041)	Fx	Sub Hull	on	Symphonic	General1(CS)	elm pan	12--	General1(CS)	flt reso	12--
Internal (042)	Se	Nosferatu	on	Cross Delay	ModWheel	amp level	1___	ModWheel	off	___
Internal (043)	Sc	MotorOrgan	on	Rotary Sp.	ModWheel	off	__--	ModWheel	off	__--
Internal (044)	Co	Candy	on	Delay L,R	ModWheel	off	___	ModWheel	off	___
Internal (045)	Pf	Midi Grand	on	Chorus B	ModWheel	off	___	ModWheel	off	___
Internal (046)	Cp	Clanger	off	3 Band EQ	ModWheel	aeg releas	12--	ModWheel	off	__--
Internal (047)	Gt	12 String	on	3 Band EQ	ModWheel	off	___	ModWheel	off	___
Internal (048)	Ba	Mad House	on	3 Band EQ	ModWheel	off	__--	ModWheel	off	__--
Internal (049)	St	Violin AT	on	3 Band EQ	ModWheel	off	_---	ModWheel	off	_---
Internal (050)	En	Tutti Orch	on	Symphonic	General1(CS)	amp level	123_	ModWheel	off	___

ELEMENT															
Element 1				Element 2				Element 3				Element 4			
Element Bank	Element Number	Element Category	Element Name	Element Bank	Element Number	Element Category	Element Name	Element Bank	Element Number	Element Category	Element Name	Element Bank	Element Number	Element Category	Element Name
P2	158	Se	Seq2	P2	44	Pd	Pad10	P2	29	Ld	PanLd2	off	--	--	
P1	40	Pf	Stuff2	P1	17	Pf	EP6	P1	15	Pf	EP4	P1	43	Pf	Stuff5
P1	83	Or	Organ9	P1	51	Cp	Clste1	P1	83	Or	Organ9	off	--	--	
P1	121	Gt	OvDrv1	P1	116	Gt	Mute1	P1	124	Gt	Harm2	P2	134	Se	FretNoiz
P1	132	Ba	AccBass2	P1	142	Ba	Fretls2	P2	134	Se	FretNoiz	P2	117	Pc	AtkNoiz
P1	184	St	Violin1	P1	173	St	String5	P1	198	En	Choir1	off	--	--	
P2	67	Pd	Pad33	P2	67	Pd	Pad33	P1	203	En	Choir6	P1	203	En	Choir6
P2	14	Ld	Saw4	P1	183	St	SynSt5	P2	14	Ld	Saw4	off	--	--	
P1	252	Rd	Clari2	off	--	--		off	--	--		off	--	--	
P2	65	Pd	Pad31	P2	65	Pd	Pad31	off	--	--		off	--	--	
P1	198	En	Choir1	P1	67	Cp	Digi1	off	--	--		off	--	--	
P2	100	Et	Sitar	P2	100	Et	Sitar	P2	103	Et	Koto	off	--	--	
P2	130	Se	Seq1	P2	130	Se	Seq1	off	--	--		off	--	--	
P2	15	Ld	Saw5	P1	152	Ba	SynBs3	off	--	--		off	--	--	
P2	65	Pd	Pad31	P2	65	Pd	Pad31	off	--	--		off	--	--	
P1	181	St	SynSt3	P1	181	St	SynSt3	P1	181	St	SynSt3	P1	159	Ba	SynBs10
P1	50	Pf	Stuff12	P1	48	Pf	Stuff10	off	--	--		off	--	--	
P2	116	Pc	DigiWobb	P2	112	Pc	SynBell	P1	55	Cp	Dulsim	P2	116	Pc	DigiWobb
P1	107	Gt	Clean5	P1	117	Gt	Mute2	off	--	--		off	--	--	
P2	178	Dr	BDAnalog	P1	155	Ba	SynBs6	off	--	--		off	--	--	
P1	174	St	String6	P1	174	St	String6	off	--	--		off	--	--	
P1	200	En	Choir3	off	--	--		off	--	--		off	--	--	
P1	239	Br	SynBrs11	P1	229	Br	SynBrs1	P1	234	Br	SynBrs6	off	--	--	
P1	244	Rd	TenorSx1	P2	122	Se	TrkBrake	off	--	--		off	--	--	
P1	79	Or	Organ5	P2	58	Pd	Pad24	off	--	--		off	--	--	
P2	62	Pd	Pad28	P1	209	En	Choir12	P1	209	En	Choir12	off	--	--	
P2	100	Et	Sitar	P1	23	Pf	EP12	off	--	--		off	--	--	
P2	127	Se	Swamp	P2	128	Se	Stream	P2	166	Se	Tweet 2	off	--	--	
P1	44	Pf	Stuff6	P1	109	Gt	Jazz1	P1	38	Pf	Harpsi3	off	--	--	
P1	142	Ba	Fretls2	P2	45	Pd	Pad11	P1	158	Ba	SynBs9	P1	207	En	Choir10
P1	30	Pf	Clav1	P1	49	Pf	Stuff11	off	--	--		off	--	--	
P2	151	Se	MtIBel1	P2	151	Se	MtIBel1	off	--	--		off	--	--	
P1	120	Gt	Dist2	P1	105	Gt	Clean3	off	--	--		off	--	--	
P2	19	Ld	SquSaw	P2	14	Ld	Saw4	off	--	--		off	--	--	
P1	184	St	Violin1	P1	116	Gt	Mute1	off	--	--		off	--	--	
P1	170	St	String2	P1	191	St	Pizz	off	--	--		off	--	--	
P1	233	Br	SynBrs5	P1	240	Br	SynBrs12	off	--	--		off	--	--	
P1	253	Rd	Oboe	P1	253	Rd	Oboe	P1	253	Rd	Oboe	P1	253	Rd	Oboe
P2	27	Ld	Digi7	P2	27	Ld	Digi7	off	--	--		off	--	--	
P1	198	En	Choir1	P1	73	Cp	Stuff2	off	--	--		off	--	--	
P2	93	Fx	Bandsa	P2	93	Fx	Bandsa	off	--	--		off	--	--	
P1	63	Cp	TublBl	P1	214	En	Vox5	P1	170	St	String2	P1	225	Br	Horn
P2	33	Ld	RezLd	P2	33	Ld	RezLd	off	--	--		off	--	--	
P1	245	Rd	TenorSx2	P2	56	Pd	Pad22	P2	44	Pd	Pad10	P2	38	Pd	Pad4
P1	2	Pf	A.Piano2	P1	16	Pf	EP5	P1	16	Pf	EP5	off	--	--	
P1	21	Pf	EP10	P1	63	Cp	TublBl	off	--	--		off	--	--	
P1	55	Cp	Dulsim	P1	100	Gt	Steel1	P1	101	Gt	Steel2	off	--	--	
P2	17	Ld	Squ	P1	155	Ba	SynBs6	off	--	--		off	--	--	
P1	184	St	Violin1	off	--	--		off	--	--		off	--	--	
P1	170	St	String2	P1	192	St	Timpani	P1	218	En	OrchHit	P1	192	St	Timpani

VOICE			INSERTION EFFECT		MIDI CONTROL					
Voice Number	Voice Category	Voice Name	Effect Mode	Effect Type	MC 1			MC 2		
					Device	Parameter	Enable*	Device	Parameter	Enable*
Internal (051)	Br	Radio Band	on	3 Band EQ	General1(CS)	flt cutof	_2--	ModWheel	off	__--
Internal (052)	Rd	Soprano	on	3 Band EQ	ModWheel	off	__--	ModWheel	off	__--
Internal (053)	Ld	Brash	on	Pitch Chng 1	ModWheel	off	__--	ModWheel	off	__--
Internal (054)	Pd	Vector 99	on	Reverb Hall	ModWheel	off	___-	ModWheel	off	___-
Internal (055)	Fx	Covenant	on	Pitch Chng 1	ModWheel	lfo speed	12_-	ModWheel	off	___-
Internal (056)	Se	Frightmare	on	Pitch Chng 2	ModWheel	off	___	ModWheel	off	___
Internal (057)	Sc	Mod Comp	on	Symphonic	ModWheel	off	_---	ModWheel	off	_---
Internal (058)	Co	JazzItUp	on	Reverb Stage	ModWheel	off	___	ModWheel	off	___
Internal (059)	Pf	Wah Clav	on	Dist+Wah	ModWheel	ins.ef	1---	ModWheel	off	_---
Internal (060)	Cp	Magik Bell	on	Aural Exc	ModWheel	off	_---	ModWheel	off	_---
Internal (061)	Ba	Le Thump	on	Dist+Comp	ModWheel	off	___-	ModWheel	off	___-
Internal (062)	St	Viola AT	on	3 Band EQ	ModWheel	off	_---	ModWheel	off	_---
Internal (063)	Br	CS94	on	3 Band EQ	General1(CS)	flt cutof	12_-	ModWheel	off	___-
Internal (064)	Rd	CorAnglais	off	3 Band EQ	ModWheel	off	_---	ModWheel	off	_---
Internal (065)	Ld	Trumplead	on	Delay L,R	ModWheel	flt cutof	12_-	ModWheel	off	___-
Internal (066)	Pd	DroogStrng	on	Pitch Chng 1	ModWheel	off	__--	ModWheel	off	__--
Internal (067)	Fx	Recovery	on	3 Band EQ	ModWheel	off	___-	ModWheel	off	___-
Internal (068)	Se	SpaceTrip	on	Symphonic	ModWheel	off	__--	ModWheel	off	__--
Internal (069)	Sc	Splash	on	Symphonic	ModWheel	ins.ef	123-	ModWheel	off	___-
Internal (070)	Co	Andean	on	Reverb Hall	ModWheel	off	___	ModWheel	off	___
Internal (071)	Pf	Fuzz E.P.	on	Symphonic	ModWheel	ins.ef	12--	ModWheel	off	__--
Internal (072)	Cp	Tiny Bell	on	Symphonic	ModWheel	elm tune	1__-	ModWheel	elm tune	_2_-
Internal (073)	Ba	Pace Bass	on	Symphonic	ModWheel	off	__--	ModWheel	off	__--
Internal (074)	St	Cello AT	on	3 Band EQ	ModWheel	off	___-	ModWheel	off	___-
Internal (075)	Br	Sfz High	off	3 Band EQ	ModWheel	off	___-	ModWheel	off	___-
Internal (076)	Rd	Bassoon	on	3 Band EQ	ModWheel	off	___-	ModWheel	off	___-
Internal (077)	Ld	LectroLead	on	Symphonic	ModWheel	off	___-	ModWheel	off	___-
Internal (078)	Pd	Ultra Pad	on	Flanger A	MInternal	off	_---	ModWheel	off	_---
Internal (079)	Fx	Dante	on	Pitch Chng 1	ModWheel	off	___-	ModWheel	off	___-
Internal (080)	Se	Monster	on	Distortion	ModWheel	lfo speed	1___	ModWheel	off	___
Internal (081)	Sc	Air Vibe	on	Symphonic	ModWheel	ins.ef	123-	ModWheel	off	___-
Internal (082)	Ba	Digi Thump	on	3 Band EQ	ModWheel	off	__--	ModWheel	off	__--
Internal (083)	St	Contra AT	on	3 Band EQ	ModWheel	off	___	ModWheel	off	___
Internal (084)	Br	Sfz Low	off	3 Band EQ	ModWheel	off	_---	ModWheel	off	_---
Internal (085)	Rd	Saxuality	on	Reverb Room	ModWheel	off	___	ModWheel	off	___
Internal (086)	Ld	Rude Lead	on	3 Band EQ	ModWheel	off	__--	ModWheel	off	__--
Internal (087)	Pd	Etholution	on	Flanger A	ModWheel	off	___	ModWheel	off	___
Internal (088)	Fx	Icy	on	Symphonic	ModWheel	off	___-	ModWheel	off	___-
Internal (089)	Se	Sho	on	Dist Reverb	ModWheel	off	___	ModWheel	off	___
Internal (090)	Sc	Elastica	on	Aural Exc	ModWheel	off	__--	ModWheel	off	__--
Internal (091)	Ba	Mogul	on	3 Band EQ	General1(CS)	flt reso	1---	ModWheel	off	_---
Internal (092)	St	Orchestra	on	3 Band EQ	ModWheel	elm pan	_2__	ModWheel	off	___
Internal (093)	Br	Brass Fall	off	3 Band EQ	ModWheel	off	_---	ModWheel	off	_---
Internal (094)	Ld	Trio 3	off	3 Band EQ	ModWheel	off	_---	ModWheel	off	_---
Internal (095)	Pd	HarmoflAng	on	Flanger B	ModWheel	off	___-	ModWheel	off	___-
Internal (096)	Fx	XyloPad	on	Pitch Chng 2	ModWheel	off	___-	ModWheel	off	___-
Internal (097)	Se	Musasi	off	3 Band EQ	ModWheel	off	___-	ModWheel	off	___-
Internal (098)	Sc	Arpsykord	off	3 Band EQ	ModWheel	off	___	ModWheel	off	___
Internal (099)	St	Dreamin'	on	Cross Delay	ModWheel	off	___	ModWheel	off	___
Internal (100)	Co	Big Band	on	3 Band EQ	ModWheel	off	___	ModWheel	off	___

ELEMENT																
Element 1				Element 2				Element 3				Element 4				
Element Bank	Element Number	Element Category	Element Name	Element Bank	Element Number	Element Category	Element Name	Element Bank	Element Number	Element Category	Element Name	Element Bank	Element Number	Element Category	Element Name	
P1	228	Br	BrsSec	P1	218	En	OrchHit	off	--	--		off	--	--		
P1	241	Rd	SprnoSx	P2	157	Se	Seashore	off	--	--		off	--	--		
P1	153	Ba	SynBs4	P1	153	Ba	SynBs4	off	--	--		off	--	--		
P2	41	Pd	Pad7	P2	41	Pd	Pad7	P2	47	Pd	Pad13	off	--	--		
P1	198	En	Choir1	P1	198	En	Choir1	P2	81	Fx	LoopXylo	off	--	--		
P2	130	Se	Seq1	P1	218	En	OrchHit	P1	61	Cp	Hndbel1	P2	148	Se	PnoFrmt	
P1	36	Pf	Harpsi1	off	--	--		off	--	--		off	--	--		
P1	3	Pf	A.Piano3	P1	132	Ba	AccBass2	P2	205	Dr	CyRide	P2	207	Dr	CyCrush	
P1	32	Pf	Clav3	off	--	--		off	--	--		off	--	--		
P1	71	Cp	Digi5	off	--	--		off	--	--		off	--	--		
P1	143	Ba	TumpBs1	P1	133	Ba	FingerBs	P1	133	Ba	FingerBs	off	--	--		
P1	186	St	Viola1	off	--	--		off	--	--		off	--	--		
P1	236	Br	SynBrs8	P1	230	Br	SynBrs2	P1	230	Br	SynBrs2	off	--	--		
P1	250	Rd	EngHrn	off	--	--		off	--	--		off	--	--		
P2	18	Ld	SawSqu	P2	18	Ld	SawSqu	P2	122	Se	TrkBrake	off	--	--		
P1	176	St	String8	P2	45	Pd	Pad11	off	--	--		off	--	--		
P2	149	Se	Quasar	P2	47	Pd	Pad13	P2	57	Pd	Pad23	off	--	--		
P2	115	Pc	TnkBell	P2	115	Pc	TnkBell	off	--	--		off	--	--		
P1	207	En	Choir10	P1	207	En	Choir10	P1	84	Or	Organ10	off	--	--		
P2	166	Se	Tweet 2	P2	157	Se	Seashore	P2	6	Pi	PanFlt2	P1	198	En	Choir1	
P2	89	Fx	DigiFly	P1	11	Pf	E.Grand3	off	--	--		off	--	--		
P1	69	Cp	Digi3	P1	69	Cp	Digi3	P1	69	Cp	Digi3	off	--	--		
P1	158	Ba	SynBs9	P1	164	Ba	SynBs15	off	--	--		off	--	--		
P1	188	St	Cello	P1	184	St	Violin1	P1	188	St	Cello	off	--	--		
P1	228	Br	BrsSec	P2	47	Pd	Pad13	P2	47	Pd	Pad13	off	--	--		
P1	247	Rd	Basson1	P1	249	Rd	BsnStuff	P2	236	Dr	FngSnap	off	--	--		
P2	66	Pd	Pad32	P2	66	Pd	Pad32	P2	21	Ld	Digi1	off	--	--		
P2	58	Pd	Pad24	off	--	--		off	--	--		off	--	--		
P1	45	Pf	Stuff7	P2	76	Fx	SlwSweep	P1	32	Pf	Clav3	off	--	--		
P2	38	Pd	Pad4	P2	17	Ld	Squ	P2	165	Se	Tweet 1	P2	134	Se	FretNoiz	
P1	60	Cp	Glock1	P1	60	Cp	Glock1	P1	207	En	Choir10	off	--	--		
P2	116	Pc	DigiWobb	P1	146	Ba	TumpBs4	off	--	--		off	--	--		
P1	189	St	Contra	P1	188	St	Cello	P1	186	St	Viola1	P1	188	St	Cello	
P1	223	Br	TrmBone	off	--	--		off	--	--		off	--	--		
P1	242	Rd	AltoSx	P1	245	Rd	TenorSx2	P1	219	Br	Trumpet	P1	246	Rd	BariSx	
P1	88	Or	Harmoni2	P2	26	Ld	Digi6	off	--	--		off	--	--		
P2	59	Pd	Pad25	P1	152	Ba	SynBs3	P1	152	Ba	SynBs3	P1	152	Ba	SynBs3	
P2	57	Pd	Pad23	P2	29	Ld	PanLd2	P1	61	Cp	Hndbel1	off	--	--		
P1	253	Rd	Oboe	P1	253	Rd	Oboe	P1	241	Rd	SprnoSx	P2	107	Pc	TaikoDrm	
P1	210	En	Vox1	P1	201	En	Choir4	off	--	--		off	--	--		
P1	150	Ba	SynBs1	off	--	--		off	--	--		off	--	--		
P1	170	St	String2	P1	170	St	String2	P1	192	St	Timpani	P1	225	Br	Horn	
P1	228	Br	BrsSec	off	--	--		off	--	--		off	--	--		
P2	17	Ld	Squ	off	--	--		off	--	--		off	--	--		
P2	33	Ld	RezLd	P2	33	Ld	RezLd	P2	33	Ld	RezLd	off	--	--		
P2	168	Se	Xyloop	P2	168	Se	Xyloop	P2	71	Pd	Pad37	off	--	--		
P2	157	Se	Seashore	P2	102	Et	Shamisen	P1	254	Pi	Shaku8	off	--	--		
P1	32	Pf	Clav3	P1	34	Pf	Clav5	P1	25	Pf	EP14	P2	143	Se	KeyNoise	
P1	70	Cp	Digi4	P1	70	Cp	Digi4	P1	132	Ba	AccBass2	P2	157	Se	Seashore	
P1	245	Rd	TenorSx2	P1	132	Ba	AccBass2	P1	223	Br	TrmBone	P1	228	Br	BrsSec	

VOICE			INSERTION EFFECT		MIDI CONTROL					
Voice Number	Voice Category	Voice Name	Effect Mode	Effect Type	MC 1			MC 2		
					Device	Parameter	Enable*	Device	Parameter	Enable*
Internal (101)	Ld	Rock Pig	on	Dist PtChng	General1(CS)	elm tune	1_--	ModWheel	off	__--
Internal (102)	Pd	Softly	on	Chorus B	ModWheel	off	___-	ModWheel	off	___-
Internal (103)	Fx	To Heaven	on	Symphonic	ModWheel	off	___-	ModWheel	off	___-
Internal (104)	Se	Tripper	on	Auto PAN	ModWheel	ins.ef	1234	ModWheel	off	___
Internal (105)	St	StereoFizz	off	3 Band EQ	ModWheel	off	__--	ModWheel	off	__--
Internal (106)	Ld	LectroHarp	on	3 Band EQ	ModWheel	off	__--	ModWheel	off	__--
Internal (107)	Pd	Discovery	on	Symphonic	ModWheel	flt cutof	__3-	ModWheel	lfo speed	12_
Internal (108)	Fx	Africa	on	Symphonic	ModWheel	off	___	ModWheel	off	___
Internal (109)	Se	Storm	on	Distortion	ModWheel	flt cutof	1_--	ModWheel	off	__--
Internal (110)	Pd	Bell Aah	on	Cross Delay	ModWheel	amp level	__3-	ModWheel	off	___-
Internal (111)	Fx	Creation	on	Cross Delay	ModWheel	amp level	__3-	ModWheel	off	___-
Internal (112)	Se	Digestion	on	3 Band EQ	ModWheel	lfo speed	1---	ModWheel	off	___
Internal (113)	Pd	VectorPad	off	3 Band EQ	ModWheel	off	___	ModWheel	off	___
Internal (114)	Fx	Coral	on	3 Band EQ	ModWheel	off	___	ModWheel	off	___
Internal (115)	Pd	Solaris	on	Reverb Hall	ModWheel	off	___	ModWheel	off	___
Internal (116)	Se	Lightsabre	on	Symphonic	General1(CS)	flt cutof	_2--	ModWheel	off	__--
Internal (117)	Pd	Anti Pad	on	Phaser	ModWheel	ins.ef	12--	ModWheel	off	__--
Internal (118)	Fx	Light	off	3 Band EQ	ModWheel	aeg releas	1234	ModWheel	off	___
Internal (119)	Pd	VulcanHarp	off	3 Band EQ	ModWheel	off	___	ModWheel	off	___
Internal (120)	Fx	Shimmy	off	3 Band EQ	ModWheel	off	___	ModWheel	off	___
Internal (121)	Pd	Far Winds	off	3 Band EQ	ModWheel	off	__--	ModWheel	off	__--
Internal (122)	Fx	Dew Drops	off	3 Band EQ	ModWheel	lfo speed	_2_	ModWheel	off	___-
Internal (123)	Pd	VS Pads	on	Symphonic	ModWheel	off	___	ModWheel	off	___
Internal (124)	Fx	Ghosts	on	Symphonic	ModWheel	ins.ef	1---	ModWheel	off	___
Internal (125)	Pd	Ooh One	on	Stereo Echo	ModWheel	off	___-	ModWheel	off	___-
Internal (126)	Fx	Igloo	on	Flanger A	ModWheel	lfo speed	1___	General1(CS)	ins.ef	1234
Internal (127)	Fx	12 Bit Hit	off	3 Band EQ	ModWheel	off	__--	ModWheel	off	__--
Internal (128)	Fx	Pulsar	on	Pitch Chng 2	ModWheel	lfo speed	_2__	ModWheel	off	___

ELEMENT															
Element 1				Element 2				Element 3				Element 4			
Element Bank	Element Number	Element Category	Element Name	Element Bank	Element Number	Element Category	Element Name	Element Bank	Element Number	Element Category	Element Name	Element Bank	Element Number	Element Category	Element Name
P2	129	Se	Simmer	P1	51	Cp	Clste1	off	--	--		off	--	--	
P2	49	Pd	Pad15	P2	49	Pd	Pad15	P2	72	Pd	Pad38	off	--	--	
P2	60	Pd	Pad26	P2	71	Pd	Pad37	P1	207	En	Choir10	off	--	--	
P1	54	Cp	Clste4	P2	71	Pd	Pad37	P2	49	Pd	Pad15	P2	163	Se	TuneRes1
P1	177	St	String9	P1	177	St	String9	off	--	--		off	--	--	
P1	34	Pf	Clav5	P1	88	Or	Harmoni2	off	--	--		off	--	--	
P2	74	Pd	Pad40	P2	74	Pd	Pad40	P2	45	Pd	Pad11	off	--	--	
P2	81	Fx	LoopXylo	P2	81	Fx	LoopXylo	P2	6	Pi	PanFlt2	P2	123	Se	Bush
P2	91	Fx	Thundr	P2	120	Se	Applaus1	off	--	--		off	--	--	
P1	53	Cp	Clste3	P2	56	Pd	Pad22	P1	207	En	Choir10	off	--	--	
P2	46	Pd	Pad12	P2	94	Fx	EP-S&H	P1	212	En	Vox3	off	--	--	
P2	159	Se	Shilling	off	--	--		off	--	--		off	--	--	
P2	69	Pd	Pad35	P2	69	Pd	Pad35	P2	75	Pd	Pad41	P2	80	Fx	Dissolve
P2	141	Se	Faw	P2	141	Se	Faw	P1	209	En	Choir12	P1	183	St	SynSt5
P2	51	Pd	Pad17	P1	63	Cp	TubIBI	P1	192	St	Timpani	P2	50	Pd	Pad16
P2	93	Fx	Bandsa	P2	93	Fx	Bandsa	off	--	--		off	--	--	
P2	70	Pd	Pad36	P2	70	Pd	Pad36	off	--	--		off	--	--	
P2	51	Pd	Pad17	P2	88	Fx	Octivate	P2	150	Se	MadTinke	P2	48	Pd	Pad14
P1	32	Pf	Clav3	P1	55	Cp	Dulsim	P2	49	Pd	Pad15	P2	48	Pd	Pad14
P2	114	Pc	Shimmer	P2	71	Pd	Pad37	P2	46	Pd	Pad12	P2	71	Pd	Pad37
P1	204	En	Choir7	P1	217	En	Vox8	off	--	--		off	--	--	
P2	131	Se	DrinkFiz	P2	80	Fx	Dissolve	P2	105	Pc	DigiMari	off	--	--	
P2	76	Fx	SlwSweep	P2	44	Pd	Pad10	P2	81	Fx	LoopXylo	P2	46	Pd	Pad12
P2	163	Se	TuneRes1	off	--	--		off	--	--		off	--	--	
P1	170	St	String2	P2	220	Dr	BellTree	P1	206	En	Choir9	off	--	--	
P2	78	Fx	RevSyn	P1	180	St	SynSt2	P2	71	Pd	Pad37	P2	240	Dr	TryAngle
P1	218	En	OrchHit	P2	215	Dr	Grancs	off	--	--		off	--	--	
P1	198	En	Choir1	P1	159	Ba	SynBs10	P1	199	En	Choir2	P1	59	Cp	Vibe4

DRUM VOICE LIST

Drum-Voice-Liste

Drum-Voice-Liste				GM								Preset	
Drum#	Note	Key Off	Alt.	GM-1	GM-9	GM-17	GM-25	GM-26	GM-33	GM-41	GM-49	Pre-1	Pre-2
				Standard Kit	Room Kit	Rock Kit	Electro Kit	Analog Kit	Jazz Kit	Brush Kit	Classic Kit	Preset1(QY10)	Preset2(SY85)
24	C 0			Click H									
25	C# 0			Brush Tap									
26	D 0	O		Brush Swirl L									
27	D# 0			Brush Slap									
28	E 0	O		Brush Swirl H			Reverse Cymbal	Reverse Cymbal					
29	F 0	O		Snare Roll									
30	F# 0			Castanet			Hi Q	Hi Q					
31	G 0			Snare L		SD Power M	Snare M	SD Power H		Brush Slap L			
32	G# 0			Sticks									
33	A 0			Bass Drum L		Bass Drum M	Bass Drum H	Bass Drum M					
34	A# 0			Open Rim Shot									
35	B 0			Bass Drum M		Bass Drum H	BD Power	BD Analog L					
36	C 1			Bass Drum H		BD Power	BD Gate	BD Analog H			Gran Cassa	Bass Drum H	BD Power
37	C# 1			Side Stick				Analog Side Stick				BD Gate	BD RoomS
38	D 1			Snare M		SD Rock	SD Power L	Analog Snare L		Brush Slap		SD Rock	Bass Drum H
39	D# 1			Hand Clap								Snare M	Bass Drum L
40	E 1			Snare H		SD Power Rim	SD Power H	Analog Snare H		Brush Tap		Room Tom 1	Room Tom 1
41	F 1			Floor Tom L	Room Tom 1	Power Tom 1	E Tom 1	Analog Tom 1	Jazz Tom 1	Brush Tom 1	Jazz Tom 1	Room Tom 2	Room Tom 2
42	F# 1		1	Closed Hi Hat				Analog HH Closed 1				Room Tom 3	Room Tom 3
43	G 1			Floor Tom H	Room Tom 2	Power Tom 2	E Tom 2	Analog Tom 2	Jazz Tom 2	Brush Tom 2	Jazz Tom 2	Hand Clap	Room Tom 4
44	G# 1		1	Pedal Hi-Hat				Analog HH Closed 2				Crash Cymbal	Bass Drum L
45	A 1			Low Tom	Room Tom 3	Power Tom 3	E Tom 3	Analog Tom 3	Jazz Tom 3	Brush Tom 3	Jazz Tom 3	Side Stick	Bass Drum H
46	A# 1		1	Hi-Hat Open				Analog HH Open				Ride Cymbal Cup	SD Power M
47	B 1			Mid Tom L	Room Tom 4	Power Tom 4	E Tom 4	Analog Tom 4	Jazz Tom 4	Brush Tom 4	Jazz Tom 4	Closed Hi Hat	Tom 1
48	C 2			Mid Tom H	Room Tom 5	Power Tom 5	E Tom 5	Analog Tom 5	Jazz Tom 5	Brush Tom 5	Jazz Tom 5	Hi-Hat Open	Tom 2
49	C# 2			Crash Cymbal 1								Hand Cym.Open L	Snare 1
50	D 2			High Tom	Room Tom 6	Power Tom 6	E Tom 6	Analog Tom 6	Jazz Tom 6	Brush Tom 6	Jazz Tom 6		Tom 3
51	D# 2			Ride Cymbal 1								Hand Cym.Closed L	Side Stick
52	E 2			Chinese Cymbal									Snare 2
53	F 2			Ride Cymbal Cup									Tom 4
54	F# 2			Tambourine									Hand Clap
55	G 2			Splash Cymbal									Cowbell
56	G# 2			Cowbell									Shaker
57	A 2			Crash Cymbal 2							Hand Cym.Open H		Closed Hi Hat
58	A# 2			Vibraslap									Closed Hi Hat2
59	B 2			Ride Cymbal 2							Hand Cym.Closed H		Hi-Hat Open
60	C 3			Bongo H								BDAnalog	Crash Cymbal 1
61	C# 3			Bongo L								Cowbell	Crash Cymbal 2
62	D 3			Conga H Mute				Analog Conga H			SDPower	Ride Cymbal	
63	D# 3			Conga H Open				Analog Conga M			SDAna9	Ride Cymbal Cup	
64	E 3			Conga L				Analog Conga L			CongaOpL	Conga L Open	
65	F 3			Timbale H							CongaOpH	Conga H Mute	
66	F# 3			Timbale L							CongaMt	Conga H Open	
67	G 3			High Agogo							AgogoL	Bongo L	
68	G# 3			Low Agogo							AgogoH	Bongo H	
69	A 3			Cabassa							TimbleL	Timble L	
70	A# 3			Maracas							TimbleH	Timble H	
71	B 3	O		Samba Whistle H							HHAnCls	Tumbrn	
72	C 4	O		Samba Whistle L							Shaker	Clave	
73	C# 4			Guiro Short									Wood Block
74	D 4	O		Guiro Long									Agogo L
75	D# 4			Claves									Agogo H
76	E 4			Wood Block H									Samba Whistle
77	F 4			Wood Block L									BDAnalog
78	F# 4			Cuica Mute			Scratch Push	Scratch Push					Squ
79	G 4			Cuica Open			Scratch Pull	Scratch Pull					BDGate
80	G# 4		2	Triangle Mute									HHAnCls
81	A 4		2	Triangle Open									SDAna9
82	A# 4			Shaker									HHAnOpn
83	B 4			Jingle Bell									SDAna8
84	C 5			Bell Tree									SynBsC
85	C# 5			Hi Q									SynBsC#
86	D 5												SynBsD
87	D# 5												SynBsD#
88	E 5												SynBsE
89	F 5												SynBsF
90	F# 5												SynBsF#
91	G 5												SynBsG
92	G# 5												SynBsG#
93	A 5												SynBsA
94	A# 5												SynBsA#
95	B 5												SynBsB
96	C 6												SynBsC

: Same as Standard Kit
 : No Sound

ELEMENT LIST

Element-Liste
Liste des Eléments

Element Bank	Element Number	Category	LCD	Name
P1	1	Pf	A.Piano1	Acoustic Piano1
	2		A.Piano2	Acoustic Piano2
	3		A.Piano3	Acoustic Piano3
	4		A.Piano4	Acoustic Piano4
	5		A.Piano5	Acoustic Piano5
	6		A.Piano6	Acoustic Piano6
	7		A.Piano7	Acoustic Piano7
	8		A.Piano8	Acoustic Piano8
	9		E.Grand1	Electric Grand Piano1
	10		E.Grand2	Electric Grand Piano2
	11		E.Grand3	Electric Grand Piano3
	12		EP1	Electric Piano1
	13		EP2	Electric Piano2
	14		EP3	Electric Piano3
	15		EP4	Electric Piano4
	16		EP5	Electric Piano5
	17		EP6	Electric Piano6
	18		EP7	Electric Piano7
	19		EP8	Electric Piano8
	20		EP9	Electric Piano9
	21		EP10	Electric Piano10
	22		EP11	Electric Piano11
	23		EP12	Electric Piano12
	24		EP13	Electric Piano13
	25		EP14	Electric Piano14
	26		EP15	Electric Piano15
	27		EP16	Electric Piano16
	28		EP17	Electric Piano17
	29		EP18	Electric Piano18
	30		Clav1	Clavi 1
	31		Clav2	Clavi 2
	32		Clav3	Clavi 3
	33		Clav4	Clavi 4
	34		Clav5	Clavi 5
	35		Clav6	Clavi 6
	36		Harpsi1	Harpsicord1
	37		Harpsi2	Harpsicord2
	38		Harpsi3	Harpsicord3
	39		Stuff1	Piano Stuff1
	40		Stuff2	Piano Stuff2
	41		Stuff3	Piano Stuff3
	42		Stuff4	Piano Stuff4
	43		Stuff5	Piano Stuff5

Element Bank	Element Number	Category	LCD	Name
P1	44	Pf	Stuff6	Piano Stuff6
	45		Stuff7	Piano Stuff7
	46		Stuff8	Piano Stuff8
	47		Stuff9	Piano Stuff9
	48		Stuff10	Piano Stuff10
	49		Stuff11	Piano Stuff11
	50		Stuff12	Piano Stuff12
	51	Cp	Clste1	Celeste1
	52		Clste2	Celeste2
	53		Clste3	Celeste3
	54		Clste4	Celeste4
	55		Dulcimer	Dulcimer
	56		Vibe1	Vibe1
	57		Vibe2	Vibe2
	58		Vibe3	Vibe3
	59		Vibe4	Vibe4
	60		Glocken	Glockenspiel
	61		Hndbel1	HandBell1
	62		Hndbel2	HandBell2
	63		TublBl	Tubular Bells
	64		StlDrum	SteelDrum
	65		Marimba	Marimba
	66		Xylophne	Xylophone
	67		Digi1	Digital Cp sound1
	68		Digi2	Digital Cp sound2
	69		Digi3	Digital Cp sound3
	70		Digi4	Digital Cp sound4
	71		Digi5	Digital Cp sound5
	72		Stuff1	Cp Stuff1
	73		Stuff2	Cp Stuff2
	74		Stuff3	Cp Stuff3
	75	Or	Organ1	Organ1
	76		Organ2	Organ2
	77		Organ3	Organ3
	78		Organ4	Organ4
	79		Organ5	Organ5
	80		Organ6	Organ6
	81		Organ7	Organ7
	82		Organ8	Organ8
	83		Organ9	Organ9
	84		Organ10	Organ10
	85		Organ11	Organ11
	86		Organ12	Organ12

Element Bank	Element Number	Category	LCD	Name
P1	87	Or	Harmoni1	Harmonica1
	88		Harmoni2	Harmonica2
	89		Accrdion	Accordion
	90		Reed1	Reed1
	91		Reed2	Reed2
	92		Reed3	Reed3
	93		Stuff1	Reed Stuff1
	94		Stuff2	Reed Stuff2
	95		Stuff3	Reed Stuff3
	96		Stuff4	Reed Stuff4
	97	Gt	Nylon1	Nylon Guitar1
	98		Nylon2	Nylon Guitar2
	99		Nylon3	Nylon Guitar3
	100		Steel1	Steel Guitar1
	101		Steel2	Steel Guitar2
	102		Steel3	Steel Guitar3
	103		Clean1	Clean Guitar1
	104		Clean2	Clean Guitar2
	105		Clean3	Clean Guitar3
	106		Clean4	Clean Guitar4
	107		Clean5	Clean Guitar5
	108		Clean6	Clean Guitar6
	109		Jazz1	Jazz Gutar1
	110		Jazz2	Jazz Gutar2
	111		Jazz3	Jazz Gutar3
	112		Jazz4	Jazz Gutar4
	113		12St-1	12 String guitar1
	114		12St-2	12 String guitar1
	115		12St-3	12 String guitar1
	116		Mute1	Muted Guitar1
	117		Mute2	Muted Guitar2
	118		Mute3	Muted Guitar3
	119		Dist1	Distortion Guitar1
	120		Dist2	Distortion Guitar2
	121		Ovdrv1	Overdrive Guitar1
	122		Ovdrv2	Overdrive Guitar2
	123		Harm1	Guitar Harmonics1
	124		Harm2	Guitar Harmonics2
	125		Stuff1	Guitar Stuff1
	126		Stuff2	Guitar Stuff2
	127		Stuff3	Guitar Stuff3
	128		Stuff4	Guitar Stuff4
	129		Stuff5	Guitar Stuff5

Element Bank	Element Number	Category	LCD	Name
P1	130	Gt	Stuff6	Guitar Stuff6
	131	Ba	A.Bass1	Acoustic Bass1
	132		A.Bass2	Acoustic Bass2
	133		FingerBs	Finger Bass1
	134		PickBs1	Pick Bass1
	135		PickBs2	Pick Bass2
	136		AlenBs1	Alen Bass1
	137		AlenBs2	Alen Bass2
	138		AlenBs3	Alen Bass3
	139		AlenBs4	Alen Bass4
	140		BeatleBs	Beatle Bass1
	141		Fretls1	Fretless Bass1
	142		Fretls2	Fretless Bass2
	143		TumpBs1	Thump Bass1
	144		TumpBs2	Thump Bass2
	145		TumpBs3	Thump Bass3
	146		TumpBs4	Thump Bass4
	147		TumpBs5	Thump Bass5
	148		SlapBs1	Slap Bass1
	149		SlapBs2	Slap Bass2
	150		SynBs1	Synth Bass1
	151		SynBs2	Synth Bass2
	152		SynBs3	Synth Bass3
	153		SynBs4	Synth Bass4
	154		SynBs5	Synth Bass5
	155		SynBs6	Synth Bass6
	156		SynBs7	Synth Bass7
	157		SynBs8	Synth Bass8
	158		SynBs9	Synth Bass9
	159		SynBs10	Synth Bass10
	160		SynBs11	Synth Bass11
	161		SynBs12	Synth Bass12
	162		SynBs13	Synth Bass13
	163		SynBs14	Synth Bass14
	164		SynBs15	Synth Bass15
	165		SynBs16	Synth Bass16
	166		SynBs17	Synth Bass17
	167		Stuff1	Bass Stuff1
	168		Stuff2	Bass Stuff2
	169	St	Strings1	Strings1
	170		Strings2	Strings2
	171		Strings3	Strings3
	172		Strings4	Strings4

Element Bank	Element Number	Category	LCD	Name
P1	173	St	Strings5	Strings5
	174		Strings6	Strings6
	175		Strings7	Strings7
	176		Strings8	Strings8
	177		Strings9	Strings9
	178		TrmStr	Tremoro Strings
	179		SynSt1	Synth Strings1
	180		SynSt2	Synth Strings2
	181		SynSt3	Synth Strings3
	182		SynSt4	Synth Strings4
	183		SynSt5	Synth Strings5
	184		Violin1	Violin1
	185		Violin2	Violin2
	186		Viola1	Viola1
	187		Viola2	Viola2
	188		Cello	Cello
	189		Contra	Contrabass
	190		Harp	Harp
	191		Pizz	Pizzicato
	192		Timpani	Timpani
	193		Stuff1	Strings Stuff1
	194		Stuff2	Strings Stuff2
	195		Stuff3	Strings Stuff3
	196		Stuff4	Strings Stuff4
	197		Stuff5	Strings Stuff5
	198	En	Choir1	Choir1
	199		Choir2	Choir2
	200		Choir3	Choir3
	201		Choir4	Choir4
	202		Choir5	Choir5
	203		Choir6	Choir6
	204		Choir7	Choir7
	205		Choir8	Choir8
	206		Choir9	Choir9
	207		Choir10	Choir10
	208		Choir11	Choir11
	209		Choir12	Choir12
	210		Vox1	Vox1
	211		Vox2	Vox2
	212		Vox3	Vox3
	213		Vox4	Vox4
	214		Vox5	Vox5
	215		Vox6	Vox6

Element Bank	Element Number	Category	LCD	Name
P1	216	En	Vox7	Vox7
	217		Vox8	Vox8
	218		OrchHit	Orchestra Hit
	219		Br	Trumpet
	220		TpGrowl	Trumpet Growl
	221		TpSfz	Trumpet Sforzando
	222		MuteTp	Muted Trumpet
	223		TrmBone	Trombone
	224		TbSfz	Trombone Sforzando
	225		Horn	Horn
	226		HrnSfz	Horn Sforzando
	227		Tuba	Tuba
	228		BrsSec	Brass Section
	229		SynBrs1	Synth Brass1
	230		SynBrs2	Synth Brass2
	231		SynBrs3	Synth Brass3
	232		SynBrs4	Synth Brass4
	233		SynBrs5	Synth Brass5
	234		SynBrs6	Synth Brass6
	235		SynBrs7	Synth Brass7
	236		SynBrs8	Synth Brass8
	237		SynBrs9	Synth Brass9
	238		SynBrs10	Synth Brass10
	239		SynBrs11	Synth Brass11
	240		SynBrs12	Synth Brass12
	241	Rd	SprnoSx	Soprano Sax
	242		AltoSx	Alto Sax
	243		AltGrwl	Alto Sax Growl
	244		TenorSx1	Tenor Sax1
	245		TenorSx2	Tenor Sax2
	246		BariSx	Baritone Sax
	247		Basson1	Bassoon1
	248		Basson2	Bassoon2
	249		BsnStuff	Bassoon Stuff
	250		EngHrn	English Horn
	251		Clari1	Clarinet1
	252		Clari2	Clarinet2
	253		Oboe	Oboe
	254	Pi	Shaku8	Shakuhachi
	255		Ocarina	Ocarina
	256		Whistle	Whistle

Element Bank	Element Number	Category	LCD	Name
P2	1	Pi	Flute1	Flute1
	2		Flute2	Flute2
	3		Piccolo	Piccolo
	4		Recrder	Recorder
	5		PanFlt1	PanFlute1
	6		PanFlt2	PanFlute2
	7		PanFlt3	PanFlute3
	8		PanFlt4	PanFlute4
	9		Bottle	Bottle Blow
	10		Noise	Pipe Noise
	11	Ld	Saw1	Saw Lead1
	12		Saw2	Saw Lead2
	13		Saw3	Saw Lead3
	14		Saw4	Saw Lead4
	15		Saw5	Saw Lead5
	16		Saw6	Saw Lead6
	17		Squ	Square Lead
	18		SawSqu	Saw+Squ Lead
	19		SquSaw	Squ+Saw Lead
	20		Sweep	Sweep Lead
	21		Digi1	Digital Lead1
	22		Digi2	Digital Lead2
	23		Digi3	Digital Lead3
	24		Digi4	Digital Lead4
	25		Digi5	Digital Lead5
	26		Digi6	Digital Lead6
	27		Digi7	Digital Lead7
	28		PanLd1	PanFlute Lead1
	29		PanLd2	PanFlute Lead2
	30		BrsLd1	Brass Lead1
	31		BrsLd2	Brass Lead2
	32		VoxLd	Vox Lead
	33		RezLd	Resonant Lead
	34		GtrLd	Guitar Lead
	35	Pd	Pad1	Pad1
	36		Pad2	Pad2
	37		Pad3	Pad3
	38		Pad4	Pad4
	39		Pad5	Pad5
	40		Pad6	Pad6
	41		Pad7	Pad7
	42		Pad8	Pad8
	43		Pad9	Pad9

Element Bank	Element Number	Category	LCD	Name
P2	44	Pd	Pad10	Pad10
	45		Pad11	Pad11
	46		Pad12	Pad12
	47		Pad13	Pad13
	48		Pad14	Pad14
	49		Pad15	Pad15
	50		Pad16	Pad16
	51		Pad17	Pad17
	52		Pad18	Pad18
	53		Pad19	Pad19
	54		Pad20	Pad20
	55		Pad21	Pad21
	56		Pad22	Pad22
	57		Pad23	Pad23
	58		Pad24	Pad24
	59		Pad25	Pad25
	60		Pad26	Pad26
	61		Pad27	Pad27
	62		Pad28	Pad28
	63		Pad29	Pad29
	64		Pad30	Pad30
	65		Pad31	Pad31
	66		Pad32	Pad32
	67		Pad33	Pad33
	68		Pad34	Pad34
	69		Pad35	Pad35
	70		Pad36	Pad36
	71		Pad37	Pad37
	72		Pad38	Pad38
	73		Pad39	Pad39
	74		Pad40	Pad40
	75		Pad41	Pad41
	76	Fx	SlwSweep	Slow Sweep
	77		Hairpin	Hairpin
	78		RevSyn	Reverse Synth
	79		SlowGtr	Slow Strings
	80		Dissolve	Dissolve
	81		LoopXylo	LoopXylo
	82		DlyChoir	Delay Choir
	83		DigiEcho	Digital Echo
	84		Water	Water
	85		AtkChr1	Attack Choir1
	86		AtkChr2	Attack Choir2

Element Bank	Element Number	Category	LCD	Name
P2	87	Fx	TimpMute	Timpani Mute
	88		Octivate	Octivate
	89		DigiFly	DigiFly
	90		BellStuf	Bell Stuff
	91		Thundr	Thunder
	92		WindLoop	WindLoop
	93		Bandsa	Bandsa
	94		EP-S&H	EP Sample&Hold
	95		AtmsGtr	Atmosphere Guitar
	96	Et	Kalimba	Kalimba
	97		BagPipe	Bagpipes
	98		Fiddle	Fiddle
	99		Shanai	Shanai
	100		Sitar	Sitar
	101		Banjo	Banjo
	102		Shamisen	Shamisen
	103		Koto	Koto
	104	Pc	SteelDrm	Steel Drum
	105		DigiMari	Digital Marimba
	106		WdBlock	WoodBlock
	107		TaikoDrm	Taiko Drum
	108		MelodTom	Melodic Tom
	109		SynDrm	Synth Tom
	110		RevCymb1	Reverse Cymbal
	111		Gong	Gong
	112		SynBell	Synth Bell
	113		Clonky	Clonky
	114		Shimmer	Shimmer
	115		TnkIBell	Tinkle Bell
	116		DigiWobb	Digital Wobble
	117		AtkNoiz	Attack Noise
	118		Agogo	Agogo
	119	Se	A.BsNoiz	Acoustic Bass Noise
	120		Applaus1	Applause1
	121		Applaus2	Applause2
	122		TrkBrake	Truck Brake
	123		Bush	Bush
	124		RcdClick	Record Click
	125		RcdNoiz	Record Noise
	126		Scratch	Scratch
	127		Swamp	Swamp
	128		Stream	Stream
	129		Simmer	Simmer

Element Bank	Element Number	Category	LCD	Name
P2	130	Se	Seq1	Sequence1
	131		DrinkFiz	DrinkFiz
	132		FingrFr	Finger Fret
	133		FingrHi	Finger High noise
	134		FretNoiz	Fret Noise
	135		Foo	Foo
	136		GunShot	GunShot
	137		Helicptr	Helicopter
	138		Guffaw1	Guffaw1
	139		Guffaw2	Guffaw2
	140		Guffaw3	Guffaw3
	141		Faw	Faw
	142		Insect	Insect
	143		KeyNoise	KeyNoise
	144		LFO Xylo	LFO Xylo
	145		Evil	Evil
	146		CymSir	CymSir
	147		Games	Games
	148		PnoFrmt	Piano Formant
	149		Quasar	Quasar
	150		MadTinke	MadTinke
	151		MtlBel1	Metal Bell1
	152		MtlBel2	Metal Bell2
	153		MetrClk	Metal Click
	154		Burst	Burst
	155		LngHpPno	Long HPF Piano
	156		PickAtk	Pick Attack
	157		Seashore	Seashore
	158		Seq2	Sequence2
	159		Shilling	Shilling
	160		Simpl'n'	Simpl'n'
	161		SlapAtk	Slap Attack
	162		Telephone	Telephone
	163		TuneRes1	Tuned Resonant1
	164		TuneRes2	Tuned Resonant2
	165		Tweet 1	Tweet 1
	166		Tweet 2	Tweet 2
	167		UpritAtk	Upright Bass Attack
	168		Xyloop	XyLoop
	169	Sc	EpComp	Electric Piano Comp
	170		AtkComp	Atacky Comp
	171		SaxComp	Sax Comp
	172	Dr	BDStdH	Bass Drum Standard Soft

Element Bank	Element Number	Category	LCD	Name
P2	173	Dr	BDStdS	Bass Drum Standard Hard
	174		BDRmH	Bass Drum Room Hard
	175		BDRmS	Bass Drum Room Soft
	176		BDPower	Bass Drum Power
	177		BDGate	Bass Drum Gated
	178		BDAnalog	Bass Drum Analog
	179		BdStd	Bass Drum Standard
	180		SDStd	Snare Drum Standard Hard
	181		SDStdS	Snare Drum Standard Soft
	182		SDStd2	Snare Drum Standard 2
	183		SDRmH1	Snare Drum Room Hard1
	184		SDRmH2	Snare Drum Room Hard2
	185		SDRock	Snare Drum Rock
	186		SDPower	Snare Drum Power
	187		SDPwRim	Snare Drum Power Rim
	188		SDRoll	Snare Drum Roll
	189		SDOpnRim	Snare Drum Open Rim
	190		SDAna8	Snare Drum Analog type8
	191		SDAnaR	Snare Drum Analog Rim
	192		SDAna9	Snare Drum Analog type9
	193		SDSide	Snare Drum Side Stick
	194		TMStdR	Tom Standard Rack
	195		TMStdF	Tom Standard Floor
	196		TMRmF	Tom Room Floor
	197		TMJazz	Tom Jazz
	198		TMAna	Tom Analog
	199		TMEle	Tom Electric
	200		HHOpen	Hi hat Open
	201		HHPedal	Hi hat Pedal
	202		HHClose	Hi hat Close
	203		HHAnOpn	Hi hat Analog Open
	204		HHAnCls	Hi hat Analog Close
	205		CyRide	Ride Cymbal
	206		CyBell	Ride Bell Cymbal
	207		CyCrush	Crush Cymbal
	208		CyChina	China Cymbal
	209		CyOrch	Orchestra Cymbal
	210		BrsHit	Brush Hit
	211		BrsSwL	Brush Swish Low
	212		BrsSwH	Brush Swish High
	213		BrsSlp	Brush Slap
	214		BrsTom	Brush Tom
	215		Grancs	Gran Cassa

Element Bank	Element Number	Category	LCD	Name
P2	216	Dr	Count	Count
	217		Wadai	Wadaiko
	218		Agogo	Agogo
	219		Bongo	Bongo
	220		BellTree	BellTree
	221		Cabasa	Cabasa
	222		CongaMt	Conga Mute
	223		CongaOp	Conga Slap
	224		ClpAnlg	Clap Analog
	225		Castanet	Castanet
	226		CuiCH	Cuica High
	227		CuiCL	Cuica Low
	228		Clave	Clave
	229		Cowbell	Cowbell
	230		Guiro	Guiro
	231		Hi O	Hi O
	232		Mrcas	Maracas
	233		SleiBell	Sleigh Bell
	234		Scrach	Scrach
	235		Shaker	Shaker
	236		FngSnap	FingerSnap
	237		SmbWls	Samba whistle
	238		Tambrn	Tambourine
	239		Timble	Timbale
	240		Triangle	Triangle
	241		Tumba	Tumba
	242		VbSlp	Vibra Slap
	243		WoodBlk	Wood Block
	244		Whip	Whip
	245	—	InitElm	Initialized Element

EFFECT PARAMETER LIST

Effekt-Parameter-Liste
Liste des Paramètres d'Effets

The W5/W7's effect section is divided into Insertion Effect and System Effect sections.

1. Insertion Effect

An Insertion Effect can be designated for each voice, and its parameters can be specified in Voice Edit Mode. Up to three Insertion Effects can be used at once in a multi (i.e., up to three voices may have an Insertion Effect applied to them).

2. System Effect

There are three System Effects which can be applied to the overall mix, and send levels for each effect can be adjusted via the mixer.

Insertion Effect Type

01. 3 Band EQ	○	19. Stereo Echo	○
02. Chorus A	○	20. Cross Dly	○
03. Chorus B		21. Early Ref. 1	
04. Flanger A	○	22. Early Ref. 2	
05. Flanger B		23. Gate Reverb	
06. Symphonic		24. Reverse Gate	
07. Phaser		25. Reverb Hall	
08. Auto PAN		26. Reverb Room	
09. Rotary Sp.		27. Reverb Stage	
10. Pit Chng 1	▲	28. Reverb Plate	
11. Pit Chng 2		29. Dist → Chorus	
12. Aural Exc		30. Dist → Flange	
13. Distortion	▲	31. Dist → Sympho	
14. Dist + Comp	▲	32. Dist → Phaser	
15. Dist + Wah	▲	33. Dist → PtChng	
16. Dist + RotaSp		34. Dist → Delay	
17. Delay L,R		35. Dist → Reverb	
18. Delay L,C,R			

NOTE: When Type14:Dist+Comp and 15:Dist+Wah are selected, pan settings in Multi Play Mode will not be effective.

The effects with ○ are Stereo In/Out types, those with ▲ are Mono In/Out types, and the others are Mono In/Stereo Out types.

Type 01: 3 Band EQ

Prm#	Name	Range	(Data)	Tbl#	Ctrl.*
1	Low Freq.	32Hz-2.0KHz	(0-18)	# 7	○
2	Low Gain	-12+12dB	(0-24)		○
3	Mid Freq.	315Hz-10.0KHz	(5-21)	# 9	○
4	Mid Gain	-12+12dB	(0-24)		○
5	Mid Q	0.1 - 5.0	(0-49)		○
6	High Freq.	500Hz-16.0KHz	(0-15)	# 8	○
7	High Gain	-12+12dB	(0-24)		○
8					

Type 02: Chorus A

Prm#	Name	Range	(Data)	Tbl#	Ctrl.*
1	Mod Freq.	0.0-40.28Hz	(0-152)	# 6	○
2	PM Depth	0-100%	(0-100)		○
3	Mod Dly	0.0-50.0ms	(0-500)		
4	Low Freq.	32Hz-2.0KHz	(0-18)	# 7	○
5	Low Gain	-12+12dB	(0-24)		○
6	High Freq.	500Hz-16.0KHz	(0-15)	# 8	○
7	High Gain	-12+12dB	(0-24)		○
8					
W1	Wet:Dry Bal	0-100%	(0-100)		○

*○ = assignable to a controller.

Blank = not assignable to a controller.

Some of the parameters which are assignable to the controller may produce audible interference.

Type 03: Chorus B

Prm#	Name	Range	(Data)	Tbl#	Ctrl.*
1	Mod Freq.	0.0-40.28Hz	(0-152)	# 6	○
2	PM Depth	0-100%	(0-100)		○
3	AM Type	off-Rndm Hard	(0-15)	#16	
4	Mod Dly	0.0-50.0ms	(0-500)		
5	Low Gain	-12+12dB	(0-24)		○
6	Mid Freq.	315Hz-10.0KHz	(5-21)	# 9	○
7	Mid Gain	-12+12dB	(0-24)		○
8	High Gain	-12+12dB	(0-24)		○
W1	Wet:Dry Bal	0-100%	(0-100)		○

Type 04: Flanger A

Prm#	Name	Range	(Data)	Tbl#	Ctrl.*
1	Mod Freq.	0.0-40.28Hz	(0-152)	# 6	○
2	Mod Depth	0-100%	(0-100)		○
3	Mod Dly L	0.0-25.0ms	(0-250)		
4	FB Gain L	-99+99%	(0-198)		○
5	Phase L	0-300∞	(0-7)	#15	○
6	Mod Dly R	0.0-25.0ms	(0-250)		
7	FB Gain R	-99+99%	(0-198)		○
8	Phase R	0-300∞	(0-7)	#15	○
W1	Wet:Dry Bal	0-100%	(0-100)		○

Type 05: Flanger B

Prm#	Name	Range	(Data)	Tbl#	Ctrl.*
1	Mod Freq.	0.0-40.28Hz	(0-152)	# 6	○
2	Mod Depth	0-100%	(0-100)		○
3	Mod Dly	0.0-50.0ms	(0-500)		
4	FB Gain	-99+99%	(0-198)		○
5	Low Gain	-12+12dB	(0-24)		○
6	Mid Freq.	315Hz-10.0KHz	(5-21)	# 9	○
7	Mid Gain	-12+12dB	(0-24)		○
8	High Gain	-12+12dB	(0-24)		○
W1	Wet:Dry Bal	0-100%	(0-100)		○

Type 06: Symphonic

Prm#	Name	Range	(Data)	Tbl#	Ctrl.*
1	Mod Freq.	0.0-40.28Hz	(0-152)	# 6	○
2	Mod Depth	0-100%	(0-100)		○
3	Mod Dly	0.0-50.0ms	(0-500)		
4	Low Gain	-12+12dB	(0-24)		○
5	Mid Freq.	315Hz-10.0KHz	(5-21)	# 9	○
6	Mid Gain	-12+12dB	(0-24)		○
7	High Gain	-12+12dB	(0-24)		○
8					
W1	Wet:Dry Bal	0-100%	(0-100)		○

Type 07: Phaser

Prm#	Name	Range	(Data)	Tbl#	Ctrl.*
1	Mod Freq.	0.0-40.28Hz	(0-152)	# 6	○
2	Mod Depth	0-100%	(0-100)		○
3	Phase Shft	0-100	(0-100)		○
4	FB Gain	-99+99%	(0-198)		○
5	Stage No.	4,6,8	(0-2)		○
6	Diffusion	Stereo/Mono	(0-1)		○
7	Low Gain	-12+12dB	(0-24)		○
8	High Gain	-12+12dB	(0-24)		○
W1	Wet:Dry Bal	0-100%	(0-100)		○

Type 08: Auto PAN

Prm#	Name	Range	(Data)	Tbl#	Ctrl.*
1	Speed	0.0-40.28Hz	(0-152)	# 6	○
2	L/R Depth	0-100%	(0-100)		○
3	F/R Depth	0-100%	(0-100)		○
4	Direction	L→R, L←R, L◀▶R, L◀▶▶R LTurn, RTurn	(0-5)		
5	Low Gain	-12+12dB	(0-24)		○
6	Mid Freq.	315Hz-10.0KHz	(5-21)	# 9	○
7	Mid Gain	-12+12dB	(0-24)		○
8	High Gain	-12+12dB	(0-24)		○
W1	Wet:Dry Bal	0-100%	(0-100)		○

Type 09: Rotary Sp.

Prm#	Name	Range	(Data)	Tbl#	Ctrl.*
1	Speed	0.0-40.28Hz	(0-152)	# 6	○
2	Depth	0-100%	(0-100)		○
3	Low Freq.	32Hz-2.0KHz	(0-18)	# 7	○
4	Low Gain	-12+12dB	(0-24)		○
5	Mid Freq.	315Hz-10.0KHz	(5-21)	# 9	○
6	Mid Gain	-12+12dB	(0-24)		○
7	High Freq.	500Hz-16.0KHz	(0-15)	# 8	○
8	High Gain	-12+12dB	(0-24)		○
W1	Wet:Dry Bal	0-100%	(0-100)		○

Type 10: Pit Chng 1

Prm#	Name	Range	(Data)	Tbl#	Ctrl.*
1	Pitch	-24+24	(0-48)		
2	Fine 1	-50+50	(0-100)		
3	Delay 1	0.1-175.0ms	(0-1749)		
4	Out Level 1	-100+100	(0-200)		○
5	Fine 2	-50+50	(0-100)		
6	Delay 2	0.1-350.0ms	(0-3499)		
7	FB Gain 2	-99+99%	(0-198)		○
8	Out Level 2	-100+100	(0-200)		○
W1	Wet Level	0-100	(0-100)		○
D1	Dry Level	0-100	(0-100)		○

Type 11: Pit Chng 2

Prm#	Name	Range	(Data)	Tbl#	Ctrl.*
1	Pitch	-24+24	(0-48)		
2	Fine L	-50+50	(0-100)		
3	Delay L	0.1-260.0ms	(0-2599)		
4	FB Gain L	-99+99%	(0-198)		○
5	Fine R	-50+50	(0-100)		
6	Delay R	0.1-260.0ms	(0-2599)		
7	FB Gain R	-99+99%	(0-198)		○
8					
W1	Wet:Dry Bal	0-100%	(0-100)		○

Type 12: Aural Exc

Prm#	Name	Range	(Data)	Tbl#	Ctrl.*
1	HPF Cutoff	500Hz-16.0kHz	(0-15)	#12	
2	Drive	0-100%	(0-100)		○
3	Mix Level	0-100%	(0-100)		○
4	Dry Input	Stereo, Mono	(0-1)		
5					
6					
7					
8					
	—				
	—				

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Type 13: Distortion

Prm#	Name	Range	(Data)	Tbl#	Ctrl.*
1	Drive	0-100%	(0-100)		○
2	Mid Freq.	315Hz-10.0kHz	(5-21)	# 9	○
3	Mid Gain	-12+12dB	(0-24)		○
4	Mid Q	0.1-5.0	(0-49)		○
5	High Freq.	500Hz-16.0kHz	(0-15)	# 8	○
6	High Gain	-12+12dB	(0-24)		○
7	Amp.Type	off, stack, combo, tube	(0-3)		
8					
W1	Dist Level	0-100	(0-100)		○
D1	Dry Level	0-100	(0-100)		○

Type 14: Dist + Comp

Prm#	Name	Range	(Data)	Tbl#	Ctrl.*
1	Attack	1-40ms	(0-19)	# 1	
2	Release	10-680ms	(0-15)	# 2	
3	Threshold	-48-6dB	(0-42)		
4	Ratio	1.0-20.0	(0-7)	# 3	
5	Dist Drive	0-100%	(0-100)		○
6	Mid Freq.	315Hz-10.0kHz	(5-21)	# 9	○
7	Mid Gain	-12+12dB	(0-24)		○
8	High Gain	-12+12dB	(0-24)		○
W1	Dist Level	0-100	(0-100)		○
D1	Dry Level	0-100	(0-100)		○

Type 15: Dist + Wah

Prm#	Name	Range	(Data)	Tbl#	Ctrl.*
1	Sensitive	0-100%	(0-100)		○
2	Freq Offset	20Hz-14.0kHz	(0-39)	#13	○
3	Q	1.0-10.0	(0-90)	#14	○
W1	Wah Mix Lvl	0-100%	(0-100)		○
4	Dist Drive	0-100%	(0-100)		○
5	Mid Freq.	315Hz-10.0kHz	(5-21)	# 9	○
6	Mid Gain	-12+12dB	(0-24)		○
7	High Freq.	500Hz-16.0kHz	(0-15)	# 8	○
8	High Gain	-12+12dB	(0-24)		○
W2	Dist Level	0-100	(0-100)		○
D2	Dry Level	0-100	(0-100)		○

Pedal Wah can be applied by setting "Sensitive" to 0 and controlling "Freq Offset" value.
Touch Wah can be applied by setting "Sensitive" value other than 0.

Type 16: Dist + RotaSp

Prm#	Name	Range	(Data)	Tbl#	Ctrl.*
1	Dist Drive	0-100%	(0-100)		○
2	Mid Freq.	315Hz-10.0kHz	(5-21)	# 9	○
3	Mid Gain	-12+12dB	(0-24)		○
4	Mid Q	0.1-5.0	(0-49)		○
5	High Freq.	500Hz-16.0kHz	(0-15)	# 8	○
6	High Gain	-12+12dB	(0-24)		○
W1	Dist Level	0-100	(0-100)		○
D1	Dry Level	0-100	(0-100)		○
7	R-Sp Speed	0.0-40.28Hz	(0-152)	# 6	○
8	R-Sp Depth	0-100%	(0-100)		○
W2	R-Sp MixLvl	0-100%	(0-100)		○

Type 17: Delay L, R

Prm#	Name	Range	(Data)	Tbl#	Ctrl.*
1	Lch Delay	0.1-600.0ms	(0-5999)		
2	Rch Delay	0.1-600.0ms	(0-5999)		
3	FB1 Delay	0.1-600.0ms	(0-5999)		
4	FB1 Gain	-99+99%	(0-198)		○
5	FB2 Delay	0.1-600.0ms	(0-5999)		
6	FB2 Gain	-99+99%	(0-198)		○
7	HPF Cutoff	Thru-8000Hz	(0-38)	#11	○
8	LPF Cutoff	1.0k-Thru	(0-25)	#10	○
W1	Wet Level	0-100	(0-100)		○
D1	Dry Level	0-100	(0-100)		○

Type 18: Delay L, C, R

Prm#	Name	Range	(Data)	Tbl#	Ctrl.*
1	Lch Delay	0.1-600.0ms	(0-5999)		
2	Rch Delay	0.1-600.0ms	(0-5999)		
3	Cntr Delay	0.1-600.0ms	(0-5999)		
4	Cntr Level	0-100	(0-100)		○
5	FB Delay	0.1-600.0ms	(0-5999)		
6	FB Gain	-99+99%	(0-198)		○
7	FB High	0.1-1.5	(0-14)		○
8	LPF Cutoff	1.0k-Thru	(0-25)	#10	○
W1	Wet Level	0-100	(0-100)		○
D1	Dry Level	0-100	(0-100)		○

Type 19: Stereo Echo

Prm#	Name	Range	(Data)	Tbl#	Ctrl.*
1	Lch Delay	0.1-300.0ms	(0-2999)		
2	Lch FB Gain	-99-+99%	(0-198)		○
3	Lch FB High	0.1-1.5	(0-14)		○
4	Rch Delay	0.1-300.0ms	(0-2999)		
5	Rch FB Gain	-99-+99%	(0-198)		○
6	Rch FB High	0.1-1.5	(0-14)		○
7	HPF Cutoff	Thru-8000Hz	(0-38)	#11	○
8	LPF Cutoff	1.0k-Thru	(0-25)	#10	○
W1	Wet Level	0-100	(0-100)		○
D1	Dry Level	0-100	(0-100)		○

Type 20: Cross Delay (stereo input)

Prm#	Name	Range	(Data)	Tbl#	Ctrl.*
1	Lch In Lvl	0-100	(0-100)		○
2	L►R Delay	0.1-300.0ms	(0-2999)		
3	L►R FB Gain	-99-+99%	(0-198)		○
4	Rch In Lvl	0-100	(0-100)		○
5	R►L Delay	0.1-300.0ms	(0-2999)		
6	R►L FB Gain	-99-+99%	(0-198)		○
7	FB High	0.1-1.5	(0-14)		○
8	LPF Cutoff	1.0k-Thru	(0-25)	#10	○
W1	Wet Level	0-100	(0-100)		○
D1	Dry Level	0-100	(0-100)		○

Type 21: Early Ref. 1

Type 22: Early Ref. 2

Prm#	Name	Range	(Data)	Tbl#	Ctrl.*
1	Type	S-Hall, L-Hall, Random, Revers, Plate , Spring	(0-5)		
2	Room Size	0.1-20.0	(0-199)		
3	Liveness	0-10	(0-10)		
4	Diffusion	0-10	(0-10)		
5	Init Delay	0.1-180.0ms	(0-1799)		
6	FB Delay	0.1-300.0ms	(0-2999)		
7	FB Gain	-99-+99%	(0-198)		○
8	LPF Cutoff	1.0k-Thru	(0-25)	#10	○
W1	Wet Level	0-100	(0-100)		○
D1	Dry Level	0-100	(0-100)		○

Type 23: Gate Reverb

Type 24: Reverse Gate

Prm#	Name	Range	(Data)	Tbl#	Ctrl.*
1	Type	A, B	(0-1)		
2	Room Size	0.1-20.0	(0-199)		
3	Liveness	0-10	(0-10)		
4	Diffusion	0-10	(0-10)		
5	Init Delay	0.1-180.0ms	(0-1799)		
6	FB Delay	0.1-300.0ms	(0-2999)		
7	FB Gain	-99-+99%	(0-198)		○
8	LPF Cutoff	1.0k-Thru	(0-25)	#10	○
W1	Wet Level	0-100	(0-100)		○
D1	Dry Level	0-100	(0-100)		○

Type 25: Reverb Hall

Type 26: Reverb Room

Type 27: Reverb Stage

Type 28: Reverb Plate

Prm#	Name	Range	(Data)	Tbl#	Ctrl.*
1	Reverb Time	0.3-30.0s	(0-69)	# 4	○
2	High	0.1-1.5	(0-14)		○
3	Diffusion	0-10	(0-10)		
4	Init Delay	0.1-100.0ms	(0-999)		
5	Rev. Delay	0.1-100.0ms	(0-999)		
6	ER/Rev Bal	0-100%	(0-100)		○
7	HPF Cutoff	Thru-8000Hz	(0-38)	#11	○
8	LPF Cutoff	1.0k-Thru	(0-25)	#10	○
W1	Wet Level	0-100	(0-100)		○
D1	Dry Level	0-100	(0-100)		○

Type 29: Dist → Chorus

Prm#	Name	Range	(Data)	Tbl#	Ctrl.*
1	Drive	0-100%	(0-100)		○
2	Mid Freq.	315Hz-10.0KHz	(5-21)	# 9	○
3	Mid Gain	-12-+12dB	(0-24)		○
4	High Gain	-12-+12dB	(0-24)		○
W1	Dist Level	0-100	(0-100)		○
D1	Dry Level	0-100	(0-100)		○
5	Mod Freq.	0.0-40.28Hz	(0-152)	# 6	○
6	PM Depth	0-100%	(0-100)		○
7	AM Type	off-Rndm Hard	(0-15)	#16	
8	Mod Dly	0.0-50.0ms	(0-500)		
W2	Cho: Dry Bal	0-100%	(0-100)		○

Type 30: Dist → Flange

Prm#	Name	Range	(Data)	Tbl#	Ctrl.*
1	Drive	0-100%	(0-100)		○
2	Mid Freq.	315Hz-10.0KHz	(5-21)	# 9	○
3	Mid Gain	-12+12dB	(0-24)		○
4	High Gain	-12+12dB	(0-24)		○
W1	Dist Level	0-100	(0-100)		○
D1	Dry Level	0-100	(0-100)		○
5	Mod Freq.	0.0-40.28Hz	(0-152)	# 6	○
6	Mod Depth	0-100%	(0-100)		○
7	Mod Dly	0.0-50.0ms	(0-500)		
8	FB Gain	-99+99%	(0-198)		○
W2	Flg:Dry Bal	0-100%	(0-100)		○

Type 31: Dist → Sympho

Prm#	Name	Range	(Data)	Tbl#	Ctrl.*
1	Drive	0-100%	(0-100)		○
2	Mid Freq.	315Hz-10.0KHz	(5-21)	# 9	○
3	Mid Gain	-12+12dB	(0-24)		○
4	High Gain	-12+12dB	(0-24)		○
W1	Dist Level	0-100	(0-100)		○
D1	Dry Level	0-100	(0-100)		○
5	Mod Freq.	0.0-40.28Hz	(0-152)	# 6	○
6	Mod Depth	0-100%	(0-100)		○
7	Mod Dly	0.0-50.0ms	(0-500)		
8					
W2	Sym:Dry Bal	0-100%	(0-100)		○

Type 32: Dist → Phaser

Prm#	Name	Range	(Data)	Tbl#	Ctrl.*
1	Drive	0-100%	(0-100)		○
2	Mid Freq.	315Hz-10.0KHz	(5-21)	# 9	○
3	Mid Gain	-12+12dB	(0-24)		○
4	High Gain	-12+12dB	(0-24)		○
W1	Dist Level	0-100	(0-100)		○
D1	Dry Level	0-100	(0-100)		○
5	Mod Freq.	0.0-40.28Hz	(0-152)	# 6	○
6	Mod Depth	0-100%	(0-100)		○
7	Phase Shft	0-100	(0-100)		○
8	FB Gain	-99+99%	(0-198)		○
W2	Pha:Dry Bal	0-100%	(0-100)		○

Type 33: Dist → PtChng

Prm#	Name	Range	(Data)	Tbl#	Ctrl.*
1	Drive	0-100%	(0-100)		○
2	Mid Freq.	315Hz-10.0KHz	(5-21)	# 9	○
3	Mid Gain	-12+12dB	(0-24)		○
4	High Gain	-12+12dB	(0-24)		○
W1	Dist Level	0-100	(0-100)		○
D1	Dry Level	0-100	(0-100)		○
5	Pitch	-24+24	(0-48)		
6	Init Delay	0.1-500.0ms	(0-4999)		
7	Fine L	-50+50	(0-100)		
8	Fine R	-50+50	(0-100)		
W2	Pit:Dry Bal	0-100%	(0-100)		○

Type 34: Dist → Delay

Prm#	Name	Range	(Data)	Tbl#	Ctrl.*
1	Drive	0-100%	(0-100)		○
2	Mid Freq.	315Hz-10.0KHz	(5-21)	# 9	○
3	Mid Gain	-12+12dB	(0-24)		○
4	High Gain	-12+12dB	(0-24)		○
W1	Dist Level	0-100	(0-100)		○
D1	Dry Level	0-100	(0-100)		○
5	Lch Delay	0.1-600.0ms	(0-5999)		
6	Rch Delay	0.1-600.0ms	(0-5999)		
7	FB Delay	0.1-600.0ms	(0-5999)		
8	FB Gain	-99+99%	(0-198)		○
W2	Dly Level	0-100	(0-100)		○
D2	Dry Level	0-100	(0-100)		○

Type 35: Dist → Reverb

Prm#	Name	Range	(Data)	Tbl#	Ctrl.*
1	Drive	0-100%	(0-100)		○
2	Mid Freq.	315Hz-10.0KHz	(5-21)	# 9	○
3	Mid Gain	-12+12dB	(0-24)		○
4	High Gain	-12+12dB	(0-24)		○
W1	Dist Level	0-100	(0-100)		○
D1	Dry Level	0-100	(0-100)		○
5	Reverb Time	0.3-30.0s	(0-69)	# 4	○
6	High	0.1-1.5	(0-14)		○
7	Init Delay	0.1-200.0ms	(0-1999)		
8	LPF Cutoff	1.0k-Thru	(0-25)	#10	○
W2	Rev Level	0-100	(0-100)		○
D2	Dry Level	0-100	(0-100)		○

System Effect Type

Sys EF 01: Reverb Module	
01. Rev Hall 1	
02. Rev Hall 2	
03. Rev Room 1	
04. Rev Room 2	
05. Rev Stage 1	
06. Rev Stage 2	
07. Rev Plate	
08. Rev EchoRoom	
09. Rev Tunnel	
10. Rev Canyon	
11. Rev Basement	
12. Delay L, R	
13. Delay L, C, R	
14. Echo	
15. Cross Delay	

Sys EF 02: Chorus Module	
01. Chorus	
02. Flanger	
03. Symphonic	
04. Phaser	
05. Auto PAN	
06. Rotary Sp.	
07. Pit Chng	
08. Aural Exc	
09. Wah	

Sys EF 03: Dly/Rev Module	
01. Delay L, R	
02. Delay L, C, R	
03. Echo	
04. Cross Delay	
05. Reverb Hall	
06. Reverb Room	
07. Reverb Stage	
08. Reverb Plate	
09. Early Ref.1	
10. Early Ref.2	
11. Gate Reverb	
12. Reverse Gate	
13. EQ → Delay	
14. EQ → Reverb	
15. Dist → Delay	
16. Dist → Reverb	

Sys EF 01: Reverb Module

- Type 01: Rev Hall 1** **Type 05: Rev Stage 1**
Type 02: Rev Hall 2 **Type 06: Rev Stage 2**
Type 03: Rev Room 1 **Type 07: Rev Plate**
Type 04: Rev Room 2

Prm#	Name	Range	(Data)	Tbl#	Ctrl.*
1	Reverb Time	0.3-30.0s	(0-69)	# 4	
2	High	0.1-1.5	(0-14)		
3	Diffusion	0-10	(0-10)		
4	Init Delay	0.1-200.0ms	(0-1999)		
5	Rev. Delay	0.1-200.0ms	(0-1999)		
6	Density	0-4	(0-4)		
7	ER/Rev Bal	0-100%	(0-100)		
8	LPF Cutoff	1.0k-Thru	(0-25)	#10	

- Type 08: Rev EchoRoom** **Type 10: Rev Canyon**
Type 09: Rev Tunnel **Type 11: Rev Basement**

Prm#	Name	Range	(Data)	Tbl#	Ctrl.*
1	Reverb Time	0.3-30.0s	(0-69)	# 4	
2	High	0.1-1.5	(0-14)		
3	Diffusion	0-10	(0-10)		
4	Width	0.5 - 30.2m	(0-104)	# 5	
5	Height	0.5 - 30.2m	(0-104)	# 5	
6	Depth	0.5 - 30.2m	(0-104)	# 5	
7	Wall Vary	0 - 30	(0-30)		
8	LPF Cutoff	1.0k-Thru	(0-25)	#10	

Type 12: Delay L, R

Prm#	Name	Range	(Data)	Tbl#	Ctrl.*
1	Lch Delay	0.1-1360.0ms	(0-13599)		
2	Rch Delay	0.1-1360.0ms	(0-13599)		
3	FB1 Delay	0.1-1360.0ms	(0-13599)		
4	FB1 Gain	-99+99%	(0-198)		
5	FB2 Delay	0.1-1360.0ms	(0-13599)		
6	FB2 Gain	-99+99%	(0-198)		
7	HPF Cutoff	Thru-8000Hz	(0-38)	#11	
8	LPF Cutoff	1.0k-Thru	(0-25)	#10	

Type 13: Delay L, C, R

Prm#	Name	Range	(Data)	Tbl#	Ctrl.*
1	Lch Delay	0.1-1360.0ms	(0-13599)		
2	Rch Delay	0.1-1360.0ms	(0-13599)		
3	Cntr Delay	0.1-1360.0ms	(0-13599)		
4	Cntr Level	0-100	(0-100)		
5	FB Delay	0.1-1360.0ms	(0-13599)		
6	FB Gain	-99+99%	(0-198)		
7	FB High	0.1-1.5	(0-14)		
8	LPF Cutoff	1.0k-Thru	(0-25)	#10	

Type 14: Echo

Prm#	Name	Range	(Data)	Tbl#	Ctrl.*
1	Lch Delay	0.1-680.0ms	(0-6799)		
2	Lch FB Gain	-99+99%	(0-198)		
3	Lch FB High	0.1-1.5	(0-14)		
4	Rch Delay	0.1-680.0ms	(0-6799)		
5	Rch FB Gain	-99+99%	(0-198)		
6	Rch FB High	0.1-1.5	(0-14)		
7	HPF Cutoff	Thru-8000Hz	(0-38)	#11	
8	LPF Cutoff	1.0k-Thru	(0-25)	#10	

Type 15: Cross Delay

Prm#	Name	Range	(Data)	Tbl#	Ctrl.*
1	Lch In Lvl	0-100	(0-100)		
2	L►R Delay	0.1-680.0ms	(0-6799)		
3	L►R FB Gain	-99+99%	(0-198)		
4	Rch In Lvl	0-100	(0-100)		
5	R►L Delay	0.1-680.0ms	(0-6799)		
6	R►L FB Gain	-99+99%	(0-198)		
7	FB High	0.1-1.5	(0-14)		
8	LPF Cutoff	1.0k-Thru	(0-25)	#10	

Sys EF 02: Chorus Module

Type 01: Chorus

Prm#	Name	Range	(Data)	Tbl#	Ctrl.*
1	Mod Freq.	0.0-40.28Hz	(0-152)	# 6	
2	PM Depth	0-100%	(0-100)		
3	AM Type	off-Rndm Hard	(0-15)	#16	
4	Mod Dly	0.0-35.0ms	(0-350)		
5	Low Gain	-12+12dB	(0-24)		
6	Mid Freq.	315Hz-10.0KHz	(5-21)	# 9	
7	Mid Gain	-12+12dB	(0-24)		
8	High Gain	-12+12dB	(0-24)		

Type 02: Flanger

Prm#	Name	Range	(Data)	Tbl#	Ctrl.*
1	Mod Freq.	0.0-40.28Hz	(0-152)	# 6	
2	Mod Depth	0-100%	(0-100)		
3	Mod Dly	0.0-15.5ms	(0-155)		
4	FB Gain	-99+99%	(0-198)		
5	Low Gain	-12+12dB	(0-24)		
6	Mid Freq.	315Hz-10.0KHz	(5-21)	# 9	
7	Mid Gain	-12+12dB	(0-24)		
8	High Gain	-12+12dB	(0-24)		

Type 03: Symphonic

Prm#	Name	Range	(Data)	Tbl#	Ctrl.*
1	Mod Freq.	0.0-40.28Hz	(0-152)	# 6	
2	Mod Depth	0-100%	(0-100)		
3	Mod Dly	0.0-45.0ms	(0-450)		
4	Low Gain	-12+12dB	(0-24)		
5	Mid Freq.	315Hz-10.0KHz	(5-21)	# 9	
6	Mid Gain	-12+12dB	(0-24)		
7	High Gain	-12+12dB	(0-24)		
8					

Type 04: Phaser

Prm#	Name	Range	(Data)	Tbl#	Ctrl.*
1	Mod Freq.	0.0-40.28Hz	(0-152)	# 6	
2	Mod Depth	0-100%	(0-100)		
3	Phase Sht	0-100	(0-100)		
4	FB Gain	-99+99%	(0-198)		
5	Stage No.	4,6,8	(0-2)		
6	Diffusion	Stereo/Mono	(0-1)		
7	Low Gain	-12+12dB	(0-24)		
8	High Gain	-12+12dB	(0-24)		

Type 05: Auto PAN

Prm#	Name	Range	(Data)	Tbl#	Ctrl.*
1	Speed	0.0-40.28Hz	(0-152)	# 6	
2	L/R Depth	0-100%	(0-100)		
3	F/R Depth	0-100%	(0-100)		
4	Direction	L→R, L←R, L◀▶R LTurn, RTurn	(0-4)		
5	Low Gain	-12+12dB	(0-24)		
6	Mid Freq.	315Hz-10.0KHz	(5-21)	# 9	
7	Mid Gain	-12+12dB	(0-24)		
8	High Gain	-12+12dB	(0-24)		

Type 06: Rotary Sp.

Prm#	Name	Range	(Data)	Tbl#	Ctrl.*
1	Speed	0.0-40.28Hz	(0-152)	# 6	
2	Depth	0-100%	(0-100)		
3	Low Freq.	32Hz-2.0KHz	(0-18)	# 7	
4	Low Gain	-12+12dB	(0-24)		
5	Mid Freq.	315Hz-10.0KHz	(5-21)	# 9	
6	Mid Gain	-12+12dB	(0-24)		
7	High Freq.	500Hz-16.0KHz	(0-15)	# 8	
8	High Gain	-12+12dB	(0-24)		

Type 07: Pit Chng

Prm#	Name	Range	(Data)	Tbl#	Ctrl.*
1	Pitch	-24+24	(0-48)		
2	Fine L	-50+50	(0-100)		
3	Fine R	-50+50	(0-100)		
4					
5					
6					
7					
8					

Type 08: Aural Exc

Prm#	Name	Range	(Data)	Tbl#	Ctrl.*
1	HPF Cutoff	500Hz-16.0kHz	(0-15)	#12	
2	Drive	0-100%	(0-100)		
3	Mix Level	0-100%	(0-100)		
4					
5					
6					
7					
8					

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Type 09: Wah

Prm#	Name	Range	(Data)	Tbl#	Ctrl.*
1	Sensitive	0-100%	(0-100)		
2	Freq Offset	20Hz-14.0kHz	(0-39)	#13	
3	Q	1.0-10.0	(0-90)	#14	
4					
5					
6					
7					
8					

Sys EF 03: Dly/Rev Module

Type 01: Delay L, R

Prm#	Name	Range	(Data)	Tbl#	Ctrl.*
1	Lch Delay	0.1-660.0ms	(0-6599)		
2	Rch Delay	0.1-660.0ms	(0-6599)		
3	FB1 Delay	0.1-660.0ms	(0-6599)		
4	FB1 Gain	-99-+99%	(0-198)		
5	FB2 Delay	0.1-660.0ms	(0-6599)		
6	FB2 Gain	-99-+99%	(0-198)		
7	HPF Cutoff	Thru-8000Hz	(0-38)	#11	
8	LPF Cutoff	1.0k-Thru	(0-25)	#10	

Type 02: Delay L, C, R

Prm#	Name	Range	(Data)	Tbl#	Ctrl.*
1	Lch Delay	0.1-660.0ms	(0-6599)		
2	Rch Delay	0.1-660.0ms	(0-6599)		
3	Cntr Delay	0.1-660.0ms	(0-6599)		
4	Cntr Level	0-100	(0-100)		
5	FB Delay	0.1-660.0ms	(0-6599)		
6	FB Gain	-99-+99%	(0-198)		
7	FB High	0.1-1.5	(0-14)		
8	LPF Cutoff	1.0k-Thru	(0-25)	#10	

Type 03: Echo

Prm#	Name	Range	(Data)	Tbl#	Ctrl.*
1	Lch Delay	0.1-330.0ms	(0-3299)		
2	Lch FB Gain	-99-+99%	(0-198)		
3	Lch FB High	0.1-1.5	(0-14)		
4	Rch Delay	0.1-330.0ms	(0-3299)		
5	Rch FB Gain	-99-+99%	(0-198)		
6	Rch FB High	0.1-1.5	(0-14)		
7	HPF Cutoff	Thru-8000Hz	(0-38)	#11	
8	LPF Cutoff	1.0k-Thru	(0-25)	#10	

Type 04: Cross Delay

Prm#	Name	Range	(Data)	Tbl#	Ctrl.*
1	Lch In Lvl	0-100	(0-100)		
2	L►R Delay	0.1-330.0ms	(0-3299)		
3	L►R FB Gain	-99-+99%	(0-198)		
4	Rch In Lvl	0-100	(0-100)		
5	R►L Delay	0.1-330.0ms	(0-3299)		
6	R►L FB Gain	-99-+99%	(0-198)		
7	FB High	0.1-1.5	(0-14)		
8	LPF Cutoff	1.0k-Thru	(0-25)	#10	

Type 05: Reverb Hall

Prm#	Name	Range	(Data)	Tbl#	Ctrl.*
1	Reverb Time	0.3-30.0s	(0-69)	# 4	
2	High	0.1-1.5	(0-14)		
3	Diffusion	0-10	(0-10)		
4	Density	0-4	(0-4)		
5	ER/Rev Bal	0-100%	(0-100)		
6	Low Gain	-12-+12dB	(0-24)		
7	High Gain	-12-+12dB	(0-24)		
8	LPF Cutoff	1.0k-Thru	(0-25)	#10	

Type 06: Reverb Room

Prm#	Name	Range	(Data)	Tbl#	Ctrl.*
1	Reverb Time	0.3-30.0s	(0-69)	# 4	
2	High	0.1-1.5	(0-14)		
3	Diffusion	0-10	(0-10)		
4	Init Delay	0.1-200.0ms	(0-1999)		
5	Rev. Delay	0.1-120.0ms	(0-1199)		
6	Density	0-4	(0-4)		
7	ER/Rev Bal	0-100%	(0-100)		
8	LPF Cutoff	1.0k-Thru	(0-25)	#10	

Type 07: Reverb Stage

Prm#	Name	Range	(Data)	Tbl#	Ctrl.*
1	Reverb Time	0.3-30.0s	(0-69)	# 4	
2	High	0.1-1.5	(0-14)		
3	Diffusion	0-10	(0-10)		
4	Init Delay	0.1-48.0ms	(0-479)		
5	Rev. Delay	0.1-23.0ms	(0-229)		
6	Density	0-4	(0-4)		
7	ER/Rev Bal	0-100%	(0-100)		
8	LPF Cutoff	1.0k-Thru	(0-25)	#10	

Type 08: Reverb Plate

Prm#	Name	Range	(Data)	Tbl#	Ctrl.*
1	Reverb Time	0.3-30.0s	(0-69)	# 4	
2	High	0.1-1.5	(0-14)		
3	Diffusion	0-10	(0-10)		
4	Init Delay	0.1-200.0ms	(0-1999)		
5	Rev. Delay	0.1-200.0ms	(0-1999)		
6	Density	0-4	(0-4)		
7	ER/Rev Bal	0-100%	(0-100)		
8	LPF Cutoff	1.0k-Thru	(0-25)	#10	

Type 09: Early Ref. 1

Type 10: Early Ref. 2

Prm#	Name	Range	(Data)	Tbl#	Ctrl.*
1	Type	S-Hall, L-Hall, Random, Revers, Plate , Spring	(0-5)		
2	Room Size	0.1-20.0	(0-199)		
3	Liveness	0-10	(0-10)		
4	Diffusion	0-10	(0-10)		
5	Init Delay	0.1-200.0ms	(0-1999)		
6	FB Delay	0.1-350.0ms	(0-3499)		
7	FB Gain	-99-+99%	(0-198)		
8	LPF Cutoff	1.0k-Thru	(0-25)	#10	

Type 11: Gate Reverb

Type 12: Reverse Gate

Prm#	Name	Range	(Data)	Tbl#	Ctrl.*
1	Type	A, B	(0-1)		
2	Room Size	0.1-20.0	(0-199)		
3	Liveness	0-10	(0-10)		
4	Diffusion	0-10	(0-10)		
5	Init Delay	0.1-200.0ms	(0-1999)		
6	FB Delay	0.1-350.0ms	(0-3499)		
7	FB Gain	-99-+99%	(0-198)		
8	LPF Cutoff	1.0k-Thru	(0-25)	#10	

Type 13: EQ → Delay

Prm#	Name	Range	(Data)	Tbl#	Ctrl.*
1	Low Gain	-12-+12dB	(0-24)		
2	Mid Freq.	315Hz-10.0KHz	(5-21)	# 9	
3	Mid Gain	-12-+12dB	(0-24)		
4	High Gain	-12-+12dB	(0-24)		
5	Lch Delay	0.1-660.0ms	(0-6599)		
6	Rch Delay	0.1-660.0ms	(0-6599)		
7	FB Delay	0.1-660.0ms	(0-6599)		
8	FB Gain	-99-+99%	(0-198)		

Type 14: EQ → Reverb

Prm#	Name	Range	(Data)	Tbl#	Ctrl.*
1	Low Gain	-12-+12dB	(0-24)		
2	Mid Freq.	315Hz-10.0KHz	(5-21)	# 9	
3	Mid Gain	-12-+12dB	(0-24)		
4	High Gain	-12-+12dB	(0-24)		
5	Reverb Time	0.3-30.0s	(0-69)	# 4	
6	High	0.1-1.5	(0-14)		
7	ER/Rev Bal	0-100%	(0-100)		
8	LPF Cutoff	1.0k-Thru	(0-25)	#10	

Type 15: Dist → Delay

Prm#	Name	Range	(Data)	Tbl#	Ctrl.*
1	Dist Drive	0-100%	(0-100)		
2	Mid Freq.	315Hz-10.0KHz	(5-21)	# 9	
3	Mid Gain	-12-+12dB	(0-24)		
4	High Gain	-12-+12dB	(0-24)		
5	Lch Delay	0.1-660.0ms	(0-6599)		
6	Rch Delay	0.1-660.0ms	(0-6599)		
7	FB Gain	-99-+99%	(0-198)		
8	Dly Mix Lvl	0-100%	(0-100)		

Type 16: Dist → Reverb

Prm#	Name	Range	(Data)	Tbl#	Ctrl.*
1	Dist Drive	0-100%	(0-100)		
2	Mid Freq.	315Hz-10.0KHz	(5-21)	# 9	
3	Mid Gain	-12-+12dB	(0-24)		
4	High Gain	-12-+12dB	(0-24)		
5	Reverb Time	0.3-30.0s	(0-69)	# 4	
6	High	0.1-1.4	(0-15)		
7	LPF Cutoff	1.0k-Thru	(0-25)	#10	
8	Rev Mix Lvl	0-100%	(0-100)		

DATA VALUE TABLE

Table#1
Compressor Attack Time

Data	Value (ms)
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

Table#2
Compressor Release Time

Data	Value (ms)
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

Table#3
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#4
Reverb Time

Data	Value (s)
0	0.3
1	0.4
2	0.5
3	0.6
4	0.7
5	0.8
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

Data	Value (s)
54	8.5
55	9.0
56	9.5
57	10
58	11
59	12
60	13
61	14
62	15
63	16
64	17
65	18
66	19
67	20
68	25
69	30

Table#5
Reverb Width; Depth; Height

Data	Value (m)
0	0.5
1	0.8
2	1.0
3	1.3
4	1.5
5	1.8
6	2.0
7	2.3
8	2.6
9	2.8
10	3.1
11	3.3
12	3.6
13	3.9
14	4.1
15	4.4
16	4.6
17	4.9
18	5.2
19	5.4
20	5.7
21	5.9
22	6.2
23	6.5
24	6.7
25	7.0
26	7.2
27	7.5
28	7.8
29	8.0
30	8.3
31	8.6
32	8.8
33	9.1
34	9.4
35	9.6
36	9.9
37	10.2
38	10.4
39	10.7
40	11.0
41	11.2
42	11.5
43	11.8
44	12.1
45	12.3
46	12.6
47	12.9
48	13.1
49	13.4
50	13.7
51	14.0
52	14.2
53	14.5

Data	Value (s)
54	14.8
55	15.1
56	15.4
57	15.6
58	15.9
59	16.2
60	16.5
61	16.8
62	17.1
63	17.3
64	17.6
65	17.9
66	18.2
67	18.5
68	18.8
69	19.1
70	19.4
71	19.7
72	20.0
73	20.2
74	20.5
75	20.8
76	21.1
77	21.4
78	21.7
79	22.0
80	22.4
81	22.7
82	23.0
83	23.3
84	23.6
85	23.9
86	24.2
87	24.5
88	24.9
89	25.2
90	25.5
91	25.8
92	26.1
93	26.5
94	26.8
95	27.1
96	27.5
97	27.8
98	28.1
99	28.5
100	28.8
101	29.2
102	29.5
103	29.9
104	30.2

Table#6
LFO Frequency

Data	Value (Hz)
0	0.00
1	0.09
2	0.18
3	0.27
4	0.37
5	0.46
6	0.55
7	0.64
8	0.73
9	0.82
10	0.92
11	1.01
12	1.10
13	1.19
14	1.28
15	1.37
16	1.46
17	1.56
18	1.65
19	1.74
20	1.83
21	1.92
22	2.01
23	2.11
24	2.20
25	2.29
26	2.38
27	2.47
28	2.56
29	2.66
30	2.75
31	2.84
32	2.93
33	3.02
34	3.11
35	3.20
36	3.30
37	3.39
38	3.48
39	3.57
40	3.66
41	3.75
42	3.85
43	3.94
44	4.03
45	4.12
46	4.21
47	4.30
48	4.39
49	4.49
50	4.58
51	4.67
52	4.76
53	4.85
54	4.94
55	5.04

Data	Value (Hz)
56	5.13
57	5.22
58	5.31
59	5.40
60	5.49
61	5.58
62	5.68
63	5.77
64	5.86
65	5.95
66	6.04
67	6.13
68	6.23
69	6.32
70	6.41
71	6.50
72	6.59
73	6.68
74	6.77
75	6.87
76	6.96
77	7.05
78	7.14
79	7.23
80	7.32
81	7.42
82	7.51
83	7.60
84	7.69
85	7.78
86	7.87
87	7.97
88	8.06
89	8.15
90	8.24
91	8.33
92	8.42
93	8.51
94	8.61
95	8.70
96	8.79
97	8.88
98	8.97
99	9.06
100	9.16
101	9.25
102	9.34
103	9.43
104	9.52
105	9.61
106	9.70
107	9.80
108	9.89
109	9.98
110	10.07
111	10.53

Data	Value (Hz)
112	10.99
113	11.54
114	12.45
115	13.18
116	13.92
117	14.65
118	15.38
119	16.11
120	16.85
121	17.58
122	18.31
123	19.04
124	19.76
125	20.51
126	21.24
127	21.97
128	22.71
129	23.44
130	24.17
131	24.90
132	25.63
133	26.37
134	27.10
135	27.83
136	28.56
137	29.30
138	30.03
139	30.76
140	31.49
141	32.23
142	32.96
143	33.69
144	34.42
145	35.16
146	35.89
147	36.62
148	37.35
149	38.09
150	38.82
151	39.55
152	40.28

Table#7
EQ Low Frequency

Data	Value (Hz)
0	32
1	40
2	50
3	63
4	80
5	100
6	125
7	160
8	200
9	250
10	315
11	400
12	500
13	630
14	800
15	1.0k
16	1.2k
17	1.6k
18	2.0k

Table#8
EQ High Frequency

Data	Value (Hz)
0	500
1	630
2	800
3	1.0k
4	1.2k
5	1.6k
6	2.0k
7	2.5k
8	3.2k
9	4.0k
10	5.0k
11	6.3k
12	8.0k
13	10.0k
14	12.0k
15	16.0k

Table#9
EQ Mid Frequency

Data	Value (Hz)
0	100
1	125
2	160
3	200
4	250
5	315
6	400
7	500
8	630
9	800
10	900
11	1.0k
12	1.2k
13	1.6k
14	2.0k
15	2.5k
16	3.2k
17	4.0k
18	5.0k
19	6.3k
20	8.0k
21	10.0k

Table#10
LPF

Data	Value (Hz)
0	1.0k
1	1.1k
2	1.2k
3	1.4k
4	1.6k
5	1.8k
6	2.0k
7	2.2k
8	2.5k
9	2.8k
10	3.2k
11	3.6k
12	4.0k
13	4.5k
14	5.0k
15	5.6k
16	6.3k
17	7.0k
18	8.0k
19	9.0k
20	10.0k
21	11.0k
22	12.0k
23	14.0k
24	16.0k
25	Thru

**Table#11
HPF**

Data	Value (Hz)
0	Thru
1	32
2	35
3	40
4	45
5	50
6	56
7	63
8	70
9	80
10	90
11	100
12	110
13	125
14	140
15	160
16	180
17	200
18	220
19	250
20	280
21	315
22	355
23	400
24	450
25	500
26	560
27	630
28	700
29	800
30	900
31	1000
32	2000
33	2500
34	3200
35	4000
36	5000
37	6300
38	8000

**Table#12
Exciter HPF**

Data	Value (Hz)
0	500
1	630
2	800
3	1.0k
4	1.2k
5	1.6k
6	2.0k
7	2.5k
8	3.2k
9	4.0k
10	5.0k
11	6.3k
12	8.0k
13	10.0k
14	12.0k
15	16.0k

**Table#13
Wah Cutoff Freq.**

Data	Value (Hz)
0	20
1	32
2	45
3	63
4	80
5	100
6	125
7	160
8	200
9	250
10	280
11	315
12	350
13	400
14	500
15	560
16	630
17	700
18	800
19	1.0k
20	1.2k
21	1.4k
22	1.6k
23	1.8k
24	2.0k
25	2.2k
26	2.5k
27	2.8k
28	3.2k
29	3.6k
30	4.0k
31	5.0k
32	5.6k
33	6.3k
34	7.0k
35	8.0k
36	9.0k
37	10.0k
38	12.0k
39	14.0k

**Table#14
Q (Resonance)**

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

**Table#15
LFO Phase**

Data	Value (°)
0	0
1	60
2	90
3	120
4	180
5	240
6	270
7	300

**Table#16
AM Type (Chorus)**

Data	Value
0	off
1	1x Sft
2	1x Mid
3	1x Hrd
4	2x Sft
5	2x Mid
6	2x Hrd
7	4x Sft
8	4x Mid
9	4x Hrd
10	8x Sft
11	8x Mid
12	8x Hrd
13	Rndm Soft
14	Rndm Mid
15	Rndm Hard

Data	Value (Hz)
60	7.0
61	7.1
62	7.2
63	7.3
64	7.4
65	7.5
66	7.6
67	7.7
68	7.8
69	7.9
70	8.0
71	8.1
72	8.2
73	8.3
74	8.4
75	8.5
76	8.6
77	8.7
78	8.8
79	8.9
80	9.0
81	9.1
82	9.2
83	9.3
84	9.4
85	9.5
86	9.6
87	9.7
88	9.8
89	9.9
90	10.0

TEMPLATE TYPE LIST

Modelltyp-Liste
Liste des types de Modèles

Pitch Envelope Generator

	LCD	NAME
1	Up Soft	Attack Pitch Up Soft
2	Up Slow	Attack Pitch Up Slow
3	Up Fast	Attack Pitch UP Fast
4	DwnSoft	Attack Pitch Down Soft
5	DwnSlw	Attack Pitch Down Slow
6	DwnFast	Attack Pitch Down Fast
7	SynBras	Synth Brass
8	Shaku	Shakuhachi
9	Bagpipe	Bagpipes
10	VeloPtW	Velocity Pitch control Wide
11	VeloPtS	Velocity Pitch control Soft
12	Harmo1	Harmonica 1
13	Harmo2	Harmonica 2
14	RR +2	Pitch Up +2 in Release
15	RR +7	Pitch Up +7 in Release
16	RR +12	Pitch Up +12 in Release
17	RR -2	Pitch Down -2 in Release
18	RR -5	Pitch Down -5 in Release
19	RR -12	Pitch Down -12 in Release
20	Idea 1	Attack Pitch Up
21	Idea 2	Attack Pitch Down
22	SlwDwn	Slow Down
23	UpDown	Up Down
24	SynTom	Synth Tom
25	AnaSoft	Analog Soft
26	AnaHard	Analog Hard
27	AnaFast	Analog Fast
28	Combi 1	Combination 1
29	Combi 2	Combination 2
30	Combi 3	Combination 3
31	Combi 4	Combination 4
32	SE 1	Sound Effect 1
33	SE 2	Sound Effect 2
34	SE 3	Sound Effect 3
35	Growl	Growl Sound
36	FastWobb	Fast wobble Sound
37	Shift+2	Pitch Shift +2
38	Shift+6	Pitch Shift +6
39	Shift+12	Pitch Shift +12
40	BrsFall	Brass Fall

Amplitude Envelope Generator

	LCD	NAME
1	A.Piano	Acoustic Piano
2	E.Grand	Electric Grand
3	Guitar	Guitar Type
4	E.Bass	Electric Bass
5	Wind	Wood Wind
6	Brass	Brass
7	SfzBras	Sforzando Brass
8	Sfz1	Sforzando 1
9	Sfz2	Sforzando 2
10	SynBras	Synth Brass
11	St Fast	Strings Fast
12	StSlwPd	Strings Slow Pad
13	StRVelo	Strings Rate Velocity Sence
14	SynBas1	Synth Bass 1
15	SynBas2	Synth Bass 2
16	Organ	Organ
17	TP Long	Tuned Perc Long
18	TP Shrt	Tuned Perc Short
19	Pluck1	Pluck 1
20	Pluck2	Pluck 2
21	SynPad	Synth Pad
22	SyComp	Synth Comp
23	SyLead	Synth Lead
24	Percsiv	Percussive
25	Dbl hit	Double Hit
26	Mute	Mute
27	Idea 1	Idea 1
28	Idea 2	Idea 2
29	Idea 3	Idea 3
30	Idea 4	Idea 4
31	Idea 5	Idea 5
32	Idea 6	Idea 6
33	Idea 7	Idea 7
34	Idea 8	Idea 8
35	Scaling1	AMP Scaling 1
36	Scaling2	AMP Scaling 2
37	Scaling3	AMP Scaling 3
38	Scaling4	AMP Scaling 4
39	OnOff	Switch Type EG

Filter Envelope Generator

	LCD	NAME
1	VeloSoft	Velocity Soft
2	VeloWide	Velocity Wide
3	VeloHard	Velocity Hard
4	PnoWide	Piano Type Wide
5	PnoVelo	Piano Type Velocity
6	Syn EP	Synth EP
7	Clav	Clavi
8	ResoClv	Resonant Clavi
9	AcoGtr	Acoustic Guitar
10	EleGtr	Electric Guitar
11	E. Bass	Electric Bass
12	E. Bs Vel	Electric Bass Velocity
13	Wind	Wood Wind
14	Brass	Brass
15	Sfz1	Sforzando 1
16	Sfz2	Sforzando 2
17	SfzResnt	Sforzando Resonant
18	BritStr	Bright Strings
19	Hrpsi01	Harpicord 1
20	Hrpsi02	Harpicord 2
21	Mute Pik	Mute Pick
22	TunedRes	Tuned Resonant 1
23	TuneRes2	Tuned Resonant 2
24	TuneRes3	Tuned Resonant 3
25	ResVel	Resonant Velocity
26	TunPerc	Tuned Percussion
27	L12Piano	LPF 12db Type Piano
28	SynBas1	Synth Bass 1
29	SynBas2	Synth Bass 2
30	SynBrs1	Synth Brass 1
31	SynBrs2	Synth Brass 2
32	SynPad1	Synth Pad 1
33	SynPad2	Synth Pad 2
34	Sweep	Sweep
35	SlwAtk	Slow Attack
36	RezoRR	Resonant Release
37	RezoAtk	Resonant Attack
38	Atk&RR	Resonant Attack & Release
39	SyLead1	Synth Lead 1
40	SyLead2	Synth Lead 2
41	LFO.5	LFO Control + Scaling0.5
42	Scale1	Filter Scaling 1
43	Scale2	Filter Scaling 2
44	Scale3	Filter Scaling 3
45	LPFVal1	LPF Variation 1
46	LPFVal2	LPF Variation 2
47	BPFVal1	BPF Variation 1
48	BPFVal2	BPF Variation 2
49	BEFVal1	BEF Variation 1
50	BEFVal2	BEF Variation 2
51	HPFVal1	HPF Variation 1
52	HPFVal2	HPF Variation 2
53	HPFVal3	HPF Variation 3
54	LPFInit	LPF Init data
55	HPFInit	HPF Init data
56	BPFInit	BPF Init data
57	BEFInit	BEF Init data
58	L12Init	LPF12 Init data
59	Thru	Filter Thru

Low Frequency Oscillator

	LCD	NAME
1	Vibrato	Vibrato
2	VibAmd	Vibrato + AMP Modulation
3	Vib+Fmd	Vibrato + Filter Modulation
4	Vib Velo	Vibrato speed MOD by Velocity
5	Tremolo	Tremolo
6	wahwah	WahWah
7	Tri	Triangle Modulation
8	Tri Velo	Triangle Vibrato Speed MOD by Velocity
9	Squ 1	Square PMOD 1
10	Squ 2	Square PMOD 2
11	Squ 3	Square PMOD 3
12	Squ 4	Square AMOD
13	SawDn1	Saw Down AMOD 1
14	SawDn2	Saw Down AMOD 2
15	SawUp1	Saw Up AMOD 1
16	SawUp2	Saw Up AMOD 2
17	S&H 1	Sample and Hold PMOD 1
18	S&H 2	Sample and Hold PMOD 2
19	Siren 1	Siren 1
20	Siren 2	Siren 2
21	Siren 3	Siren 3
22	Siren 4	Siren 4
23	Tele..	Telephone
24	LaserGn	Laser Gun
25	CTR tri	Tri wave for MOD Wheel Modulation
26	CTR dwn	Saw Down Wave for MOD Wheel Modulation
27	CTR up	Saw Up Wave for MOD Wheel Modulation
28	CTR squ	Square Wave for MOD Wheel Modulation
29	CTR sin	Sine Wave for MOD Wheel Modulation
30	CTR S&H	S&H Wave for MOD Wheel Modulation
31	BEFLesl	For BEF Filter Leslie Effect
32	90Sine	Phase +90 Sine Wave
33	180Tri	Phase +180 Triangle Wave

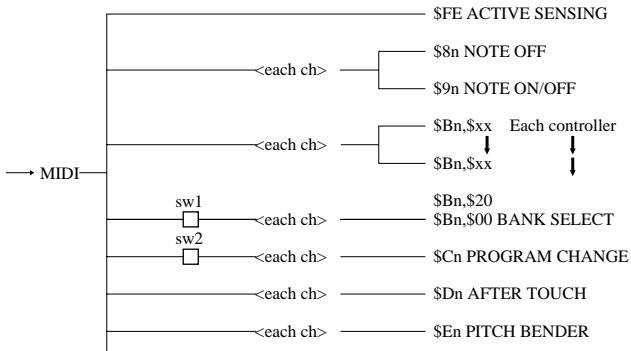
MIDI DATA FORMAT

MIDI-Datenformat
Données de Format MIDI

1. Tone Generator

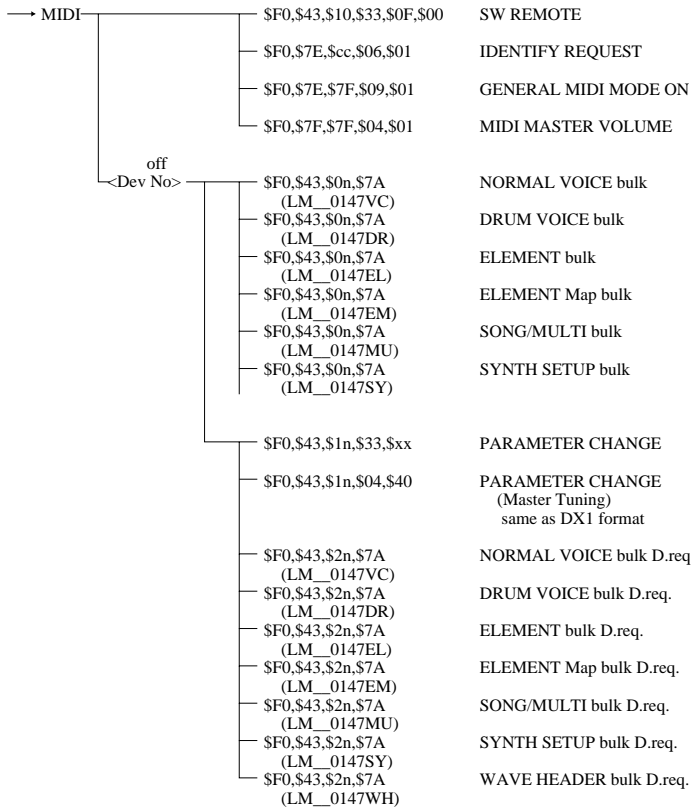
1.1 MIDI reception/transmission block diagram

(MIDI reception condition) 1/2



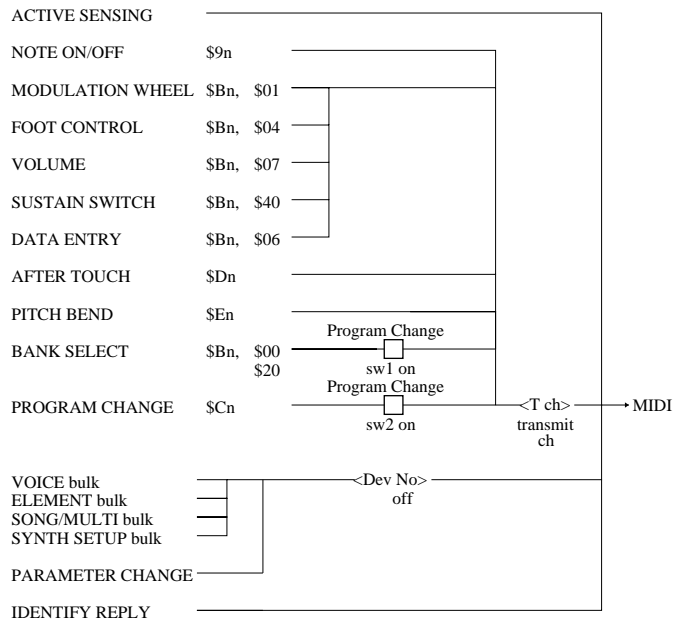
NOTES:
sw1: Setting MIDI Program Change to "on" turns sw1 on.
sw2: Settings other than MIDI Program Change "off" turns sw2 on.

(MIDI reception condition) 2/2



Dev No = Device Number

(MIDI transmission condition)



NOTES:
sw1: Setting MIDI Program Change to "on" turns sw1 on.
sw2: Settings other than MIDI Program Change "off" turns sw2 on.

1.2 Channel Message

1.2.1 Transmission

1.2.1.1 Note on/off

Transmission note range = C-2(0)...G8(127)
Velocity range = 1...127

1.2.1.2 Control change

Control change is output via MIDI when the following controllers are used.

ctrl#	parameter	data rng
1	Modulation Wheel	0 ~ 127
4	Foot Controller	0 ~ 127
7	Foot Volume	0 ~ 127
11	Expression	0 ~ 127
64	Sustain Switch	0 , 127
1 ~ 119	Continuous Slider	0 ~ 127

1.2.1.3 Program change

When a voice is selected, the bank select and program change is transmitted according to the following chart.

		Bank No. MSB / LSB	PGM CNG No.
Normal Voice	GM	0(\$00) / 0(\$00)	1 ~ 128(\$00 ~ \$7F)
	PRESET	1(\$01) / 0(\$00)	
	INTERNAL	2(\$02) / 0(\$00)	
	SONG	3(\$03) / 0(\$00)	
	EXTERNAL	4(\$04) / 0(\$00)	
Drum Voice	GM	127(\$7F) / 0(\$00)	*1
	PRESET	17(\$11) / 0(\$00)	*2
	INTERNAL	18(\$12) / 0(\$00)	*2
	SONG	19(\$13) / 0(\$00)	*2
	EXTERNAL	20(\$14) / 0(\$00)	*2

BANK SELECT \$Bn , \$00 , \$00~\$7F (MSB)
 \$Bn , \$20 , \$00~\$7F (LSB)
 PROGRAM CHANGE \$Cn , \$00~\$7F

*1: Voice number=D01~D08 PGM CNG No.= 1(\$00);D01
 9(\$08);D02
 17(\$10);D03
 25(\$18);D04
 26(\$19);D05
 33(\$20);D06
 41(\$28);D07
 49(\$30);D08
 *2: Voice number=D01,D02 PGM CNG No.= 1(\$00),2(\$01)

When program change mode is on, bank select and program change will transmit.

When program change mode is "off", bank select and program change will not transmit.

When "ignore bank select" is specified, bank select will not transmit.

1.2.1.4 Pitch Bend

Pitch bend is transmitted with a resolution of 7 bits.

1.2.1.5 Aftertouch

Aftertouch is transmitted via MIDI according to realtime control.

1.2.1.6 Channel Mode Message

Channel mode message is not transmitted.

1.2.2 Reception

1.2.2.1 Note on/off

Reception note range = C-2 ~ G8
 Velocity range = 0 ~ 127

1.2.2.2 Control change

Parameters in the table below can be controlled by MIDI.

cntrl#	parameter	data rng	
0	Bank Select MSB	0 ~ 127	*1
32	Bank Select LSB	0 ~ 127	*1
1	Modulation wheel	0 ~ 127	
4	Foot control	0 ~ 127	
6	Data Entry	0 ~ 127	
7	Inst Volume	0 ~ 127	
10	Pan	0 ~ 127	
11	Expression	0 ~ 127	
84	Portament Control	0 ~ 127	
91	EF Send 1 (Reverb)	0 ~ 127	
93	EF Send 2 (Chorus)	0 ~ 127	
94	EF Send 3 (Delay/Rev)	0 ~ 127	
1 ~ 119	MIDI Control 1	0 ~ 127	
1 ~ 119	MIDI Control 2	0 ~ 127	
64	Sustain Switch	0 , 127	

*1: See Program Change 1.2.1.3

1.2.2.3 Program Change

When a program change message is received, the W5/W7 performs the operations below. Three types of reception modes can be set with the System Setup.

In Store Mode and Voice Edit Mode program changes will not be received.

1) Off: Program changes will not be received.

2) Ignore Bank Select: Individual program number (001 ~ 128) change messages will be received but bank select messages will be ignored.

3) On: Bank select and program change messages will be received according to the following chart.

		Bank No. MSB / LSB	PGM CNG No.
Normal Voice	GM	0(\$00) / 0(\$00)	1 ~ 128(\$00 ~ \$7F)
	PRESET	1(\$01) / 0(\$00)	
	INTERNAL	2(\$02) / 0(\$00)	
	SONG	3(\$03) / 0(\$00)	
	EXTERNAL	4(\$04) / 0(\$00)	
Drum Voice	GM	127(\$7F) / 0(\$00)	*1
	PRESET	17(\$11) / 0(\$00)	*2
	INTERNAL	18(\$12) / 0(\$00)	*2
	SONG	19(\$13) / 0(\$00)	*2
	EXTERNAL	20(\$14) / 0(\$00)	*2

BANK SELECT \$Bn , \$00 , \$00~\$7F (MSB)
 \$Bn , \$20 , \$00~\$7F (LSB)
 PROGRAM CHANGE \$Cn , \$00~\$7F

*1: PGM CNG No.= 1(\$00) Voice number=D01
 9(\$08) Voice number=D02
 17(\$10) Voice number=D03
 25(\$18) Voice number=D04
 26(\$19) Voice number=D05
 33(\$20) Voice number=D06
 41(\$28) Voice number=D07
 49(\$30) Voice number=D08
 *2: PGM CNG No.= 1(\$00),2(\$01) Voice number=D01,D02

If program change is not specified as outlined above, MSB will be ignored.

When MSB is not 0 or 1 and LSB is not 0, Bank Off will be designated, and no sound will be produced.

When Bank=off and bank select and program change messages are received, voices will change accordingly.

If a drum voice bank select message is received and the program change number is outside of the range, the bank will change to the selected bank and the drum voice number will change to the previously selected drum voice number within the bank. The default=0.

1.2.2.4 Pitch Bend

Pitch bend is received only by the MSB.

1.2.2.5 Aftertouch

Aftertouch is received in accordance with the reception channel of each mode.

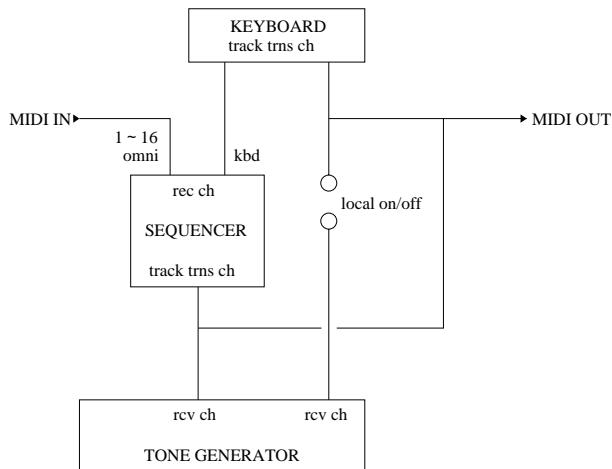
1.2.2.6 Channel Mode message

cntrl#	parameter	data rng
120	All Sound Off	0
121	Reset All Controller	0
123	All Notes Off	0

1.2.2.7 RPN (Registered Parameter Number)

RPN	Data Entry	parameter	data range
MSB LSB	MSB LSB		
\$00 \$00	\$mm ---	Pitch Bend Sensitivity	0..12
\$00 \$01	\$mm \$ll	Fine Tune	-8192..+8191
		(mm,ll):(\$00,\$)..(\$7F,\$7F)	
\$00 \$02	\$mm ---	Course Tune	-63..+63
			(\$28..\$58)
\$7F \$7F	--- ---	RPN reset	don't care

1.2.3 Configuration of Keyboard, Sequencer, and Tone Generator Sections



NOTE: Note on messages transmitted to the tone generator will be independent among keyboard, sequencer and MIDI. Controller information (control change, aftertouch, and pitch bend, etc.) will not be independent.

2. System Exclusive Messages

2.1 General MIDI Mode On

Reset the following controller settings.

VOLUME	100
PAN	Center
PROGRAM CHANGE	1(Grandpno)
BANK SELECT MSB	0
SYS EFFECT SEND1	64
SYS EFFECT SEND2	0
SYS EFFECT SEND3	0
PITCH BEND	0(Center)
MODULATION	0(Off)
EXPRESSION	127(Maximum)
SUSTAIN SWITCH	0(Off)
PRN	Condition of undetermined number
PORTAMENT CONTROL	Reset
PITCH BEND RANGE	02(2-1/2 octaves)
FINE TUNING	0
COARSE TUNING	0

"GM on" messages will not be received when the W5/W7 is in Voice Edit Mode.

2.2 Parameter Change

The W5/W7 will receive the eight types of parameter change messages listed below. However, 6) Switch Remote will only receive and it will act the same function as the panel switches.

- 1). Song/Multi Data
- 2). Normal Voice Data
- 3). Drum Voice Data
- 4). Element Data
- 5). Setup Data
- 6). Switch Remote
- 7). Master Tuning
- 8). Universal System Exclusive Message

Except for Device Number off, the parameter change reception cannot be turned off with each MIDI switch.

2.2.1 W5/W7 Data parameter change

(1) Format

11110000	F0	
01000011	43	
0001nnnn	nnnn	= Device Number
00110011	33	
0000gggg	gggg	= Parameter Group Number
0sssssss	sssssss	= Parameter Sub Group Number
0ppppppp	ppppppp	= Parameter Number MSB7bit
0ppppppp	ppppppp	= Parameter Number LSB7bit
0vvvvvvv	vvvvvvv	= Data Value MSB7bit
0vvvvvvv	vvvvvvv	= Data Value LSB7bit
11110111	F7	

(2) Parameter Group Number, Sub Group Number

Parameter Group Name	gggg	ssssss
Element Data	0	*1
Normal Voice Data	1	*2
Drum Voice Data	2	*3
Song/Multi Data	4	*4
Setup Data	7	0
Switch Remote	13	0

- *1: cccceee
c = 0..15;Inst Channel(1..16)
e = 1..4 ;Element Number
- *2: cccceee
c = 0..15;Inst Channel(1..16)
e = 1..4 ;Element Number, 0;common data
- *3: cccceee
c = 0..15;Inst Channel(1..16)
e = 1;key data, 0;common data
- *4: ccccccc
c = 1..16;Inst Channel(1..16)
= 0;common data

(3) Parameter Number, Data Value

See Appended Table below, page 44.

(4) Operation

(Reception)

1) ~ 6)

All Mode: Modes are received as they are. (No page change.)

7) This parameter change is only for reception. Remote controlling is possible with all the panel switches. This message has the same effect as pressing the switch.

2.2.2 Master Tuning parameter change

(1) Format

11110000	F0	
01000011	43	
0001nnnn	nnnn	= Device Number
00101001	04	
01000000	40	
0vvvvvvv	vvvvvvv	= Data Value
11110111	F7	

(2) Operation

(Reception)

All Mode: Modes are received as they are. (No page change.)

2.2.3 Identify Reply

(1) Format

W7:		
11110000	F0	
01000011	7E	= Non Real-time Universal Sys.Ex
0nnnnnnn	nnnnnnn	= Device Number
00000110	06	= General Information(sub-ID #1)
00000010	02	= Device Identify Reply
01000011	43	= YAMAHA ID
00000000	00	= Device family code LSB
01000001	41	= Device family code MSB
00010011	13	= Device number code LSB
00000001	01	= Device number code MSB
0mmmmmmm	mmmmmmm	= Minor Version No.
00000000	00	
0vvvvvvv	vvvvvvv	= Major Version No.
00000000	00	
11110111	F7	

W5:		
11110000	F0	
01000011	7E	= Non Real-time Universal Sys.Ex
0nnnnnnn	nnnnnnn	= Device Number
00000110	06	= General Information(sub-ID #1)
00000010	02	= Device Identify Reply
01000011	43	= YAMAHA ID
00000000	00	= Device family code LSB
01000001	41	= Device family code MSB
00101101	2D	= Device number code LSB
00000001	01	= Device number code MSB
0mmmmmmm	mmmmmmm	= Minor Version No.
00000000	00	
0vvvvvvv	vvvvvvv	= Major Version No.
00000000	00	
11110111	F7	

(2) Operation

Identify Reply will be transmitted when the "Identify Request" is received.

3. Bulk Dump

The W5/W7 will transmit and receive six types of bulk data, as listed below. Transmission will be performed when Utility Mode "bulk dump" is activated or "dump request" is received. "6) Wave Header bulk dump" can only be transmitted when a dump request is received.

- 1). Normal Voice bulk dump
- 2). Drum Voice bulk dump
- 3). Element bulk dump
- 4). Song/Multi bulk dump
- 5). Synthesizer Setup bulk dump
- 6). Wave Header bulk dump

3.1.1 Bulk Dump 1) - 5)

(1) Format

```

0 11110000      F0
1 01000011      43
2 0000nnnn      nnnn      = Device Number
3 01111010      7A
4 0bbbbbbb      7 No. of bytes.
5 0bbbbbbb      7
6 01001100      4C(ascii"L")
7 01001101      4D(ascii"M")
8 00100000      20(ascii" ")
9 00100000      20(ascii" ")
10 0ddddddd     C dddddddd = Data Format Name(ascii)
11 0ddddddd     H dddddddd = Data Format Name(ascii)
12 0ddddddd     E dddddddd = Data Format Name(ascii)
13 0ddddddd     C dddddddd = Data Format Name(ascii)
14 0ddddddd     K dddddddd = Data Format Name(ascii)
15 0ddddddd     dddddddd = Data Format Name(ascii)
16 00000000     S 00
                U 00
                M 00
29 00000000     t t t t t t = Memory_type
30 0 t t t t t t m m m m m m = Memory Number
31 0 m m m m m m v v v v v v = data value
32 0 v v v v v v s s s s s s = check_sum
                11110111      F7
    
```

"2" will become "2n", "4" and "5" are not available, during a Dump Request and 32 becomes "F7".

(2) Data Format Name

Bulk Dump Type	ddddddd	tttttt	mmmmmmm
Normal Voice	0147VC	*1	*4a
Drum Voice	0147DR	*2	*4b
Element	0147EL	*2	*5
Song/Multi	0147MU	*3	0
Synthesizer Setup	0147SY	0	0
Element Used Map	0147EM	0	0

*1: 0 = song,
3 = int,
126 = all internal voice & element (dump request only)
127 = edit_buffer

*2: 0 = song,
3 = int,
127 = edit_buffer

*3: 127 = edit_buffer

*4a: when t=127, 0..15 = Inst Channel (1..16); when t=126, 0.
Other than the above, 0..127 = Memory Number (1..128)

*4b: when t=127, 0..15 = Inst Channel (1..16)
Other than the above, 0..127 = Memory Number (1..128)

*5: when t=127, cccceee c = 0..15; Inst Channel (1..16)
e = 1..4; Element Number
Other than the above, 0..127 = Memory Number (1..128)

*6: when memory number exceeds the upper limit, it is handled as the upper limit value during the bulk reception, and it is ignored during the dump request reception.

*7: When the memory type is not defined during bulk dump reception;
with 1), 2), 3), =127 edit_buffer
= 0-2 song
= 3-5 int
= other bit3-bit7 are ignored and the above process is performed.

with 4), it is ignored and handled as edit_buffer.

with 5), 6), it is ignored and handled as int.

When the memory type is not defined during dump request reception, it is ignored.

(3) Data Format

See Appended Table below, page 44.

(4) Operation

(Transmission)

When transmitting in Bulk Utility,

(Normal Voice)

Memory_type = 03(int)
Memory Number = Transmission is carried out sequentially starting from 0 to 127.

(Drum Voice)

Memory_type = 03(int)
Memory Number = Transmission is carried out sequentially starting from 0 to 1.

(Element)

Memory_type = 03(int)
Memory Number = Transmission is carried out sequentially starting from 0 to 127.

(Element Map)

Memory_type = 00(int)
Memory Number = Transmit 0.

3.1.2 Wave Header Bulk Dump 6)

(1) Format

```

0 11110000      F0
1 01000011      43
2 0000nnnn      nnnn      = Device Number
3 01111010      7A
4 0bbbbbbb      7 No. of bytes.
5 0bbbbbbb      7
6 01001100      4C(ascii"L")
7 01001101      4D(ascii"M")
8 00100000      20(ascii" ")
9 00100000      20(ascii" ")
10 0ddddddd     C dddddddd = Data Format Name(ascii)
11 0ddddddd     H dddddddd = Data Format Name(ascii)
12 0ddddddd     E dddddddd = Data Format Name(ascii)
13 0ddddddd     C dddddddd = Data Format Name(ascii)
14 0ddddddd     K dddddddd = Data Format Name(ascii)
15 0ddddddd     dddddddd = Data Format Name(ascii)
16 00000000     S 00
                U 00
                M 00
29 00000000     t t t t t t = Memory_type
30 0 t t t t t t m m m m m m = Memory Number
31 0 m m m m m m v v v v v v = data value
32 0 v v v v v v s s s s s s = check_sum
                11110111      F7
    
```

(2) Data Format Name

Bulk Dump Type	ddddddd	tttttt	mmmmmmm
Wave Header	0147WH	0	0

(3) Data Format

PARAMETER	PARAM NUMBER	BULK NUMBER	DATA RANGE	NOTES
WAV_NAME0	0	0	0,32..127	voice name top
WAV_NAME1	1	1	0,32..127	voice name
WAV_NAME2	2	2	0,32..127	voice name
WAV_NAME3	3	3	0,32..127	voice name
WAV_NAME4	4	4	0,32..127	voice name
WAV_NAME5	5	5	0,32..127	voice name
WAV_NAME6	6	6	0,32..127	voice name
WAV_NAME7	7	7	0,32..127	voice name bottom

Above information is signalled 100 times. All data will become 0 where waves do not exist.

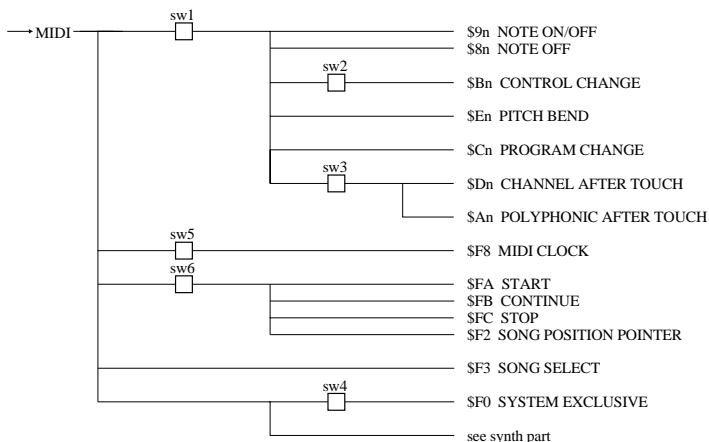
(4) Operation

The Wave Header Bulk will be transmitted when the External Board is installed and the W5/W7 receives bulk dump request.

4. Sequencer Mode

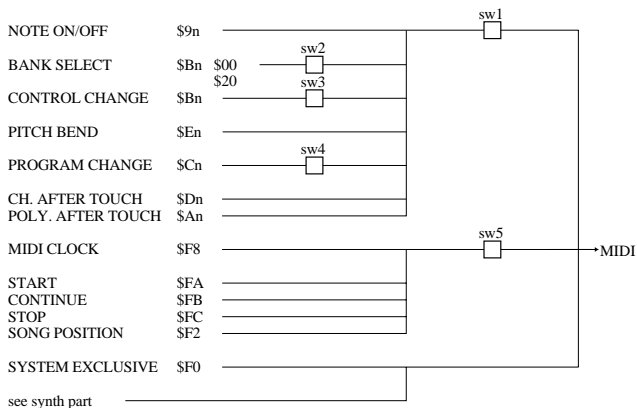
4.1 MIDI reception/transmission block diagram

(Receive flow chart)



- Notes: sw1 Receive channels during recording.
 sw2 Control change on/off in SEQ SETUP during recording.
 sw3 Aftertouch on/off in SEQ SETUP during recording.
 sw4 System exclusive on/off in SEQ SETUP during recording.
 sw5 Turns on when clock is set to MIDI in SEQ SETUP.
 sw6 MIDI control on/off in SEQ SETUP.

(Transmit flow chart)



- Notes: sw1 Track Transmit Channel.
 sw2 Bank select on/off in SEQ SETUP.
 sw3 Control change on/off in SEQ SETUP.
 sw4 Program change on/off in SEQ SETUP.
 sw5 MIDI control on/off in SEQ SETUP.

4.2 Channel Message

Reception is carried out only during recording. Transmission is performed only when playing and overdubbing. Refer to Receive and Transmit flow charts for reception and transmission conditions. Polyphonic Aftertouch can be transmitted and received, but the internal tone generator will not recognize it.

4.3 Mode Message

Transmission and reception is carried out.

4.4 System Common Message

Only \$F2 and \$F3 are received, and the others are not transmitted nor received.

4.5 System Realtime Messages

4.5.1 Status F8, FA, FB, FC are received.

4.5.2 After status F9, FD, FF are read, nothing will be carried out.

4.6 System Exclusive Messages

During recording, W5/W7 will not respond to dump request.

5. Status FE (Active Sensing)

a) Transmission

FE is transmitted approximately every 170 msec.

b) Reception

If a signal is not output from MIDI for longer than approximately 300 msec after receiving FE, the MIDI reception buffer is cleared, and if key on remains it is turned off.

6. Appended Table

(1) MIDI Parameter Change table (Song / Multi)

\$F0,\$43,\$1n,\$33,\$04,sub_group,p_msb,p_lsb,v_msb,v_lsb,\$F7

NOTES: n: Device Number

s: parameter sub group number

000cccc

c: 1..16; Inst Channel (1..16), 0: common data

p: parameter number

v: parameter value

[SONG_MULTI PARAMETERS]

1.COMMON c=0

PARAMETER	PARAMETER NUMBER	BULK NUMBER	DATA RANGE	DISPLAY	NOTES
SNG_NAME0	0	0	32..127	ASCII	song name top
SNG_NAME1	1	1	32..127	ASCII	song name
SNG_NAME2	2	2	32..127	ASCII	song name
SNG_NAME3	3	3	32..127	ASCII	song name
SNG_NAME4	4	4	32..127	ASCII	song name
SNG_NAME5	5	5	32..127	ASCII	song name
SNG_NAME6	6	6	32..127	ASCII	song name
SNG_NAME7	7	7	32..127	ASCII	song name
SNG_NAME8	8	8	32..127	ASCII	song name
SNG_NAME9	9	9	32..127	ASCII	song name bottom
SNG_TEMPO	10	10,11	30..250	30..250	tempo
SNG_NEXT_PLAY	12	12	0..4	off,loop, chain & stop, chain & play chain & cont	next play
reserved	-	13			reserved
SNG_EF_INS_H	14	14,15	b0..b7	9..16	ins effect sw (msb)
SNG_EF_INS_L	16	16,17	b0..b7	1..8	ins effect sw (lsb)
SNG_EF1_TYPE	18	18	1..15	1..15	effect1 type
SNG_EF1_LVL	19	19	0..127	0..127	effect1 return level
SNG_EF2_TYPE	20	20	1..9	1..9	effect2 type
SNG_EF2_LVL	21	21	0..127	0..127	effect2 return level
SNG_EF3_TYPE	22	22	1..16	1..16	effect3 type
SNG_EF3_LVL	23	23	0..127	0..127	effect3 return level
SNG_EF1_PRM1	24	24,25	0..???	??? (14bit)	effect1 param1
SNG_EF1_PRM2	26	26,27	0..???	??? (14bit)	effect1 param2
SNG_EF1_PRM3	28	28,29	0..???	??? (14bit)	effect1 param3
SNG_EF1_PRM4	30	30,31	0..???	??? (14bit)	effect1 param4
SNG_EF1_PRM5	32	32,33	0..???	??? (14bit)	effect1 param5
SNG_EF1_PRM6	34	34,35	0..???	??? (14bit)	effect1 param6
SNG_EF1_PRM7	36	36,37	0..???	??? (14bit)	effect1 param7
SNG_EF1_PRM8	38	38,39	0..???	??? (14bit)	effect1 param8
SNG_EF2_PRM1	40	40,41	0..???	??? (14bit)	effect2 param1
SNG_EF2_PRM2	42	42,43	0..???	??? (14bit)	effect2 param2
SNG_EF2_PRM3	44	44,45	0..???	??? (14bit)	effect2 param3
SNG_EF2_PRM4	46	46,47	0..???	??? (14bit)	effect2 param4
SNG_EF2_PRM5	48	48,49	0..???	??? (14bit)	effect2 param5
SNG_EF2_PRM6	50	50,51	0..???	??? (14bit)	effect2 param6
SNG_EF2_PRM7	52	52,53	0..???	??? (14bit)	effect2 param7
SNG_EF2_PRM8	54	54,55	0..???	??? (14bit)	effect2 param8
SNG_EF3_PRM1	56	56,57	0..???	??? (14bit)	effect3 param1
SNG_EF3_PRM2	58	58,59	0..???	??? (14bit)	effect3 param2
SNG_EF3_PRM3	60	60,61	0..???	??? (14bit)	effect3 param3
SNG_EF3_PRM4	62	62,63	0..???	??? (14bit)	effect3 param4
SNG_EF3_PRM5	64	64,65	0..???	??? (14bit)	effect3 param5
SNG_EF3_PRM6	66	66,67	0..???	??? (14bit)	effect3 param6
SNG_EF3_PRM7	68	68,69	0..???	??? (14bit)	effect3 param7
SNG_EF3_PRM8	70	70,71	0..???	??? (14bit)	effect3 param8
SNG_LOC1	-	72,73	0..998	1..999	location point 1
SNG_LOC2	-	74,75	0..998	1..999	location point 2
SNG_KEY_MODE	76	76	0..3	norm,split, layer,4zone	keyboard mode
SNG_SPLIT	77	77	0..127	C-2..G8	split point

PARAMETER	PARAMETER NUMBER	BULK NUMBER	DATA RANGE	DISPLAY	NOTES
reserved	-	78			reserved
reserved	-	79			reserved
SNG_ZONE1_CH	80	80	b0..b3	1..16	zone 1 channel
			b4..b6	-3..+3 (2's)	zone 1 oct. shift
SNG_ZONE2_CH	81	81	b0..b3	1..16	zone 2 channel
			b4..b6	-3..+3 (2's)	zone 2 oct. shift
SNG_ZONE3_CH	82	82	b0..b3	1..16	zone 3 channel
			b4..b6	-3..+3 (2's)	zone 3 oct. shift
SNG_ZONE4_CH	83	83	b0..b3	1..16	zone 4 channel
			b4..b6	-3..+3 (2's)	zone 4 oct. shift
SNG_ZONE1_LOW	84	84	0..127	C-2..G8	zone 1 low limit
SNG_ZONE2_LOW	85	85	0..127	C-2..G8	zone 2 low limit
SNG_ZONE3_LOW	86	86	0..127	C-2..G8	zone 3 low limit
SNG_ZONE4_LOW	87	87	0..127	C-2..G8	zone 4 low limit
SNG_ZONE1_HIGH	88	88	0..127	C-2..G8	zone 1 high limit
SNG_ZONE2_HIGH	89	89	0..127	C-2..G8	zone 2 high limit
SNG_ZONE3_HIGH	90	90	0..127	C-2..G8	zone 3 high limit
SNG_ZONE4_HIGH	91	91	0..127	C-2..G8	zone 4 high limit
SNG_ZONE1_CTRL	92	92	b0..b5	AT,PB,MW, FC,FV,Sus	zone 1 controller sw
SNG_ZONE2_CTRL	93	93	b0..b5	AT,PB,MW, FC,FV,Sus	zone 1 controller sw
SNG_ZONE3_CTRL	94	94	b0..b5	AT,PB,MW, FC,FV,Sus	zone 1 controller sw
SNG_ZONE4_CTRL	95	95	b0..b5	AT,PB,MW, FC,FV,Sus	zone 1 controller sw
SNG_TCH1	96	96	b0..b3	1..16	track1 transmit ch
			b4	off,on	ext sw
			b5	off,on	int sw
SNG_TCH2	97	97	↑	↑	track2 transmit ch
SNG_TCH3	98	98	↑	↑	track3 transmit ch
SNG_TCH4	99	99	↑	↑	track4 transmit ch
SNG_TCH5	100	100	↑	↑	track5 transmit ch
SNG_TCH6	101	101	↑	↑	track6 transmit ch
SNG_TCH7	102	102	↑	↑	track7 transmit ch
SNG_TCH8	103	103	↑	↑	track8 transmit ch
SNG_TCH9	104	104	↑	↑	track9 transmit ch
SNG_TCH10	105	105	↑	↑	track10 transmit ch
SNG_TCH11	106	106	↑	↑	track11 transmit ch
SNG_TCH12	107	107	↑	↑	track12 transmit ch
SNG_TCH13	108	108	↑	↑	track13 transmit ch
SNG_TCH14	109	109	↑	↑	track14 transmit ch
SNG_TCH15	110	110	↑	↑	track15 transmit ch
SNG_TCH16	111	111	b0..b3	1..16	track16 transmit ch
			b4	off,on	ext sw
			b5	off,on	int sw
reserved	-	112,114			reserved
SNG_TRACK	115	115	b0	- ,	reserved
			b1	play,ignore	playfilter pgm chg
			b2	play,ignore	playfilter ctrl chg
			b3	play,ignore	playfilter bank sel
			b4	rec,ignore	recfilter AT
			b5	rec,ignore	recfilter ctrl chg
			b6	rec,ignore	recfilter sys excl
SNG_SYNC	116	116	b0	int,midi	clock source
			b6	off,on	MIDI control sw
SNG_CLICK_MODE	117	117	0..3	off,rec,play	click mode
				always	
SNG_CLICK_BEAT	118	118	0..2	1/4,1/8,1/16	click beat
SNG_NSFT	119	119	1..127	-63..+63 (ob)	transpose
reserved	-	120,127			reserved

2. INST c=1..16 Inst Channel (1..16)

PARAMETER	PARAMETER NUMBER	BULK NUMBER	DATA RANGE	DISPLAY	NOTES
MUL_CH_BANK	0	128,129	b0..b3	ext,int,sng, GM,pre..	inst. mem bank
			b4	normal,drum	voice type
			b5		reserved
			b6		reserved
			b7	off,on	inst. switch
MUL_CH_NUM	1	130,131	0..127	1..128	inst. voice number
MUL_CH_VOL	2	132	0..127	0..127	inst. volume
MUL_CH_PAN	3	133	b0..b5	L31..R31 (ob)	inst. pan
			b6	multi,vce	inst. pitch bend range source
MUL_CH_TUNE	4	134	1..127	-63..+63 (ob)	inst. tune
MUL_CH_NSFT	5	135	1..127	-63..+63 (ob)	inst. note shift
MUL_CH_SYSEF1	6	136	0..127	0..127	inst. sys effect send1
MUL_CH_SYSEF2	7	137	0..127	0..127	inst. sys effect send2
MUL_CH_SYSEF3	8	138	0..127	0..127	inst. sys effect send3
MUL_CH_PB_RNG	9	139	b0..b3	0..12	inst. pitch bend range
			b4	multi,vce	inst. sys effect send1 source
			b5	multi,vce	inst. sys effect send2 source
			b6	multi,vce	inst. sys effect send3 source
		140..151			
		152..163			
		164..175			
		176..187			
		188..199			
		212..223			
		224..235			
		236..247			
		248..259			
		260..271			
		272..283			
		284..295			
		296..307			
		308..319			

(2) MIDI Parameter Change table (Normal Voice)

\$F0,\$43,\$1n,\$33,\$01,sub_group,p_msb,p_lsb,v_msb,v_lsb,\$F7

NOTES: n: Device Number
s: parameter sub group number
ccccccc
c: 0..15; Inst Channel (1..16)
e: 1..4; Element Number, 0: common data
p: parameter number (e=0:0..69, e=1..4:0..45)
v: parameter value

1.COMMON e=0

PARAMETER	PARAMETER NUMBER	BULK NUMBER	DATA RANGE	DISPLAY	NOTES
VCE_NAME0	0	0	32..127	ASCII	voice name top
VCE_NAME1	1	1	32..127	ASCII	voice name
VCE_NAME2	2	2	32..127	ASCII	voice name
VCE_NAME3	3	3	32..127	ASCII	voice name
VCE_NAME4	4	4	32..127	ASCII	voice name
VCE_NAME5	5	5	32..127	ASCII	voice name
VCE_NAME6	6	6	32..127	ASCII	voice name
VCE_NAME7	7	7	32..127	ASCII	voice name
VCE_NAME8	8	8	32..127	ASCII	voice name
VCE_NAME9	9	9	32..127	ASCII	voice name bottom

PARAMETER	PARAMETER NUMBER	BULK NUMBER	DATA RANGE	DISPLAY	NOTES
VCE_CTGRY1	10	10	0..20	..Co	category
reserved	-	11			reserved
reserved	-	12			reserved
reserved	-	13			reserved
reserved	-	14,15			reserved
VCE_EF_LVL1	16	16	0..100	0..100	ins effect wet level1
VCE_EF_LVL2	17	17	0..100	0..100	ins effect wet level2
VCE_EF_LVL3	18	18	0..100	0..100	ins effect dry level1
VCE_EF_LVL4	19	19	0..100	0..100	ins effect dry level2
VCE_EF_PRM1	20	20,21	0..???	??? (14bit)	ins effect param1
VCE_EF_PRM2	22	22,23	0..???	??? (14bit)	ins effect param2
VCE_EF_PRM3	24	24,25	0..???	??? (14bit)	ins effect param3
VCE_EF_PRM4	26	26,27	0..???	??? (14bit)	ins effect param4
VCE_EF_PRM5	28	28,29	0..???	??? (14bit)	ins effect param5
VCE_EF_PRM6	30	30,31	0..???	??? (14bit)	ins effect param6
VCE_EF_PRM7	32	32,33	0..???	??? (14bit)	ins effect param7
VCE_EF_PRM8	34	34,35	0..???	??? (14bit)	ins effect param8
VCE_EF_DEV	36	36	0,1	auto off/auto on	ins effect mode
VCE_EF_PRM	37	37	0..12	off,1..12	effect ctrl parameter
VCE_EF_PRMMIN	38	38	0..100	0..100	effect ctrl min limit
VCE_EF_PRMMAX	39	39	0..100	0..100	effect ctrl max limit
VCE_EF_TYPE	40	40	1..35	1..35	ins effect type
VCE_MC1_DEV	41	41	0..119	off,1..119	mc1 device#
VCE_MC1_PRM	42	42	0..29	0..29	mc1 parameter
VCE_MC1_PRMMIN	43	43	0..100	0..100	mc1 parameter min limit
VCE_MC1_PRMMAX	44	44	0..100	0..100	mc1 parameter max limit
VCE_MC2_DEV	45	45	0..119	off,1..119	mc2 device#
VCE_MC2_PRM	46	46	0..29	0..29	mc2 parameter
VCE_MC2_PRMMIN	47	47	0..100	0..100	mc2 parameter min limit
VCE_MC2_PRMMAX	48	48	0..100	0..100	mc2 parameter max limit
VCE_SYSEF1	49	49	0..127	0..127	sys effect send1
VCE_SYSEF2	50	50	0..127	0..127	sys effect send2
VCE_SYSEF3	51	51	0..127	0..127	sys effect send3
VCE_VOL	52	52	0..127	0..127	voice total level
reserved	-	53			reserved
VCE_MW_PMDRNG	54	54	0..127	0..127	mw pmod range
VCE_MW_AMDRNG	55	55	0..127	0..127	mw amod range
VCE_MW_FMDRNG	56	56	0..127	0..127	mw fmod range
VCE_MW_COFRNG	57	57,58	0..255	-127..+127(sm)	mw cutoff range
VCE_MW_EBSRNG	58	59,60	0..255	-127..+127(sm)	mw egbias range
VCE_FC_PMDRNG	59	61	0..127	0..127	fc pmod range
VCE_FC_AMDRNG	60	62	0..127	0..127	fc amod range
VCE_FC_FMDRNG	61	63	0..127	0..127	fc fmod range
VCE_FC_COFRNG	62	64,65	0..255	-127..+127(sm)	fc cutoff range
VCE_FC_EBSRNG	63	66,67	0..255	-127..+127(sm)	fc egbias range
VCE_AT_PMDRNG	64	68	0..127	0..127	at pmod range
VCE_AT_AMDRNG	65	69	0..127	0..127	at amod range
VCE_AT_FMDRNG	66	70	0..127	0..127	at fmod range
VCE_AT_COFRNG	67	71,72	0..255	-127..+127(sm)	at cutoff range
VCE_AT_EBSRNG	68	73,74	0..255	-127..+127(sm)	at egbias range
VCE_AT_PBSRNG	69	75,76	b0..b4	-12..+12 (sm)	at pitch bend range
reserved	-	77,78	0		reserved
VCE_PB_RNG	71	79	b0..b3 b4..b6	0..12	pitch bend range reserved

2. ELEMENT e=1..4(element number)

PARAMETER	PARAMETER NUMBER	BULK NUMBER	DATA RANGE	DISPLAY	NOTES
VCE_EL_BANK	0	80,81	b0..b3 b4 b5 b6 b7	ext,int,sng, pre1,pre2.. off,on	elem. mem bank (b3=1:edit buf) reserved reserved reserved elem. switch
VCE_EL_NUM	1	82,83	0..255	1..256	elem. number
VCE_EL_VOL	2	84	0..127	0..127	elem. volume
VCE_EL_PAN	3	85	1..64	L31..R31 (ob)	elem. pan
VCE_EL_TUNE	4	86	1..127	-63..+63 (ob)	elem. tune
VCE_EL_NSFT	5	87	1..127	-63..+63 (ob)	elem. note shift
VCE_EL_FFIX	6	88,89	0..127	C-2..G8	elem. note number
VCE_EL_RNDM	7	90	b7 b0..b2 b3 b4..b6	normal/fix 0..4 0..7	elem. freq. pitch switch elem.pitch scaling reserved elem. random pitch
VCE_EL_NLIML	8	91	0..127	C-2..G8	elem. note limit low
VCE_EL_NLIMH	9	92	0..127	C-2..G8	elem. note limit high
VCE_EL_VLIML	10	93	1..127	1..127	elem. vel limit low
VCE_EL_VLIMH	11	94	1..127	1..127	elem. vel limit high
VCE_EL_VOLRNG	12	95	0..127	0..127	elem. expression low limit
VCE_EL_CTRL	13	96,97	b0.. ..b6	AT,PB,MW,Sus, FC,MC1,MC2	elem. controllers sw
VCE_EL_VPEGTMP	14	98	0.40	0..40	elem. PEG template
VCE_EL_VPEGAR	15	99	0..127	-63..+63 (2's)	elem. PEG attack
VCE_EL_VPEGD1R	16	100	0..127	-63..+63 (2's)	elem. PEG decay1
VCE_EL_VPEGD2R	17	101	0..127	-63..+63 (2's)	elem. PEG decay2
VCE_EL_VPEGRR	18	102	0..127	-63..+63 (2's)	elem. PEG release
VCE_EL_VPEGLVL	19	103	0..127	-63..+63 (2's)	elem. PEG sens
VCE_EL_VPEGVEL	20	104	0..127	-14..+14 (2's)	elem. PEG vel sens.
reserved	-	105			reserved
VCE_EL_VAEGTMP	22	106	0..39	0..39	elem. AEG template
VCE_EL_VAEGAR	23	107	0..127	-63..+63 (2's)	elem. AEG attack
VCE_EL_VAEGD1R	24	108	0..127	-63..+63 (2's)	elem. AEG decay1
VCE_EL_VAEGD2R	25	109	0..127	-63..+63 (2's)	elem. AEG decay2
VCE_EL_VAEGRR	26	110	0..127	-63..+63 (2's)	elem. AEG release
reserved	-	111			reserved
VCE_EL_VAEGVEL	28	112	0..127	-14..+14 (2's)	elem. AEG vel sens.
reserved	-	113			reserved
VCE_EL_VFEGTMP	30	114	0..59	0..59	elem. FEG template
VCE_EL_VFEGAR	31	115	0..127	-63..+63 (2's)	elem. FEG attack
VCE_EL_VFEGD1R	32	116	0..127	-63..+63 (2's)	elem. FEG decay1
VCE_EL_VFEGD2R	33	117	0..127	-63..+63 (2's)	elem. FEG decay2
VCE_EL_VFEGRR	34	118	0..127	-63..+63 (2's)	elem. FEG release
reserved	-	119			reserved
VCE_EL_VFEGVEL	36	120	0..127	-14..+14 (2's)	elem. band width vel sens.
VCE_EL_VFVEL	37	121,122	0..255	-127..+127(2's)	elem. filter vel sens.
VCE_EL_VFC	38	123,124	0..255	-127..+127(2's)	elem. filter Fc
VCE_EL_VFRES	39	125,126	0..255	-99..+99 (2's)	elem. filter reso/band
VCE_EL_VLFTMP	40	127	0..33	0..33	elem. LFO template
VCE_EL_VLFSPD	41	128,129	0..255	-99..+99 (2's)	elem. LFO speed
VCE_EL_VLFDLY	42	130,131	0..255	-99..+99 (2's)	elem. LFO delay
VCE_EL_VLFPMD	43	132,133	0..255	-99..+99 (2's)	elem. LFO PMD
VCE_EL_VLFAMD	44	134,135	0..255	-99..+99 (2's)	elem. LFO AMD
VCE_EL_VLFFMD	45	136,137 138..195 196..253 254..312	0..255	-99..+99 (2's)	elem. LFO FMD

(3) MIDI Parameter Change table (Drum Voice)

\$F0,\$43,\$1n,\$33,\$02,sub_group,p_msb,p_lsb,v_msb,v_lsb,\$F7

NOTES: n: Device Number
 s: parameter sub group number
 cccceee
 c: 0..15; Inst Channel (1..16)
 e: 1; key data, 0;common data
 p: parameter number
 p_msb = key number (e=0:0, e=1:24..96) C0..C6
 p_lsb = parameter number (e=0:0..51, e=1: 0..11)
 v: parameter value

1.COMMON e=0, p_msb=0

PARAMETER	PARAMETER NUMBER	BULK NUMBER	DATA RANGE	DISPLAY	NOTES
VCE_NAME0	0	0	32..127	ASCII	voice name top
VCE_NAME1	1	1	32..127	ASCII	voice name
VCE_NAME2	2	2	32..127	ASCII	voice name
VCE_NAME3	3	3	32..127	ASCII	voice name
VCE_NAME4	4	4	32..127	ASCII	voice name
VCE_NAME5	5	5	32..127	ASCII	voice name
VCE_NAME6	6	6	32..127	ASCII	voice name
VCE_NAME7	7	7	32..127	ASCII	voice name
VCE_NAME8	8	8	32..127	ASCII	voice name
VCE_NAME9	9	9	32..127	ASCII	voice name bottom
VCE_CTGRY1	10	10	0..20	..Co	category
reserved	-	11			reserved
reserved	-	12			reserved
reserved	-	13			reserved
reserved	-	14,15			reserved
VCE_EF_LVL1	16	16	0..100	0..100	ins effect wet level1
VCE_EF_LVL2	17	17	0..100	0..100	ins effect wet level2
VCE_EF_LVL3	18	18	0..100	0..100	ins effect dry level1
VCE_EF_LVL4	19	19	0..100	0..100	ins effect dry level2
VCE_EF_PRM1	20	20,21	0..???	??? (14bit)	ins effect param1
VCE_EF_PRM2	22	22,23	0..???	??? (14bit)	ins effect param2
VCE_EF_PRM3	24	24,25	0..???	??? (14bit)	ins effect param3
VCE_EF_PRM4	26	26,27	0..???	??? (14bit)	ins effect param4
VCE_EF_PRM5	28	28,29	0..???	??? (14bit)	ins effect param5
VCE_EF_PRM6	30	30,31	0..???	??? (14bit)	ins effect param6
VCE_EF_PRM7	32	32,33	0..???	??? (14bit)	ins effect param7
VCE_EF_PRM8	34	34,35	0..???	??? (14bit)	ins effect param8
VCE_EF_DEV	36	36	0,1	auto off/auto on	ins effect mode
VCE_EF_PRM	37	37	0..12	off,1..12	effect ctrl parameter
VCE_EF_PRMMIN	38	38	0..100	0..100	effect ctrl min limit
VCE_EF_PRMMAX	39	39	0..100	0..100	effect ctrl max limit
VCE_EF_TYPE	40	40	1..35	1..35	ins effect type
VCE_MC1_DEV	41	41	0..119	off,1..119	mc1 device#
VCE_MC1_PRM	42	42	0..4	0..4	mc1 parameter
VCE_MC1_PRMMIN	43	43	0..100	0..100	mc1 parameter min limit
VCE_MC1_PRMMAX	44	44	0..100	0..100	mc1 parameter max limit
VCE_MC2_DEV	45	45	0..119	off,1..119	mc2 device#
VCE_MC2_PRM	46	46	0..4	0..4	mc2 parameter
VCE_MC2_PRMMIN	47	47	0..100	0..100	mc2 parameter min limit
VCE_MC2_PRMMAX	48	48	0..100	0..100	mc2 parameter max limit
VCE_SYSEF1	49	49	0..127	0..127	sys effect send1
VCE_SYSEF2	50	50	0..127	0..127	sys effect send2
VCE_SYSEF3	51	51	0..127	0..127	sys effect send3
VCE_VOL	52	52	0..127	0..127	voice total level
VCE_VOLRNG	53	53	0..127	0..127	volume low limit
reserved	-	54,55			reserved

2. KEY e=1, p_msb=24..96 (key number C0-C6)

PARAMETER	PARAMETER NUMBER	BULK NUMBER	DATA RANGE	DISPLAY	NOTES
DRM_KEY_BANK	0	54,55	b0..b3 b4 b5 b6 b7	ext,int,sng, pre1,pre2.. off,on	elem. mem bank reserved reverse switch reserved reserved
DRM_KEY_NUM	1	56,57	0..255	1..256	element number
DRM_KEY_VOL	2	58	0..127	0..127	volume
DRM_KEY_PAN	3	59	1..64	L31..R31 (ob)	pan
DRM_KEY_TUNE	4	60	1..127	-63..+63 (ob)	tune
DRM_KEY_NSFT	5	61	1..127	-63..+63 (ob)	note shift
DRM_KEY_SYSEF12	6	62,63	b0..b3 b4..b7	0..15 0..15	sys effect send1 sys effect send2
DRM_KEY_SYSEF3A	7	64,65	b0..b3 b4..b7	0..15 off,1..4	sys effect send3 alternate group
DRM_KEY_AEG	8	66,67 68..81 82..95 1062..1075	b0..b4 b5..b7	0..31 1..8	decay/release rate gatetime

(4) MIDI Parameter Change table (Element)

\$F0,\$43,\$1n,\$33,\$00,sub_group,p_msb,p_lsb,v_msb,v_lsb,\$F7

NOTES: n: Device Number

s: parameter sub group number

ccccccc

c: 0..15; Inst Channel (1..16)

e: 1..4 ; Element Number

p: parameter number (49..161)

v: parameter value

PARAMETER	PARAMETER NUMBER	BULK NUMBER	DATA RANGE	DISPLAY	NOTES
ELM_NAME1	49	0	32..127	ASCII	elem. name top
ELM_NAME2	50	1	32..127	ASCII	elem. name
ELM_NAME3	51	2	32..127	ASCII	elem. name
ELM_NAME4	52	3	32..127	ASCII	elem. name
ELM_NAME5	53	4	32..127	ASCII	elem. name
ELM_NAME6	54	5	32..127	ASCII	elem. name
ELM_NAME7	55	6	32..127	ASCII	elem. name
ELM_NAME8	56	7	32..127	ASCII	elem. name bottom
ELM_CTGRY	57	8	b0 b1..b5Co	reserved elem. category
reserved	-	9,10			reserved
reserved	-	11			reserved
reserved	-	12			reserved
ELM_WAVEBNK	87	13	b0,b1 b2	1,2,E off/on	wave data bank reverse switch
ELM_WAVE	88	14,15	0..197	0..197	wave number
reserved	-	16..19			reserved
ELM_PEGR1	92	20	0..63	0..63	rate1
ELM_PEGR	93	21	0..63	0..63	rate2
ELM_PEGR3	94	22	0..63	0..63	rate3
ELM_PEGRR1	95	23	0..63	0..63	release rate1
ELM_PEGRL0	96	24	1..127	-63..+63 (ob)	level0
ELM_PEGRL1	97	25	1..127	-63..+63 (ob)	level1
ELM_PEGRL2	98	26	1..127	-63..+63 (ob)	level2
ELM_PEGRL3	99	27	1..127	-63..+63 (ob)	level3
ELM_PEGRL1	00	28	1..127	-63..+63 (ob)	release level1

PARAMETER	PARAMETER NUMBER	BULK NUMBER	DATA RANGE	DISPLAY	NOTES
ELM_PEGRANGE	101	29	b0..3 b4,b5 b6	-7..+7 (sm) 1/8,1/2,1,2 off/on	rate scaling range loop switch
ELM_PEGVELSNS	102	30,31	b0..b3 b4..b7	-7..+7 (sm) -7..+7 (sm)	velocity sens. rate vel sens.
reserved	-	32			reserved
ELM_LFSPD	104	33	0..99	0..99	speed
ELM_LFDLY	105	34	0..99	0..99	delay time
ELM_LFPMOD	106	35	0..127	0..127	pmod depth
ELM_LFAMOD	107	36	0..127	0..127	amod depth
ELM_LFFMOD	108	37	0..127	0..127	fmod depth
ELM_LFWAVE	109	38	0.5	tr..S/H	wave
ELM_LFPHS	110	39,40	0..180	0..180	phase
ELM_LFSSSENS	111	41	b0..b3 b4..b6	-7..+7 (sm) 0..7	lfo speed velocity sens. lfo speed random sens.
ELM_LFSSCL	112	42	b0..b3	-7..+7 (sm)	lfo speed key scaling
reserved	-	43			reserved
ELM_AEGMODE	114	44	b0..b3 b4 b6	-7..+7 (sm) 0 attack,hold	rate scaling reserved mode
ELM_AEGR1	115	45	0..63	0..63	rate1 or hold time
ELM_AEGR2	116	46	0..63	0..63	rate2
ELM_AEGR3	117	47	0..63	0..63	rate3
ELM_AEGR4	118	48	0..63	0..63	rate4
ELM_AEGRR	119	49	0..63	0..63	release rate
ELM_AEGL2	120	50	0..63	0..63	level2
ELM_AEGL3	121	51	0..63	0..63	level3
ELM_ASBP1	122	52	0..124	C-2..E8	level scaling break point1
ELM_ASBP2	123	53	1..125	C#-2..F8	level scaling break point2
ELM_ASBP3	124	54	2..126	D-2..F#8	level scaling break point3
ELM_ASBP4	125	55	3..127	D#-2..G8	level scaling break point4
ELM_ASLV1	126	56,57	1..255	-127..+127(ob)	level scaling level1
ELM_ASLV2	127	58,59	1..255	-127..+127(ob)	level scaling level2
ELM_ASLV3	128	60,61	1..255	-127..+127(ob)	level scaling level3
ELM_ASLV4	129	62,63	1..255	-127..+127(ob)	level scaling level4
ELM_AEGVELSNS	130	64,65	b0..b3 b4..b7	-7..+7 (sm) -7..+7 (sm)	velocity sens. rate velocity sens.
reserved	-	66			reserved
ELM_FTYPE12	132	67	b0..b2 b3 b4 b5 b6	THRU..LPF12 attack,shift 0 0; eg,1 lfo 0	filter type velocity sens type reserved filter control source reserved
ELM_FRES	133	68	0..99	0..99	resonance(2lpf only)
ELM_FVSENS134		69	0..127	-63..+63 (sm)	on vel sens
reserved	-	70			reserved
ELM_FVSENSRATE	136	71	0..127	-63..+63 (sm)	attack rate vel sens
ELM_FVSENSBAND	137	72	0..127	-63..+63 (sm)	band width vel sens ※
ELM_FBAND	138	73	0..127	0..127	Fc Band Width
ELM_FC	139	74	0..127	0..127	cutoff freq.
ELM_FEGR1	140	75	0..63	0..63	rate1
ELM_FEGR2	141	76	0..63	0..63	rate2
ELM_FEGR3	142	77	0..63	0..63	rate3
ELM_FEGR4	143	78	0..63	0..63	rate4
ELM_FEGR1	144	79	0..63	0..63	release rate1
ELM_FEGR2	145	80	0..63	0..63	release rate2
ELM_FEGL0	146	81	1..127	-63..+63 (ob)	level0
ELM_FEGL1	147	82	1..127	-63..+63 (ob)	level1
ELM_FEGL2	148	83	1..127	-63..+63 (ob)	level2
ELM_FEGL3	149	84	1..127	-63..+63 (ob)	level3
ELM_FEGL4	150	85	1..127	-63..+63 (ob)	level4
ELM_FEGL1	151	86	1..127	-63..+63 (ob)	release level1
ELM_FEGL2	152	87	1..127	-63..+63 (ob)	release level2
ELM_FEGRS	153	88	b0..b3	-7..+7 (sm)	rate scaling
ELM_FSBP1	154	89	0..124	C-2..E8	coff scale break point1
ELM_FSBP2	155	90	1..125	C#-2..F#8	coff scale break point2

PARAMETER	PARAMETER NUMBER	BULK NUMBER	DATA RANGE	DISPLAY	NOTES
ELM_FSBP3	156	91	2..126	D-2..F8	coff scale break point3
ELM_FSBP4	157	92	3..127	D#-2..G8	coff scale break point4
ELM_FSFC1	158	93,94	1..255	-127..+127(ob)	cutoff scaling freq1
ELM_FSFC2	159	95,96	1..255	-127..+127(ob)	cutoff scaling freq2
ELM_FSFC3	160	97,98	1..255	-127..+127(ob)	cutoff scaling freq3
ELM_FSFC4	161	99,100	1..255	-127..+127(ob)	cutoff scaling freq4

(5) MIDI Parameter Change table (Setup)

\$F0,\$43,\$1n,\$33,\$07,sub_group,p_msb,p_lsb,v_msb,v_lsb,\$F7

NOTES: n: Device Number

s: parameter sub group number = 0

p: parameter number

v: parameter value

1. SYSTEM s=0

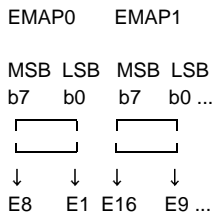
PARAMETER	PARAMETER NUMBER	BULK NUMBER	DATA RANGE	DISPLAY	NOTES
					Greeting Message
SYS_GRTU00	0	0	32..127	ASCII	upper 0
SYS_GRTU11	1	1	32..127	ASCII	upper 1
SYS_GRTU22	2	2	32..127	ASCII	upper 2
SYS_GRTU33	3	3	32..127	ASCII	upper 3
SYS_GRTU44	4	4	32..127	ASCII	upper 4
SYS_GRTU55	5	5	32..127	ASCII	upper 5
SYS_GRTU66	6	6	32..127	ASCII	upper 6
SYS_GRTU77	7	7	32..127	ASCII	upper 7
SYS_GRTU88	8	8	32..127	ASCII	upper 8
SYS_GRTU99	9	9	32..127	ASCII	upper 9
SYS_GRTU10	10	10	32..127	ASCII	upper 10
SYS_GRTU11	11	11	32..127	ASCII	upper 11
SYS_GRTU12	12	12	32..127	ASCII	upper 12
SYS_GRTU13	13	13	32..127	ASCII	upper 13
SYS_GRTU14	14	14	32..127	ASCII	upper 14
SYS_GRTU15	15	15	32..127	ASCII	upper 15
SYS_GRTU16	16	16	32..127	ASCII	upper 16
SYS_GRTU17	17	17	32..127	ASCII	upper 17
SYS_GRTU18	18	18	32..127	ASCII	upper 18
SYS_GRTU19	19	19	32..127	ASCII	upper 19
SYS_GRTL0	20	20	32..127	ASCII	lower 0
SYS_GRTL1	21	21	32..127	ASCII	lower 1
SYS_GRTL2	22	22	32..127	ASCII	lower 2
SYS_GRTL3	23	23	32..127	ASCII	lower 3
SYS_GRTL4	24	24	32..127	ASCII	lower 4
SYS_GRTL5	25	25	32..127	ASCII	lower 5
SYS_GRTL6	26	26	32..127	ASCII	lower 6
SYS_GRTL7	27	27	32..127	ASCII	lower 7
SYS_GRTL8	28	28	32..127	ASCII	lower 8
SYS_GRTL9	29	29	32..127	ASCII	lower 9
SYS_GRTL10	30	30	32..127	ASCII	lower 10
SYS_GRTL11	31	31	32..127	ASCII	lower 11
SYS_GRTL12	32	32	32..127	ASCII	lower 12
SYS_GRTL13	33	33	32..127	ASCII	lower 13
SYS_GRTL14	34	34	32..127	ASCII	lower 14
SYS_GRTL15	35	35	32..127	ASCII	lower 15
SYS_GRTL16	36	36	32..127	ASCII	lower 16
SYS_GRTL17	37	37	32..127	ASCII	lower 17
SYS_GRTL18	38	38	32..127	ASCII	lower 18
SYS_GRTL19	39	39	32..127	ASCII	lower 19

ppppppp	Sw Num	NOTES	ppppppp	Sw Num	NOTES
0	SW1	[SONG]	35	SW36	[PF6]
1	SW2	[VOICE]	36	SW37	[PF7]
2	SW3	[EDIT]	37	SW38	[PF8]
3	SW4	[UTILITY]	38	W39	[EXIT]
4	SW5	[JOB]	39	SW40	[←]
5	SW6	[DISK]	40	W41	[↓]
6	SW7	[RECORD]	41	SW42	[→]
7	SW8	[STOP/TOP]	42	W43	[DEC]
8	SW9	[RUN]	43	W44	[↑]
9	SW10	[STORE]	44	SW45	[INC]
10	SW11	[SELECT]	45	SW39	[EXIT]
11	SW12	[VOICE EDIT]	46	SW46	[JOG]
12	SW13	[SOLO]	47	SW47	[0]
13	SW14	[TR1]	48	SW48	[-]
14	SW15	[TR2]	49	W49	[ENTER]
15	SW16	[TR3]	50	W50	[1]
16	SW17	[TR4]	51	SW51	[2]
17	SW18	[TR5]	52	SW52	[3]
18	SW19	[TR6]	53	SW53	[4]
19	SW20	[TR7]	54	SW54	[5]
20	SW21	[TR8]	55	W55	[6]
21	SW22	[TR9]	56	W56	[7]
22	SW23	[TR10]	57	SW57	[8]
23	SW24	[TR11]	58	SW58	[9]
24	SW25	[TR12]	59	SW59	[CANCEL]
25	SW26	[TR13]	60	SW60	[<<<<]
26	SW27	[TR14]	61	SW61	[<<<]
27	SW28	[TR15]	62	SW62	[<<]
28	SW29	[TR16]	63	SW63	[<]
29	SW30	[SHIFT]	64	SW64	[OFF]
30	SW31	[PF1]	65	SW65	[>]
31	SW32	[PF2]	66	SW66	[>>]
32	SW33	[PF3]	67	SW67	[>>>]
33	SW34	[PF4]	68	SW68	[>>>>]
34	SW35	[PF5]	127	SWRST	RESET

(7) Element Used Map Bulk Dump

PARAMETER	PARAMETER NUMBER	BULK NUMBER	DATA RANGE	DISPLAY	NOTES
SYS_EMAP0	-	0,1	0..255		element 1- 8
SYS_EMAP1	-	2,3	0..255		element 9- 16
SYS_EMAP2	-	4,5	0..255		element 17- 24
SYS_EMAP3	-	6,7	0..255		element 25- 32
SYS_EMAP4	-	8,9	0..255		element 33- 40
SYS_EMAP5	-	10,11	0..255		element 41- 48
SYS_EMAP6	-	12,13	0..255		element 49- 56
SYS_EMAP7	-	14,15	0..255		element 57- 64
SYS_EMAP8	-	16,17	0..255		element 65- 72
SYS_EMAP9	-	18,19	0..255		element 73- 80
SYS_EMAP10	-	20,21	0..255		element 81- 88
SYS_EMAP11	-	22,23	0..255		element 89- 96
SYS_EMAP12	-	24,25	0..255		element 97-104
SYS_EMAP13	-	26,27	0..255		element 105-112
SYS_EMAP14	-	28,29	0..255		element 113-120
SYS_EMAP15	-	30,31	0..255		element 121-128

LSB for each byte is low number



Function ...	Transmitted	Recognized	Remarks
Basic Default	1 - 16	1 - 16	memorized
Channel Changed	1 - 16	1 - 16	
Mode Default	3	3	memorized
Mode Messages	x	x	
Mode Altered	*****	x	
Note Number : True voice	0 - 127 *****	0 - 127 1 - 127	
Velocity Note ON	o 9nH,v=1-127	o v=1-127	
Velocity Note OFF	x 9nH,v=0	x	
After Touch Key's	x	x	
After Touch Ch's	o	o	
Pitch Bender	o	o 0-12 semi	7 bit resolution
Control	0,32 o *2 1 o M.Wheel 4 o Foot cont. 6 x 7 o Foot volume	o *2 o o o	Bank Select Volume Pan
Change	10 x 11 o Foot volume 64 o Sustain sw. 84 x 91 x 93 x 94 x 1-31,33-119 o CS 120 x 121 x	o o o o o o o o o o	Sustain Porta Cont. Effect Send1 Effect Send2 Effect Send3 Assignable All Sounds Off Reset All Cont.
Prog Change : True #	o 0-127 *3 *****	o 0-127 *3	
System Exclusive	o *1	o *1	voice etc.
Common : Song Pos Common : Song Sel Common : Tune	See the sequencer part.		
System :Clock Real Time :Commands			
Aux :Local ON/OFF	x	x	
Aux :All Notes OFF	x	o	
Mes- :Active Sense	o	o	
sages:Reset	x	x	
Note *1	; transmit/receive if device No is not off.		
Note *2	; transmit/receive if program sw is on.		
Note *3	; transmit/receive if program sw is not off.		

Mode 1 : OMNI ON, POLY Mode 2 : OMNI ON, MONO o : Yes
 Mode 3 : OMNI OFF, POLY Mode 4 : OMNI OFF, MONO x : No

Function ...	Transmitted	Recognized	Remarks
Basic Default	1 - 16	1 - 16	memorized
Channel Changed	1 - 16	1 - 16	
Mode	Default	x	
	Messages	x	
	Altered	*****	x
Note Number : True voice	0 - 127 *****	0 - 127	
Velocity Note ON	<input type="radio"/> 9nH, v=1-127	<input type="radio"/> v=1-127	
Velocity Note OFF	<input checked="" type="radio"/> 9nH, v=0	<input checked="" type="radio"/>	
After Touch	<input type="radio"/> Key's <input type="radio"/> Ch's	<input type="radio"/>	*6 *6
Pitch Bender	<input type="radio"/>	<input type="radio"/>	
Control Change	<input type="radio"/> 0,32 <input type="radio"/> 1 - 31,33 - 121	<input checked="" type="radio"/> *3 <input type="radio"/>	<input type="radio"/> *10 <input type="radio"/>
		<input checked="" type="radio"/> *5	<input checked="" type="radio"/> *7
Prog Change : True #	<input type="radio"/> 0 - 127 *****	<input checked="" type="radio"/> *4	<input type="radio"/> 0 - 127 *9
System Exclusive	<input type="radio"/>	<input type="radio"/>	*8 Song data etc.
System : Song Pos	<input type="radio"/>	<input checked="" type="radio"/> *2	<input type="radio"/> *2 except REC mode
System : Song Sel	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/> *2
Common : Tune	<input checked="" type="radio"/>	<input checked="" type="radio"/>	
System : Clock	<input type="radio"/>	<input checked="" type="radio"/> *2	<input type="radio"/> *1
Real Time : Commands	<input type="radio"/>	<input checked="" type="radio"/> *2	<input type="radio"/> *2
Aux : Local ON/OFF	<input type="radio"/>	<input type="radio"/>	
Aux : All Notes OFF	<input checked="" type="radio"/>	<input checked="" type="radio"/>	
Mes- : Active Sense	<input type="radio"/>	<input checked="" type="radio"/>	
sages : Reset	<input checked="" type="radio"/>	<input checked="" type="radio"/>	
Notes: *1 = receive in MIDI sync mode. *2 = transmit/receive if MIDI control is not off. *3 = transmit if playback filter bank select is not ignore. *4 = transmit if playback filter program change is not ignore. *5 = transmit if playback filter control change is not ignore. *6 = receive if record filter after touch is not ignore. *7 = receive if record filter control change is not ignore. *8 = receive if record filter system exclusive is not ignore. *9 = receive if program switch is not off. *10 = receive if program switch is on.			

Mode 1 : OMNI ON, POLY Mode 2 : OMNI ON, MONO o : Yes
 Mode 3 : OMNI OFF, POLY Mode 4 : OMNI OFF, MONO x : No

USER VOICE PARAMETER LIST

User-Voice-Parameter-Liste
Liste des Paramètres des Sonorités de l'Utilisateur

			EL1	EL2	EL3	EL4
Com(Common)	Vol	Category				
		Volume				
	Name	Voice Name				
Elem(Element)	Assign	Elem Bank				
		Elem Number				
	Pan	Pan				
	VelL	Velocity Limit Low				
		Velocity Limit High				
	NtL	Note Limit Low				
Note Limit High						
Amp(Amplitude)	Level	Vel Sens				
		Level				
	EG	Template Type				
		Attack				
		Decay1				
		Decay2				
Release						
Filter	Tone	Cutoff				
		Reso(LPF)/Band(BPF,BEF)				
		Vel Sens				
		Vel Band Sens(BPF,BEF)				
	EG	Template Type				
		Attack				
		Decay1				
		Decay2				
Release						
Pitch	Scale	Scale				
	Tune	Random				
		Tune				
	Shift	Fix(on/off)				
		Note/Shift				
	Sens	Vel Sens				
		EG				
	EG	Template Type				
		Attack				
		Decay1				
Decay2						
Release						
Efct(Effect)	SysEF	EF1 Voice Send Level				
		EF2 Voice Send Level				
		EF3 Voice Send Level				
	Type	Type				
		Wet:Dry 1				
		Wet:Dry 2				
EF Mode						

			EL1	EL2	EL3	EL4
Efct(Effect)	Param	Param#1				
		Param#2				
		Param#3				
		Param#4				
		Param#5				
		Param#6				
		Param#7				
		Param#8				
	Ctrl	Parameter				
		Min				
		Max				
LFO	Param	Template Type				
		Speed				
		Delay				
	Mod	AMD				
		FMD				
		PMD				
Ctrl(Controller)	Sus	Sustain				
		ExpLLmt				
	PB	PB(on/off)				
		PB Range				
		AT P.Bend				
	AT	AT(on/off)				
		EG Bias				
		Cutoff				
		AMD				
		PMD				
		FMD				
		MW	MW(on/off)			
	EG Bias					
	Cutoff					
	AMD					
	PMD					
	FMD					
	FC	FC(on/off)				
		EG Bias				
		Cutoff				
		AMD				
		PMD				
		FMD				
	MC1	MC1(on/ff)				
		By				
		To				
		Min				
		Max				
	MC2	MC2(on/off)				
		By				
To						
Min						
Max						

			EL1	EL2	EL3	EL4
Com(Common)	Vol	Category				
		Volume				
	Name	Voice Name				
Elem(Element)	Assign	Elem Bank				
		Elem Number				
	Pan	Pan				
	VelL	Velocity Limit Low				
		Velocity Limit High				
	NtL	Note Limit Low				
Note Limit High						
Amp(Amplitude)	Level	Vel Sens				
		Level				
	EG	Template Type				
		Attack				
		Decay1				
		Decay2				
Release						
Filter	Tone	Cutoff				
		Reso(LPF)/Band(BPF,BEF)				
		Vel Sens				
		Vel Band Sens(BPF,BEF)				
	EG	Template Type				
		Attack				
		Decay1				
		Decay2				
Release						
Pitch	Scale	Scale				
	Tune	Random				
		Tune				
	Shift	Fix(on/off)				
		Note/Shift				
	Sens	Vel Sens				
		EG				
	EG	Template Type				
		Attack				
		Decay1				
Decay2						
Release						
Efct(Effect)	SysEF	EF1 Voice Send Level				
		EF2 Voice Send Level				
		EF3 Voice Send Level				
	Type	Type				
		Wet:Dry 1				
		Wet:Dry 2				
		EF Mode				

			EL1	EL2	EL3	EL4
Efct(Effect)	Param	Param#1				
		Param#2				
		Param#3				
		Param#4				
		Param#5				
		Param#6				
		Param#7				
		Param#8				
	Ctrl	Parameter				
		Min				
Max						
LFO	Param	Template Type				
		Speed				
		Delay				
	Mod	AMD				
		FMD				
		PMD				
Ctrl(Controller)	Sus	Sustain				
		ExpLLmt				
	PB	PB(on/off)				
		PB Range				
		AT P.Bend				
	AT	AT(on/off)				
		EG Bias				
		Cutoff				
		AMD				
		PMD				
		FMD				
	MW	MW(on/off)				
		EG Bias				
		Cutoff				
		AMD				
		PMD				
		FMD				
	FC	FC(on/off)				
		EG Bias				
		Cutoff				
		AMD				
		PMD				
		FMD				
	MC1	MC1(on/ff)				
		By				
		To				
		Min				
Max						
MC2	MC2(on/off)					
	By					
	To					
	Min					
	Max					