
sx-WSA1/sx-WSA1R REFERENCE GUIDE

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ROM1 SOUND

Sound	MIDI Program change No.					Sound	MIDI Program change No.				
	Normal		Technics		GM		Normal		Technics		GM
	No.	Bank	Data	Bank			No.	Bank	Data	Bank	
PIANO						SPECIAL PERC.					
Piano	1	0	1	0	1	Banjo	33	0	34	0	106
WSA Piano	2	0	3	64		Mandolin	34	0	36	0	
Rock Piano	3	0	4	32	2	Harp	35	0	33	0	47
Honky-Tonk Piano	4	0	2	16	4	Orchestra Hit 1	36	0	128	16	56
Electric Grand	5	0	4	0	3	Orchestra Hit 2	37	0	128	32	
Midi Grand 1	6	0	1	32		Timpani	38	0	127	0	48
Midi Grand 2	7	0	1	64		Music Box	39	0	8	0	11
Jangle Piano	8	0	2	48		Christmas Piano	40	0	8	32	
E.PIANO						GUITAR 1					
E.Piano 1	9	0	6	0	5	Classical Guitar	41	0	21	0	
E.Piano 2	10	0	6	32		Spanish Guitar	42	0	21	16	
Suitcase E.P.	11	0	5	32		Jazz Ac.Guitar	43	0	22	0	25
Tremolo E.Piano	12	0	5	64		Guitar Harmonics	44	0	28	64	
Modern E.P.1	13	0	7	0	6	Folk Guitar	45	0	23	0	26
Modern E.P.2	14	0	5	0		12 String Guitar	46	0	24	0	
Modern E.P.3	15	0	7	48		ElectroAc.Guitar	47	0	26	32	
Bell Piano	16	0	117	16		Square Guitar	48	0	27	112	
HARPSI. & MALLET						GUITAR 2					
Harpsichord	17	0	17	0	7	Jazz Guitar 1	49	0	26	0	27
Clavi	18	0	18	0	8	Jazz Guitar 2	50	0	25	0	
Synth Clavi	19	0	116	0		Bright Solid Gtr	51	0	27	0	28
Glockenspiel	20	0	10	0	10	Mellow Solid Gtr	52	0	29	0	
Vibraphone	21	0	9	0	12	Clean Solid Gtr	53	0	27	16	
Marimba	22	0	11	0	13	Fusion Solid Gtr	54	0	29	32	
Xylophone	23	0	12	0	14	Mute Guitar	55	0	30	0	29
Celeste	24	0	13	0	9	Funk Mute Guitar	56	0	30	48	
SPECIAL MALLET						GUITAR 3					
Steel Drum	25	0	16	0	115	Distortion Gtr 1	57	0	31	0	31
Power Steel Drum	26	0	16	16		Distortion Gtr 2	58	0	31	64	
Tubular Bells	27	0	15	0	15	Overdrive Guitar	59	0	28	32	30
Tinkle Bell	28	0	15	32	113	Rock Harmonics	60	0	28	16	32
Bottle Marimba	29	0	14	0		Synth Solid Gtr	61	0	27	32	
African Mallet	30	0	114	0		Country Guitar	62	0	32	16	
Caribbean Mallet	31	0	12	16		Hawaiian Guitar1	63	0	32	48	
Synth Glocken	32	0	10	32	99	Hawaiian Guitar2	64	0	32	0	

ROM1 SOUND

Sound	MIDI Program change No.					Sound	MIDI Program change No.				
	Normal		Technics		GM		Normal		Technics		GM
	No.	Bank	Data	Bank			No.	Bank	Data	Bank	
STRINGS 1						PIPE & ACCORDION					
SymphonicStrings	65	0	101	48		Pipe Organ 1	97	0	85	0	20
ClassicalStrings	66	0	101	0	49	Pipe Organ 2	98	0	86	0	
Marcato Strings	67	0	101	64		Theatre Organ	99	0	88	32	
Slow Strings	68	0	102	0	50	Harmonium	100	0	87	32	21
Octave Strings	69	0	103	0		Bright Accordion	101	0	81	0	22
Bass Strings	70	0	99	16		Mellow Accordion	102	0	82	0	
Tremolo Strings	71	0	101	32	45	Musette	103	0	83	0	
Pizzicato Str.	72	0	100	0	46	Bandoneon	104	0	81	16	24
STRINGS 2						BASS 1					
Synth Strings 1	73	0	104	0	51	Acoustic Bass	105	0	44	0	33
Synth Strings 2	74	0	104	16	52	Mellow Ac.Bass	106	0	44	16	
Violin	75	0	97	0	41	Electric Bass	107	0	41	0	
Jazz Violin	76	0	97	16		Bright E.Bass	108	0	41	16	34
Fiddle	77	0	97	32	111	Fusion E.Bass	109	0	41	64	
Viola	78	0	98	32	42	Funky E.Bass	110	0	41	48	
Cello	79	0	98	0	43	Fretless Bass 1	111	0	41	32	36
Bowed Bass	80	0	99	0	44	Fretless Bass 2	112	0	41	96	
VOCAL						BASS 2					
Vocal Ah	81	0	105	48	53	Picked E.Bass	113	0	43	0	35
Pop Vocal Ah	82	0	105	0		Mute Bass	114	0	48	0	
Stereo Vocal Ah	83	0	105	64		Slap Bass 1	115	0	42	0	37
Vocal Ooh	84	0	105	32		Slap Bass 2	116	0	42	16	38
Humming	85	0	106	0		Slap Bass 3	117	0	42	32	
Vocal Doo	86	0	110	0	54	Analog Bass	118	0	47	16	
Vocal Daa	87	0	110	32		Soul Bass	119	0	43	16	
Vocal Mmm	88	0	111	0		Synth Chopper	120	0	46	0	40
ORGAN						BASS 3					
* <<<Drawbar 1>>>	89	0	94	112		Wow Bass 1	121	0	47	0	39
* <<<Drawbar 2>>>	90	0	94	96		Wow Bass 2	122	0	47	64	
Jazz Organ	91	0	89	0	18	Crossfade Bass	123	0	41	112	
Full Drawbars	92	0	90	0	17	Dance Bass	124	0	48	48	
Jazz Drawbars	93	0	94	0		House Bass	125	0	48	32	
16' & 1'	94	0	92	0		Metallic Bass	126	0	43	48	
Pop Organ	95	0	91	0		Plastic Bass	127	0	47	80	
Rock Organ	96	0	93	32	19	Dr.M Bass	128	0	47	96	

* : Drawbar sound

ROM2 SOUND

Sound	MIDI Program change No.					Sound	MIDI Program change No.				
	Normal		Technics		GM		Normal		Technics		GM
	No.	Bank	Data	Bank			No.	Bank	Data	Bank	
BRASS						REED					
Brass	1	16	57	0	62	Jazz Clarinet 1	33	16	69	0	72
Brass & Synth	2	16	57	48		Jazz Clarinet 2	34	16	69	32	
Octave Brass	3	16	57	16		Classic Clarinet	35	16	70	0	
Mute Brass Ens.	4	16	57	32		Oboe	36	16	67	0	69
Synth Brass 1	5	16	61	0	63	English Horn	37	16	68	0	70
Synth Brass 2	6	16	64	48		Bassoon	38	16	71	0	71
Synth Brass 3	7	16	63	64	64	Harmonica	39	16	84	0	
Synth Brass 4	8	16	64	64		Blues Harmonica	40	16	84	16	23
TRUMPET						FLUTE					
Trumpet 1	9	16	49	0	57	Piccolo	41	16	65	0	73
Trumpet 2	10	16	49	64		Jazz Flute	42	16	66	0	74
Mellow Trumpet	11	16	49	16		Classical Flute	43	16	66	16	
Orchest. Trumpet	12	16	49	32		Alto Flute	44	16	65	16	
Harmon Mute-Tpt	13	16	51	0	60	Flatter Flute	45	16	76	80	
Straight MuteTpt	14	16	51	16		Pan Flute	46	16	73	0	76
Flugel Horn	15	16	52	0		Synth Calliope	47	16	113	48	83
Comet	16	16	50	16		Recorder	48	16	75	0	75
DEEP BRASS						OTHER FLUTE & REED					
Bright Trombone	17	16	53	0	58	Ocarina	49	16	75	16	80
Mellow Trombone	18	16	54	0		Blown Bottle	50	16	73	32	77
CupMuteTrombone	19	16	53	48		Whistle	51	16	112	0	79
Closed Fr.Horn	20	16	55	0		Shakuhachi	52	16	76	0	78
Open Fr.Horn	21	16	55	16	61	Quena	53	16	76	16	
Fr.Horn Ens.	22	16	55	64		Ney	54	16	74	32	
Orchestral Tuba	23	16	56	0	59	Shanai	55	16	74	16	112
Marching Tuba	24	16	56	16		Bagpipe	56	16	74	0	110
SAXOPHONE						ETHNIC PERC.					
Soprano Sax	25	16	77	0	65	Koto	57	16	38	0	108
Alto Sax	26	16	78	0	66	Shamisen	58	16	37	0	107
Mellow Alto Sax	27	16	78	16		Kalimba	59	16	40	0	109
Tenor Sax	28	16	79	48	67	Metal Kalimba	60	16	40	16	
Breathy Tenor	29	16	79	16		Sitar	61	16	39	0	105
Rock Tenor Sax	30	16	80	0		Gamelan 1	62	16	15	48	
Baritone Sax	31	16	80	16	68	Gamelan 2	63	16	15	112	
Distortion Sax	32	16	79	32		Dulcimer	64	16	39	16	16

ROM2 SOUND

Sound	MIDI Program change No.					Sound	MIDI Program change No.				
	Normal		Technics		GM		Normal		Technics		GM
	No.	Bank	Data	Bank			No.	Bank	Data	Bank	
SYNTH LEAD 1						SYNTH PAD 2					
Square Lead	65	16	118	0	81	Fantasia	97	16	117	48	89
Saw Lead	66	16	119	16	82	Bell Pad	98	16	117	32	
Sine Lead	67	16	95	0		Dream	99	16	109	32	
Air Vox	68	16	107	16	86	Mist	100	16	109	48	101
Chiffer Lead	69	16	118	32	84	Sweep Pad	101	16	63	32	96
Charang	70	16	28	48	85	Halo Pad	102	16	108	48	95
Metallica Solo	71	16	116	96		Echo Drops	103	16	107	48	103
Talking Lead	72	16	118	80		Happy Ensemble	104	16	108	80	
SYNTH LEAD 2						SYNTH PAD 3					
Digi Stack	73	16	117	96		Poly Synth	105	16	103	32	91
80's Solo	74	16	122	80		Voxmosphere	106	16	62	96	
Steamy Keys	75	16	107	80		Wide Window	107	16	62	112	
Olymp Synth	76	16	61	64		Dark Universe	108	16	107	64	
Voco Synth	77	16	119	32		Ice Rain	109	16	122	48	97
5th Wave	78	16	120	0	87	Soundtrack	110	16	120	16	98
Bass & Lead	79	16	47	32	88	Goblins	111	16	107	0	102
Sleigh Synth	80	16	62	64		Windy Sweep	112	16	107	96	
SYNTH LEAD 3						PERCUSSION					
Talking Synth	81	16	61	80		Agogo	113	16	123	0	114
Synth Harp	82	16	33	64		Wood Block	114	16	123	16	116
Afro Dance	83	16	12	80		Taiko Drum	115	16	124	48	117
Digi Bells	84	16	15	96		Melodic Tom	116	16	123	32	118
Fusion Lead 1	85	16	118	96		Synth Drum	117	16	125	0	119
Fusion Lead 2	86	16	118	112		Reverse Cymbal	118	16	123	48	120
Funky Lead	87	16	119	48		Talking Drum	119	16	124	64	
Sweppy	88	16	119	64		Berimbau	120	16	40	64	
SYNTH PAD 1						EFFECT					
Mellow Ensemble	89	16	108	16	90	Fret Noise	121	16	125	16	121
Warm Synth Pad	90	16	63	80		Breath Noise	122	16	125	32	122
Synth Vocal	91	16	108	0	55	Seashore	123	16	125	48	123
Spacy Pad	92	16	108	32	92	Bird Tweet	124	16	126	32	124
Metal Pad	93	16	107	32	94	Telephone	125	16	124	0	125
Star Theme	94	16	121	16	104	Helicopter	126	16	124	16	126
Bowed Glass	95	16	121	0	93	Applause	127	16	126	48	127
Atmosphere	96	16	22	48	100	Gun Shot	128	16	124	32	128

ROM DRUMS SOUND

Sound	MIDI Program change No.					Sound	MIDI Program change No.				
	Normal		Technics		GM		Normal		Technics		GM
	No.	Bank	Data	Bank			No.	Bank	Data	Bank	
DRUMS 1						DRUMS 2					
Jazz Kit	1	512	33	512		Dance Kit	9	512	27	512	
Brush Kit	2	512	41	512		House Kit	10	512	28	512	
Trad Kit	3	512	34	512		Soul Kit	11	512	26	512	
Standard Kit	4	512	1	512	GM	Electric Kit	12	512	25	512	
Room Kit	5	512	9	512		Synth Kit	13	512	30	512	
Light Rock Kit	6	512	10	512		Modeling Kit	14	512	31	512	
Power Kit	7	512	17	512		* Orchestral Kit	15	512	113	512	
Funk Kit	8	512	11	512		SoundEffectKit	16	512	121	512	

* Orchestral Kit : Data = 48 , Bank = 512 (Technics) in GM mode

MIDI BANK SELECT TABLE (Normal)

	ROM		USER		REMAP	EXT
	1	2	1	2		
SOUND	0	16	128	144	400,416,432	256
DRUM	512		640	656		
COMBINATION	0	_____	128	_____		

MIDI BANK SELECT TABLE (Technics)

	ROM		USER		REMAP	EXT
	1	2	1	2		
SOUND	0,16,32,48,64,80,96,112		128	144	_____	256
DRUM	512		640	656		
COMBINATION	0	_____	128	_____		

<< DRAWBER >> CONTROLLER ASSIGN

Pitch Bend	PITCH BEND
Modulation1	EFF2 DYNAMIC(Rotary Speaker Slow/Fast)
Modulation2	FILTER CUTOFF, LEVEL(Percussive)
After Touch	No Operation
Ctrl.Pedal	EFF2 DYNAMIC(Rotary Speaker Slow/Fast)

Realtime Creator/Controller

	X	Y
1	ATTACK TIME	LEVEL(Percussive)
2	ATTACK TIME(Quint)	LEVEL(Quint)
3	ATTACK TIME	RELEASE TIME
4	FILTER CUTOFF	FILTER RESONANCE
5	PITCH LFO1 DEPTH	AMP LFO1 DEPTH
6	EFF1 DYNAMIC	REV DYNAMIC

GM SOUND LIST

1	Piano	27	Jazz Guitar 1	53	Vocal Ah	79	Whistle	105	Sitar
2	Rock Piano	28	Bright Solid Gtr	54	Vocal Doo	80	Ocarina	106	Banjo
3	Electric Grand	29	Mute Guitar	55	Synth Vocal	81	Square Lead	107	Shamisen
4	Honky-Tonk Piano	30	Overdrive Guitar	56	Orchestra Hit 1	82	Saw Lead	108	Koto
5	E.Piano 1	31	Distortion Gtr 1	57	Trumpet 1	83	Synth Calliope	109	Kalimba
6	Modern E.P.1	32	Rock Harmonics	58	Bright Trombone	84	Chiffer Lead	110	Bagpipe
7	Harpsichord	33	Acoustic Bass	59	Orchestral Tuba	85	Charang	111	Fiddle
8	Clavi	34	Bright E.Bass	60	Harmon Mute Tpt	86	Air Vox	112	Shanai
9	Celeste	35	Picked E.Bass	61	Open Fr.Horn	87	5th Wave	113	Tinkle Bell
10	Glockenspiel	36	Fretless Bass 1	62	Brass	88	Bass & Lead	114	Agogo
11	Music Box	37	Slap Bass 1	63	Synth Brass 1	89	Fantasia	115	Steel Drum
12	Vibraphone	38	Slap Bass 2	64	Synth Brass 3	90	Mellow Ensemble	116	Wood Block
13	Marimba	39	Wow Bass 1	65	Soprano Sax	91	Poly Synth	117	Taiko Drum
14	Xylophone	40	Synth Chopper	66	Alto Sax	92	Spacy Pad	118	Melodic Tom
15	Tubular Bells	41	Violin	67	Tenor Sax	93	Bowed Glass	119	Synth Drum
16	Dulcimer	42	Viola	68	Baritone Sax	94	Metal Pad	120	Reverse Cymbal
17	Full Drawbars	43	Cello	69	Oboe	95	Halo Pad	121	Fret Noise
18	Jazz Organ	44	Bowed Bass	70	English Horn	96	Sweep Pad	122	Breath Noise
19	Rock Organ	45	Tremolo Strings	71	Bassoon	97	Ice Rain	123	Seashore
20	Pipe Organ 1	46	Pizzicato Str.	72	Jazz Clarinet 1	98	Soundtrack	124	Bird Tweet
21	Harmonium	47	Harp	73	Piccolo	99	Synth Glocken	125	Telephone
22	Bright Accordion	48	Timpani	74	Jazz Flute	100	Atmosphere	126	Helicopter
23	Blues Harmonica	49	ClassicalStrings	75	Recorder	101	Mist	127	Applause
24	Bandoneon	50	Slow Strings	76	Pan Flute	102	Goblins	128	Gun Shot
25	Jazz Ac.Guitar	51	Synth Strings 1	77	Blown Bottle	103	Echo Drops		
26	Folk Guitar	52	Synth Strings 2	78	Shakuhachi	104	Star Theme		

USER1 SOUND

Sound	MIDI Program Change No.		Sound	MIDI Program Change No.	
	No.	Bank		No.	Bank
SWEEP PAD			ENSEMBLE PAD		
Imperial Sweep	1	128	Big Synth Pad	33	128
Big Wave	2	128	Control Mel	34	128
Mysterious	3	128	Wire Lead	35	128
Hold Me Down	4	128	Omni Pad	36	128
Inner Space	5	128	Husky Pad	37	128
Crystal Space	6	128	Arco Tubes	38	128
Blade Runner	7	128	Singing Flute	39	128
On The Edge	8	128	Iron Made	40	128
EFFECT PAD 1			ATTACK PAD		
Boldly Gone	9	128	Shining Pad	41	128
A Fifth Of	10	128	Holy Bells	42	128
Absorb	11	128	Whirlywee	43	128
Time For Raunch	12	128	Bell Choir	44	128
Expensive	13	128	Oct. Con	45	128
Wings in space	14	128	Express	46	128
Wildlife	15	128	Paddox	47	128
Starburst	16	128	Sitar Pad	48	128
EFFECT PAD 2			PERCUSSIVE PAD		
Thriller	17	128	Digiti Doo	49	128
Outer Space	18	128	Soft Bells	50	128
Jarre Pad	19	128	Tinny Synth	51	128
Too Late	20	128	Palletti	52	128
Area 51	21	128	Modeled Pad	53	128
Crazy Scratch	22	128	Hammer Pad	54	128
Tunnel Vision	23	128	Whisper	55	128
Event Horizon	24	128	Beauty	56	128
STRAIGHT PAD			SYNTH PERC 1		
Work in Prog	25	128	PiazzaWah	57	128
Ooze	26	128	LA Chords	58	128
Synth "E" Vox	27	128	LA Chords Too	59	128
Warmth	28	128	Stereo Popcorn	60	128
Reedy Pad	29	128	Turn The Ball	61	128
Piccolo Pad	30	128	Anvil E.P.	62	128
Pado Con	31	128	Wurlit's Project	63	128
Venecia	32	128	Spitting Image	64	128

USER1 SOUND

Sound	MIDI Program Change No.		Sound	MIDI Program Change No.	
	No.	Bank		No.	Bank
SYNTH PERC 2			SYNTH BRASS		
80` s Fusion	65	128	Blue Synth	97	128
Sharp Saw	66	128	Sherwood	98	128
Timpbel	67	128	Wide Synth	99	128
Crash Lead	68	128	Cresc.Syn.Brass	100	128
Plucky Harp	69	128	Orpheus	101	128
Snap Lead	70	128	Jup iT TOR	102	128
Bag Bells	71	128	Punch Brass	103	128
Pop Clavi	72	128	Wow Synth Brass	104	128
SYNTH MALLET			SYNTH STACK		
Mali Scale	73	128	Stereo Stack	105	128
Popcorn	74	128	RS Chiffy 01	106	128
Modeling Marimba	75	128	Strax 1	107	128
Metarimba	76	128	Strax 2	108	128
Hard Steel Drum	77	128	Digi Stack	109	128
Metalica	78	128	Staccato Pad	110	128
Woody Pipe	79	128	Pulse Plate	111	128
Arp Me Synth	80	128	Techno E.P.	112	128
ETHNO SYNTH			PERCUSSIVE SHOT		
Mombasa	81	128	House Hit	113	128
Kalimbla	82	128	Aggressive Pluck	114	128
Dedos	83	128	Cyber Bell	115	128
Berim Reed	84	128	Bell Percussion	116	128
Machu Pitchu 1	85	128	Zap	117	128
Machu Pitchu 2	86	128	Zap Clav	118	128
Pluck it !	87	128	Mega HPF Synth 1	119	128
Shamitouch	88	128	Mega HPF Synth 2	120	128
ANALOG SYNTH			EFFECTIVE SHOT		
Analog Polysynth	89	128	Dark Stab	121	128
Model Behavior	90	128	Ambient Pad	122	128
Padde Fettet	91	128	Blowit Scratch	123	128
Analog Touch	92	128	Modeling Hit	124	128
Analog Seq.	93	128	Third Dimension	125	128
Analogical Song	94	128	Vangelis Lead	126	128
Analog Clickswp	95	128	Fifths Fun	127	128
SAEGER	96	128	Crash	128	128

USER1 SOUND

Sound	MIDI Program Change No.		Sound	MIDI Program Change No.	
	No.	Bank		No.	Bank
DRUMS					
WSA Kit	1	640			
Twin Kit	2	640			

USER 2 SOUND

Sound	MIDI Program Change No.		Sound	MIDI Program Change No.	
	No.	Bank		No.	Bank
PIANO & PNO PAD			FUNK STAFF		
Modeling Piano	1	144	Bad Boy	33	144
AdultContemPiano	2	144	Clavi Whaw	34	144
New Movie Score	3	144	Auto Whatar	35	144
Angel Piano	4	144	Wacky Clav	36	144
E.P. Pad	5	144	Stevie 76	37	144
About Time	6	144	Modeling CLAV	38	144
Bellgano	7	144	Clavi Hell	39	144
Pianic Ensemble	8	144	Distortion Synth	40	144
E. PIANO			STRINGS		
Tired Roads	9	144	Wide Strings	41	144
More Suitcase	10	144	Just Strings	42	144
Ideal E.P.	11	144	String Section	43	144
Primolo E.Piano	12	144	Golden Strings	44	144
Whitney Who?	13	144	Film Score Pad	45	144
Dream Piano	14	144	Con Sordino	46	144
Model DX	15	144	Ice Strings	47	144
Rattle E.P.	16	144	Tremolo Strings2	48	144
ACOUSTIC GUITAR			ORGAN		
Don't Fret	17	144	Solid Organ	49	144
Blues Guitar	18	144	Street Organ	50	144
Cool Guitar	19	144	Organ.exe	51	144
Modeling Guitar	20	144	Dance Organ	52	144
On 6 Strings	21	144	Chapel Organ	53	144
Half a Guitar	22	144	Cathedral	54	144
Plate Guitar	23	144	Picture Palace	55	144
Baroque	24	144	The Continental	56	144
ELECTRIC GUITAR			VOCAL & REED		
Big Foot Guitar	25	144	Dynamic Singers	57	144
Funk a Mute	26	144	Scaty	58	144
Wow Guitar	27	144	Voice Field	59	144
Caliph Whip	28	144	Silver Voice	60	144
Grungy Guitar 1	29	144	F-Word Musette	61	144
Grungy Guitar 2	30	144	Blown Bucket	62	144
Jimi's Strat	31	144	Solo Con	63	144
Guitar Hero	32	144	Wind Lead	64	144

USER 2 SOUND

Sound	MIDI Program Change No.		Sound	MIDI Program Change No.	
	No.	Bank		No.	Bank
BRASS			DIGITAL BASS		
Big Band Unison	65	144	Sequencer Bass	97	144
Many Horns	66	144	Kickhop Bass	98	144
Mellow Flares	67	144	Synth Chop	99	144
Saturn	68	144	Drummed Bass	100	144
XPand BrassPad 1	69	144	Techno SpaceBass	101	144
XPand BrassPad 2	70	144	Aggressive Bass	102	144
Oct.Synth Brass	71	144	Bass Hit	103	144
Synthy Horns	72	144	Chaka Bass	104	144
SAX & FLUTE			PERCUSSION		
Wawatone Wax	73	144	Talko Drum	105	144
Unison Saxes	74	144	Wave Drum	106	144
Fusion Horns	75	144	Kick Buzz	107	144
Light Miller	76	144	Slitter	108	144
Mystic Flute	77	144	Darbuka-San	109	144
Blown Away	78	144	Slap Man	110	144
Melting W.Wind	79	144	Perc. Set	111	144
Like Lyle	80	144	Wave Seq	112	144
BASS			EFFECT		
Night Club Bass	81	144	Metal Voices	113	144
Phat Bass	82	144	Uh.....Yeah!?	114	144
Up Right!	83	144	Scooby Who?	115	144
Stereo Fretless	84	144	Songbird	116	144
Last Bass	85	144	Unusual	117	144
70's Funkbass	86	144	Rapids	118	144
Super Slap	87	144	Darb Down	119	144
Ragga Bass	88	144	Final Approach	120	144
ANALOG BASS			SPLIT&PEFORMANCE		
Bass Super Model	89	144	Jazz Trio	121	144
Moogybass	90	144	Bell/Pad	122	144
Square Bass	91	144	Highland Fling	123	144
Bass & Lead 2	92	144	Frog in a Suite	124	144
Daaow Bass	93	144	Delius Harp	125	144
Tea Pot	94	144	Big Band Tension	126	144
Resonant Bass	95	144	Jazz Chords	127	144
Fatbelly Bass	96	144	Casey Jones	128	144

USER 2 SOUND

Sound	MIDI Program Change No.		Sound	MIDI Program Change No.	
	No.	Bank		No.	Bank
DRUMS					
Mixup Kit	1	656			
Modeling Kit 2	2	656			

ROM DRUMS LIST

KIT name	Other Kits	Electric/Dance/Synth Kit	Brush Kit
C-2	0		
	1		
	2		
	3	Zap 1	←
	4	Electro Unison	←
	5	Electro Shot 1	←
	6	Electro Shot 2	←
	7	Zap 2	←
	8	Voice Uh	←
	9	Voice Ah	←
	10	Voice Yeh	←
	11	Ambient Hammer	←
C-1	12	Brush Long	←
	13	Brush Tap	←
	14	Hi-hat Accent	←
	15	Hi-hat Half Open	←
	16	Hi-hat Closed Off Beat	←
	17	Reverse Cymbal	←
	18	Extra Tom 3	←
	19	Extra Tom 2	←
	20	Extra Tom 1	←
	21	Reverse Snare	←
	22	Snare Drum 2	←
	23	Snare Drum 3	←
C0	24		
	25		
	26		
	27		
	28	Slap	←
	29	Scratch 1	←
	30	Scratch 2	←
	31	Rim Shot	←
	32	Square Click	←
	33	Metronome Click	←
	34	Metronome Bell	←
	35	Bass Drum 2	←
C1	36	Bass Drum 1	←
	37	Rim Shot	←
	38	Snare Drum 1	←
	39	Hand Claps	Reverse Cymbal
	40	High Snare Drum	←
	41	Bass Tom Low	←
	42	Hi-hat Closed On Beat	←
	43	Bass Tom High	←
	44	Hi-hat Pedal	←
	45	Tom 3	←
	46	Hi-hat Open	←
C2	47	Tom 2	←
	48	Tom 1	←
	49	Crash Cymbal 1	←
	50	High Tom	←
	51	Ride Cymbal 1	←
	52	China Cymbal	←
	53	Ride Bell	←
	54	Tambourine Accent	←
	55	Splash Cymbal	←
	56	Cowbell 2	←
	57	Crash Cymbal 2	←
	58	Vibraslap	←
	59	Ride Cymbal 2	←
C3	60	Bongo High Open	←
	61	Bongo Low Open	←
	62	Conga Mute Crash	←
	63	Conga High Open	←
	64	Conga Low Open	←
	65	Timbales Edge High	←
	66	Timbales Open Low	←
	67	Agogo High	←
	68	Agogo Low	←
	69	Metal Cabasa	←
	70	Maracas On Beat	←
	71	Samba Whistle Short	←

	KIT name	(*) Orchestra Kit	Sound Effect Kit	(*) GM Orchestra Kit
C-2	0			
	1			
	2			
	3			
	4			
	5			
	6			
	7			
	8			
	9			
	10			
C-1	11			
	12	Timpani C		
	13	Timpani C#		
	14	Timpani D		
	15			
	16			
	17			
	18			
	19			
	20	Brush Long		
	21	Brush Short		
	22	Hi-hat Pedal		
	23	Hi-hat Half Open		
C0	24	Hi-hat Closed On Beat		
	25	Hi-hat Closed Off Beat		
	26	Hi-hat Open		
	27	Bass Tom		Hi-hat Closed
	28	Tom 3		Hi-hat Pedal
	29	Tom 2		Hi-hat Open
	30	Tom 1		Ride Cymbal 1
	31	High Tom		Rim Shot
	32	Ride Bell		Square Click
	33	Ride Cymbal 2		Metronome Click
	34	Orchestral Snare Drum 3		Metronome Bell
	35	Orchestral Bass Drum 2		Orchestral Bass Drum 2
C1	36	Orchestral Bass Drum 1	Fret Noise	Orchestral Bass Drum 1
	37	Rim Shot	Pick Noise 1	Rim Shot
	38	Orchestral Snare Drum 1	Pick Noise 2	Orchestral Snare Drum
	39	Castanets	Pick Noise 3	Castanets
	40	Orchestral Snare Drum 2	Pick Noise 4	Orchestral Snare Drum
	41	Orchestral Cymbal 1	Sax Breath Noise	Timpani F
	42	Triangle Open	Flute Breath Noise	Timpani F#
	43	Orchestral Cymbal 2	Slap Shot	Timpani G
	44	Orchestral Tambourine	Metronome Click	Timpani G#
	45	Cymbal Soft Mallet	Metronome Bell	Timpani A
	46	Rattle	Scratch 1	Timpani A#
	47	Ride Cymbal 1	Scratch 2	Timpani B
C2	48	Wood Block Low	Zap 1	Timpani c
	49	Wood Block High	Electro Unison	Timpani c#
	50	Wood Block High 2	Electro Shot 1	Timpani d
	51	Timpani D#	Electro Shot 2	Timpani d#
	52	Timpani E	Zap 2	Timpani e
	53	Timpani F	Square Click	Timpani f
	54	Timpani F#	Slap	Orchestral Tambourine
	55	Timpani G	Ambient Hammer	Splash Cymbal
	56	Timpani G#	Orchestra Hit High	Cowbell
	57	Timpani A	Orchestra Hit Low	Orchestral Cymbal 1
	58	Timpani A#	Metal Hit High	Vibraslap
	59	Timpani B	Metal Hit Low	Orchestral Cymbal 2
C3	60	Timpani c	Crickets	Bongo High Open
	61	Timpani c#	Nutshell Tree	Bongo Low Open
	62	Timpani d	Rain stick	Conga Mute Crash
	63	Timpani d#	Temple Block	Conga High Open
	64	Timpani e	Small Bell	Conga Low Open
	65	Timpani f	Finger Cymbal High	Timbales Edge High
	66	Timpani f#	Finger Cymbal Low	Timbales Open Low
	67	Timpani g	Sleigh Bell	Agogo High
	68	Timpani g#	Wind Chime	Agogo Low
	69	Timpani a	Tam-Tam	Metal Cabasa
	70	Timpani a#	Voice Uh	Maracas
	71	Timpani b	Voice Ah	Samba Whistle Short

(*) Can be selected, when GM mode is OFF.

(*) Can be selected, when GM mode is ON.

	KIT name	Other Kits	Electric/Dance/Synth Kit	Brush Kit
C4	72	Samba Whistle Long	←	←
	73	Guiro Short	←	←
	74	Guiro Long	←	←
	75	Claves	←	←
	76	Wood Block High	←	←
	77	Wood Block Low	←	←
	78	Cuica High	←	←
	79	Cuica Low	←	←
	80	Triangle Mute	←	←
	81	Triangle Open	←	←
C5	82	Shaker On Beat	←	←
	83	Sleigh Bell	←	←
	84	Wind Chime	←	←
	85	Castanets	←	←
	86	Surdo Mute	←	←
	87	Surdo Open	←	←
	88	Orchestral Bass Drum	←	←
	89	Orchestral Snare Drum	←	←
	90	Orchestral Cymbal	←	←
	91	Nutshell Tree	←	←
C6	92	Rain Stick	←	←
	93	Shekele On Beat	←	←
	94	Bata Drum Slap	←	←
	95	Bata Drum Open	←	←
	96	Caxxi On Beat	←	←
	97	Caxxi Off Beat	←	←
	98	Darbuka Slap	←	←
	99	Darbuka Open	←	←
	100	Finger Cymbal	←	←
	101	Samba Drum On Beat	←	←
C7	102	Samba Drum Off Beat	←	←
	103	Samba Whistle High	←	←
	104	Samba Whistle Low	←	←
	105	Small Conga High	←	←
	106	Small Conga Low	←	←
	107			
	108			
	109	Cowbell 1	←	←
	110	Cowbell 3	←	←
	111	Cowbell 4	←	←
C8	112	Timbales Open High	←	←
	113	Timbales Paila	←	←
	114	Tambourine Beat	←	←
	115	Shaker Off Beat	←	←
	116	Maracas Off Beat	←	←
	117	Surdo Left Hand	←	←
	118	Shekele Off Beat	←	←
	119	Hand Claps	←	←
	120	Conga Mute On Beat	←	←
	121	Conga Mute Off Beat	←	←
C8	122	Conga Open Crash	←	←
	123	Bongo Mute 3	←	←
	124	Bongo Mute 2	←	←
	125	Bongo Mute 1	←	←
	126	Orchestral Tambourine	←	←
	127	Wood Block High 2	←	←

	KIT name	(*1) Orchestra Kit	Sound Effect Kit	(*2) GM Orchestra Kit	
C4	72	Tubular Bells C	Voice Yeh	Samba Whistle Long	
		73	Tubular Bells C#	Guiro Short	
	74	Tubular Bells D	Hand Claps	Guiro Long	
		75	Tubular Bells D#	Claves	
	76	Tubular Bells E	Applause 1	Wood Block High	
	77	Tubular Bells F	Applause 2	Wood Block Low	
		78	Tubular Bells F#	Gun Shot	Wood Block Low
	79	Tubular Bells G	Explosion	Cuica High	
		80	Tubular Bells G#	Helicopter	Cuica Low
	81	Tubular Bells A	Train	Triangle Mute	
		82	Tubular Bells A#	Steam Whistle	Triangle Open
		83	Tubular Bells B	Telephone	Shaker
C5	84	Tubular Bells c	Wave 1	Sleigh Bell	
		85	Tubular Bells c#	Wave 2	Wind Chime
	86	Tubular Bells d	Wind	Castanets	
		87	Tubular Bells d#	Bird 1	Surdo Mute
	88	Tubular Bells e	Bird 2	Surdo Open	
	89	Tubular Bells f	Bullfrog	Applause	
		90	Tubular Bells f#	Little Dog	
	91	Tubular Bells g			
		92	Tubular Bells g#		
	93	Tubular Bells a			
		94	Tubular Bells a#		
	95	Tubular Bells b			
C6	96	Tam-Tam			
		97	Tambourine Accent		
	98	Tambourine Beat			
		99	Sleigh Bell		
	100	Cowbell			
	101	Triangle Mute			
		102	Triangle Open		
	103	Wind Chime			
		104	Vibraslap		
	105				
		106			
	C7	107			
108					
		109			
110					
		111			
112					
113					
		114			
115					
		116			
117					
		118			
C8	119				
	120				
		121			
	122				
		123			
	124				
125			Click 1		
	126		Click 2		
127			Click 3		

(*1) Can be selected, when GM mode is OFF.

(*2) Can be selected, when GM mode is ON.

TONE

A	PIANO	D	SPECIAL PERCUS	G	BRASS	J	BASS
	Piano L Piano R Mono Piano BrightPiano L BrightPiano R E.Grand E.Piano 1 E.Piano 2 Suitcase E.P. Modern E.P.1 Modern E.P.2 Bell Piano		Banjo Mandolin Harp Orchestra Hit Timpani Music Box Koto Shamisen Kalimba Sitar Dulcimer Gamelan 1 Gamelan 2 Gamelan 3		Brass 1 Brass 2 Trumpet 1 Trumpet 2 Orch.Trumpet Mute Trumpet1 Mute Trumpet2 Flugel Horn Comet Brt.Trombone Mel.Trombone Mute Trombone ClosedFr.Horn Open Fr.Horn Tuba Analog Brass Saw Brass		Acoustic Bass MellowAc.Bass Electric Bass Bright E.Bass Fusion E.Bass Funky E.Bass FretlessBass1 FretlessBass2 Picked E.Bass Mute Bass Slap Bass 1 Pull Bass 1 Slap Bass 2 Pull Bass 2 Slap Bass 3 Pull Bass 3 Analog Bass Soul Bass Metalic Bass Synth Chopper Click Bass Dance Bass House Bass Plastic Bass
B	HARPSI & MALLET Harpsichord 1 Harpsichord 2 Clavi Synth Clavi Glockenspiel Vibraphone Celesta Tubular Bells Solid Bars Steel Drum Xylophone Marimba BottleMarimba AfricanMallet	E	STRINGS & VOCAL Clas.Strings1 Clas.Strings2 Marcato Str.1 Marcato Str.2 Pizzicato Violin Jazz Violin Viola Cello Bowed Bass Vocal Ah 1 Vocal Ah 2 Vocal Ooh 1 Vocal Ooh 2 Vocal Doo Vocal Daa Vocal Mmm	H	REED Soprano Sax Alto Sax Mel.Alto Sax Tenor Sax 1 Tenor Sax 2 Tenor Sax 3 RockTenorSax Baritone Sax JazzClarinet 1 JazzClarinet2 Clas.Clarinet Mel.Clarinet Bass Clarinet Oboe English Horn Bassoon Harmonica Blues Harm. Bagpipe	K	SYNTH BASICS Click Sine Sine Wave Triangle Wave Sawtooth Wave Square Wave Pulse Wave 1 Pulse Wave 2 Pulse Wave 3 Pulse Wave 4 Pulse Mod.1 Pulse Mod.2 Organ Bell Bright Bell Digi Bell Digi Lead Digi Wire Digi Wave 1 Digi Wave 2 Digi Wave 3 Crystal Wave Bell Pad Fog Vox Mellow Ens. Silent
C	GIUITAR Classical Gtr. Jazz Ac.Gtr. Spanish Gtr. Gtr.Harmonics Folk Guitar ElectroAc.Gtr. Jazz Guitar Bright Solid Mellow Solid Clean Solid Fusion Solid Mute Guitar Funk Mute Gtr. DistortionGtr. Hard Dist.Gtr. OverdriveGtr. RockHarmonics Country Gtr. HawaiianGtr.1 HawaiianGtr.2	F	ORGAN & ACCORDION Jazz Organ Full Drawbars Jazz Drawbars 16' & 1' 16' & 8' 16' Pipe Organ 1 Pipe Organ 2 Brt.Accordion Mel.Accordion Musette	I	FLUTE Piccolo Jazz Flute Classic Flute Alto Flute Pan Flute Recorder Ocarina Whistle Shakuhachi Ney		

TONE

L	VARIOUSE NOISE	N	DRUMS	O	PERCUSSION
	White Noise		Rock Bass Dr.		Conga 1
	HiPass Noise		Elect.BassDr.		Conga 2
	Sax Breath 1		Dance BassDr.		Bongo
	Sax Breath 2		House BassDr.		Talking Drum 1
	Sax Breath 3		Soul Bass Dr.		Talking Drum 2
	Flute Breath 1		Orch.Bass Dr.		Timbales 1
	Flute Breath 2		Rock Snare		Timbales 2
	Pan Breath 1		Soul Snare		BataDrum Open
	Pan Breath 2		House Snare		BataDrum Slap
	Harpsi.KeyOff		Analog Snare		Samba Drum
	Clavi KeyOff		Piccolo Snare		SambaDrumMute
	Organ Click		Orch.Snare		Darbuka
	Slap Shot		Reverse Snare		Surdo open
	Pick Noise 1		Melodic Tom		Wood Block
	Pick Noise 2		Electric Tom		Claves
	PickNoise2Acc		ElectBassTom		Tabla Hit
	Pick Noise 3		Analog Tom		Castanets
	Fret Noise		Jazz Tom		Slap
	Gtr.Resonance 1		Brush Short		Hand Claps
	Gtr.Resonance 2		Brush Long		Maracas
	Gtr.Resonance 3		Rim 1		Caxixi
	Gtr.Resonance 4		Rim 2		Cabasa
	AmbientHammer		Rim 3		Shaker
	Hammer		HiHatClosed 1		Shekele
	ElectroUnison		HiHatClosed 2		Guiro Short
	Electro Shot 1		HiHat Open 1		Guiro long
	Electro Shot 2		HiHat Open 2		Cuica 1
M	SOUND EFFECTS		Crash Cymbal 1		Cuica 2
	Scratch 1		Crash Cymbal 2		Triangle Mute
	Scratch 2		Splash Cymbal		Triangle Open
	Zap 1		China Cymbal		Agogo
	Zap 2		Orch.Cymbal		Cowbell
	Voice Ah		Ride Cymbal 1		FingerCymbal 1
	Voice Yeh		Ride Cymbal 2		FingerCymbal 2
	Voice Uh		Ride Bell		Berimbau 1
	Bird 1		ReverseCymb1		Berimbau 2
	Bird 2		ReverseCymb2		Sleigh Bell
	Gun Shot				Tambourine 1
	Helicopter				Tambourine 2
	Telephone				Orch.Tamb.
	Applause				Crickets
	Seashore				Nutshell Tree
					Vibraslap
					Samba Whistle
					Wind Chime 1
					Wind Chime 2
					Rain Stick

WSA

ACOUSTIC MODELING SYNTHESIS