

The ASB 64

Appendix

The Ad Lib Wave Table Solution

Instrument Table in 32 Mega-Bit Sample Rom
Using the Dream™ **SAM9233 Wave Table Processor**,
with the **SAM8905 Effects Processor** and
GMS9332 Sample-Rom

Incl. a total of 393 sounds, (225 instrument sounds,
120 drum sounds, 48 effect sounds)
8 drum and 1 sound effects kit.

The Ad Lib Sample Rom's (Read only Memory), contain PCM Wave Table data used by the Ad Lib ASB 64 Audio Board series of wavetable music synthesizers to produce high fidelity music and special effects.

Next Page:

GM Melodic Instruments and GS Variations

Sound Variations (all except channels 10)

PC: Program Change

C0: Midi Controller 0 value (C0 = 0 for General Midi/capital sounds)

Sound names conventions:

W: pan type sound (low notes sent to left, high notes sent to right)

D: other velocity response

V: velocity split type sound

O: special release on sound

PC	GENERAL MIDI	C0	1st Variation	C0	2nd Variation	C0	3rd Variation	C0	4th Variation
1	(Grand) Piano 1	8	Piano 1w	16	Piano 1d				
2	(Brigh) Piano 2	8	Piano 2w						
3	(El. Grd) Piano 3	8	Piano 3w						
*4	Honky-tonk Piano	*8	Honky-Tonk w						
5	El. Piano 1	*8	Detuned EP1	*16	El. Piano 1v		60 s El. Piano		
6	El. Piano 2	*8	Detuned EP 2	*16	El Piano 2v				
7	Harpichord	*8	Coupled Hps.	16	Harpsi w				
8	Clavi								
9	Celesta								
10	Glockenspiel								
11	Music Box								
12	Vibraphone	8	Vibes w						
13	Marimba	8	Marimba w						
14	Xylophone								
15	Tubular Bells	8	Church Bell	9	Carillon				
16	Dulcimer (Santur)								
17	Drawbar Organ	*8	Det. Organ 1	16	60 s Organ1	*24	Organ 4	*32	Organ 4
18	Percussive Organ	*8	Det. Organ 2	*24	Organ 5	*32	Organ 5		
19	Rock Organ								
20	Church Organ	8	Ch. Organ 2	1	Ch. Organ 3				
21	Reed Organ								
*22	Accordion (french)	*8	Acc. (Italian)						
23	Harmonica								
*24	Tango Accordion								
25	Ac. Guitar (Nylon)	1	Spanish Guitar	8	Ukulele	16	Nylon Gt. o	24/32	Nylon Gt. 2
26	Ac. Guitar (Steel)	*8	12-str. Guitar						
27	El. Guitar (Steel)	8	Hawaiin Gt.	16	Mandolin				
28	El. Guitar (clean)	*8	Chorus Gt.	16	60 s Guitar				
29	El. Guitar (muted)	8	Funk Gt.	16	Funk Gt. 2				
30	Overdriven Guitar								
31	Distortion Guitar	*8	Feedback Gt.						

PC	GENERAL MIDI	C0	1st Variation	C0	2nd Variation	C0	3rd Variation	C0	4th Variation
32	Guitar harmonics	8	Gt. Feedback						
33	Acoustic Bass								
34	El. Bass (finger)								
35	Elec. Bass (pink)								
36	Fretless Bass								
37	Slap Bass 1								
38	Slap Bass 2								
39	Synth Bass 1	1	Syn Bass 101	8	Synth. Bass 3				
40	Synth Bass 2	*8	Synth. Bass	*16	Rubber Bass				
41	Violin	8	Slow Violin						
41	Viola								
43	Cello								
44	Contrabass								
45	Tremolo Strings								
46	Pizzicato Strings								
47	Orchestra Harp								
48	Timpani								
49	String Ensemble 1	*8	Orchestra						
50	String Ensemble 2								
51	Synth Strings 1	*8	Syn Strings 3						
*52	Synth Strings 2								
53	Choir Aahs	24	Choir Aahs2	32	Choir Aahs 2				
54	Voice Oohs								
55	Synth Voice								
56	Orchestra Hit								
57	Trumpet								
58	Trombone	1	Trombone 2						
59	Tuba								
60	Muted Trumpet								
*61	French Horn	1	Fr. Horn						
62	Brass Section	*8	Brass 2						
*63	Synth Brass 1	*8	Syn Brass 3	*16	Analog Brass 1				

PC	GENERAL MIDI	C0	1st Variation	C0	2nd Variation	C0	3rd Variation	C0	4th Variation
64	Synth Brass 2	8	Synth Brass 4	*16	Analog Brass 2				
65	Soprano Sax								
66	Alto Sax								
67	Tenor Sax	8	Night Sax						
68	Baritone Sax								
69	Oboe								
70	English Horn								
71	Bassoon								
72	Clarinet								
73	Piccolo								
74	Flute								
75	Recorder								
76	Pan Flute								
*77	Blown Bottle								
78	Shakuhachi								
79	Whistle								
80	Ocarina								
*81	Lead 1 (square)	1	Square	8	Sine Wave				
*82	Lead 2 (sawtooth)	*1	Saw	8	Doctor Solo				
*83	Lead 3 (calliope)								
*84	Lead 4 (chiff)								
*85	Lead 5 (charang)								
*86	Lead 6 (voice)								
*87	Lead 7 (fifths)								
*88	Lead 8 (bass+lead)								
*89	Pad 1 (new age)								
*90	Pad 2 (warm)								
*91	Pad 3 (polysynth)								
92	Pad 4 (choir)								
*93	Pad 5 (bowed)								
*94	Pad 6 (voice)								
*95	Pad 7 (halo)								

PC	GENERAL MIDI	C0	1st Variation	C0	2nd Variation	C0	3rd Variation	C0	4th Variation
96	Pad 8 (sweep)								
*97	FX1 (rain)								
*98	FX2 (soundtrack)								
*99	FX3 (crystal)								
*100	FX4 (atmosphere)								
*101	FX5 (brightness)								
*102	FX6 (goblins)								
103	FX7 (echoes)	1	Echo Bell	2	Echo Pan				
104*	FX8 (sci-fi)	105	Sitar						
106	Banjo								
107	Shamisen								
108	Koto	8*	Taisho Koto						
109	Kalimba								
110	Bag Pipe								
110	Fiddle								
112	Shanai								
113	Tinkle Bell								
114	Agogo								
115	Steel Drums								
116	Woodblock	8	Castanets						
117	Taiko Drum	8	Concert BD						
118	Melodic Tom	8	Melo Tom 2						
119	Synth Drum	8	808 Tom	9	Elec Perc 1				
120	Reverse Cymbal								
121									
122									
123									
124									
125									
126									
127									
128									

NOTE: The asteriks (8) specifies sounds wich require two Voice/notes

Sound Variations (all exept chanel 10) - send CTRL 0, then PC

PC	CTRL 0	INSTRUMENT NAME
5	8	Detuned EP 1
6	8	Detuned EP 2
7	8	Coupled Harpsichord
15	8	Church Bell
17	8	Detuned Organ 1
18	8	Detuned Organ 2
20	8	Church Organ 2
22	8	Italian Accordion
25	8	Ukulele
26	8	Mandolin
27	8	Hawaian Guitar
28	8	Chorus Guitar
29	8	Funk Guitar
31	8	Feedback Guitar
32	8	Guitar Feedback
39	8	Synth Bass 3
40	8	Synth Brass 4
49	8	Orchestra
51	8	Synth Strings 3
62	8	Brass 2
63	8	Synth Brass 3
64	8	Synth Brass 4
81	8	Sine Wave
108	8	Taisho Koto
116	8	Castanets
117	8	Concert Bass Drum
118	8	Melo Tom 2
119	8	808 Tom

SFX Variations (all channels exept 10)

PRG #	General MIDI	CTRL=0 1	CTRL=0 2	CTRL=0 3	CTRL=0 4	CTRL=0 5	CTRL=0 6	CTRL=0 7	CTRL=0 8	CTRL=0 10
121	Gt. Fret Noise	Gt. Cut Noise	String Slap							
122	Breth Noise	Fl. Key Click								
123	Seashore	Rain	Thunder	Wind	Stream	Bubble				
124	Bird	Dog	Horse	Bird2						
	Tweet		Gallop							
125	Teleph.	Teleph.	Door	Door	Scratch	Windchi				
	Ring	Ring2	Creaking	Closing		me				
126	Heli-copter	Car Engine Start	Car Breaking	Car Pass	Car Crash	Police Siren	Train	Jet Takeoff	Starship	Burst Noise
127	Applause	Laughing	Screaming	Punch	Heart Beat	Footstep				
128	Gunshot	Machine	Lasergun	Explosion						
<p>Note: To select a variation, first send variation number (Controler #0) then send program change number</p>										

DRUM SET TABLE (MIDI CHANNEL 10)

**Notes: Blank: Same sound as “Standard Set”
(EXC): Sounds with same EXC number are mutually exclusive**

Midi Note #	Program 1/33: Standard Set Jazz Set	Prog 9: Room Set	Prog 17: Power Set	Prog 25: Electr. Set	Prog 26: TR 808 Set	Prog 41: Brush Set	Prog 49: Orchestr. Set	Prog 57: SFX Set
27-D#1	High Q						Closed Hi Hat	
28-E1	Slap						Pedal Hi-Hat	
29-F1	Scratch Push						Open Hi Hat	
30-F#1	Scratch Pull						Ride Cymbal	
31-G1	Sticks							
32-G#1	Square Click							
33-A1	Metronome Click							
34-A1	Metronome Bell							
35-B1	Kick drum 2							
36-C2	Kick drum 1		Power Kick		808 Bass Drum			
37-C#2	Side Stick				808 Rim shot			
38-D2	Snare Drum 1		Gated Snare		808 Snare Drum	Brush Tap	Concert SD	
39-D#2	Hand Clap					Brush Slap	Castanets	High Q
40-E2	Snare Drum 2			Gated Snare		Brush Swirl	Concert SD	Slap
41-F2	Low Floor Tom	Room L.. Tom 2	Room L. Tom2	Elec L. Tom 2	808 L. Tom 2		Timpani F	Scratch Push
42-F#2	Closed Hi Hat (ext1)						Timpani F #	Scrach Pull
43-G2	High Floor Tom	Room L. Tom 1	Room L. Tom 1		808 L. Tom 2		Timpani G	Sticks
44-G#2	Pedal Hi-Hat (ext1)						Timpani G#	Square Click
45-A2	Low Tom	Room M. Tom 2	Room M. Tom 2	Elec M. Tom 2	808 M. Tom 2		Timpani A	Metron. Click
46-A#2	Open Hi-Hat (ext1)						TimpaniA#	Metron. Bell
47-B2	Low-M. Tom	Room M. Tom 1	Room M. Tom 1	Elec M. Tom 1	808 Mi. Tom 1		Timpani B	Gutare Slide
48-C3	Hi Mid Tom	Room M. Tom 2	Room Hi Tom 2	808 Hi Tom 2			Timpani c	G. Cut(down)
49-C#3	Crash Cymbal 1						Timpani c#	G. Cut (up)
50-D3	High Tom	Room Hi Tom	Room Hi Tom 1	Elec Hi Tom 1	808 Hi Tom 1		Timpani d	Doubl. B. Slap
51-D#3	Ride Cymbal 1						Timpani d#	Key Click
52-E3	Chinese Cymbal			Reverse Cymbal			Timpani e	Laughing
53-F3	Ride Bell						Timpani f	Screaming
54-F#3	Tambourine							Punch
55-G3	Splash Cymba							Heart Beat!
56-G#3	Cowbell							Footsteps1
57-A3	Crash Cymbal 2							Footsteps2

DRUM SET TABLE (MIDI CHANNEL 10)

Notes: Blank: Same sound as “Standard Set”
(EXC): Sounds with same EXC number are mutually exclusive

Midi Note #	Program 1/33: Standard Set Jazz Set	Prog 9: Room Set	Prog 17: Power Set	Prog 25: Electr. Set	Prog 26: TR 808 Set	Prog 41: Brush Set	Prog 49: Orchestr. Set	Prog 57: SFX Set
58-A#3	Vibraslap							Applause
59-B3	Ride Cymbal 2							Door Creak.
60-C4	Hi Bongo							Door Close.
61-C#4	Low Bongo							Scratch
62-D4	Mute Hi Conga				808 High Conga			Wind Chime
63-D#4	Open Hi Conga				808 Mid Conga			Car Start
64-E4	Low Conga				808 Low Conga			Car Breaking
65-F4	High Timbale							Car Pass
66-F#4	Low Timbale							Car Crash
67-G4	High Agogo							Police Siren
68-G#4	Low Agogo							Train
69-A4	Cabasa							Jet take-off
70-A#4	Maracas							Helicopter
71-B4	Short Whistle(EXC2)							Starship
72-C5	Long Whistle(EXC2)							Gun Shot
73-C#5	Short Guiro(EXC3)							Machinegun
74-D5	Long Guiro(EXC3)							Lasergun
75-D#5	Claves							Explosion
76-E5	Hi Wood Block							Dog
77-F5	Low Wood Block							Horse Gallop
78-F#5	Mute Cuica (EXC4)							Birds
79-G5	Open Cuica (EXC4)							Rain
80-G#5	Mute Triangle (EXC5)							Thunder
81-A5	Open Triangle (EXC5)							Wind
82-A#5	Shaker							Sea Shore
83-B5	Jingle Bell							Stream
84-C6	Belltree							Bubble
85-C#6	Castanets							
86-D6	Mute Surdo (EXC6)							
87-D#6	Open Surdo (EXC6)							
88-E6	Applause							

MT 32 Percussion Map CM-64/MT-32 Set (MIDI Channel 10, Program # 128)

35-B1	Bass Drum 2 (acoustic)	60-C4	Hi Bongo	85-C#6	Scratch
36-C2	Bass Drum 1 (Rock)	61-C#4	Low Bongo	86-D6	Windchime
37-C#2	Side Stick	62-D4	Mute Hi Conga	87-D#6	Car Engine Start
38-D2	Snare Drum 1	63-D#4	Open High Conga	88-E6	Car Breaking
39-D#2	Hand Clap	64-E4	Low Conga	89-F6	Car Pass
40-E2	Snare Drum 2	65-F4	High Timbale	90-F#6	Car Crash
41-F2	Low Floor Tom	66-F#4	Low Timbale	91-G6	Police Siren
42-F#2	Closed Hi Hat (EXC1)	67-G4	High Agogo	92-G#6	Train
43-G2	High Floor Tom	68-G#4	Low Agogo	93-A6	Jet Take-off
44-G#2	Pedal Hi-Hat (EXC1)	69-A4	Cabasa	94-A#6	Helicopter
45-A2	Low Tom	70-A#4	Maracas	95-B6	Startship
46-A#2	Open Hi-Hat (EXC1)	71-B4	Short Whistle	96-C7	Gun Shot
47-B2	Low-Mid Tom	72-C5	Long Whistle	97-C#7	Machinegun
48-C3	Hi Mid Tom	73-C#5	Short Guiro	98-D7	Lasergun
49-C#3	Crash Cymbal 1	74-D5		99-D#7	Explosion
50-D3	High Tom	75-D#5	Claves	100-E7	Dog
51-D#3	Ride Cymbal 1	76-E5	Laughing	101-F7	Horse
52-E3		77-F5	Screaming	102-F#7	Birds
53-F3		78-F#5	Punch	103-G7	Rain
54-F#3	Tambourine	79-G5	Heartbeat	104-G#7	Thunder
55-G3		80-G#5	Footsteps1	105-A7	Wind
56-G#3	Cowbell	81-A5	Footsteps2	106-A#7	Sea Shore
57-A3		82-A#5	Applause	107-B7	Stream
58-A#3		83-B5	Door Creaking	108-C8	Bubble
59-B3		84-C6	Door Closing		

MT 32 Compatibility Mode (MIDI Channels 1-9, 11-16) Variations (MIDI 0) : 127

Note: This mode ensures only basic compatibility with MT 32 by mapping GM instruments onto the MT32 sound list.

1	Piano	33	Fantasia	65	Acoustic Bs.	97	Brass 2
2	Piano2	34	Syn Calliope	66	Fingered Bs.	98	Vibraphone
3	Piano3	35	Choir Aahs	67	Picked Bs.	99	Vibraphone
4	Detuned EP 1	36	Bowed Glass	68	Fretless Bs.	100	Kalimba
5	E.Piano1	37	Soundtrack	69	Slap Bs. 1	101	Tinkle Bell
6	E.Piano2	38	Atmosphere	70	Slap Bs.	102	Glockenspiel
7	Detuned EP2	39	Crystal	71	Fretless Bs.	103	Tubular-Bell
8	Honky-Tonk	40	Bag Pipe	72	Fretless Bs.	104	Xylophone
9	Organ1	41	Tinkle Bell	73	Flute	105	Marimba
10	Organ 2	42	Ice Rain	74	Flute	106	Koto
11	Organ 3	43	Oboe	75	Piccolo	107	Taisho Koto
12	Detuned Or.1	44	Pan Flute	76	Piccolo	108	Shakuhachi
13	Church Org.2	45	Saw Wave	77	Recorder	109	Whistle
14	Church Org.	46	Charang	78	Pan Flute	110	Whistle
15	Church Org.	47	Tubular	79	Soprano Fax	111	Bottle Blow
16	Accordion Fr.	48	Square Wave	80	Alto Sax	112	Pan Flute
17	Harpichord	49	Strings	81	Tenor Sax	113	Timpani
18	Coupled Hps.	50	Tremolo Str.	82	Baritone Sax	114	Melo Tom
19	Coupled Hps.	51	Slow Strings	83	Clarinet	115	Concert BD
20	Clav.	52	Pizzicato Str.	84	Clarinet	116	Synth Drum.
21	Clav.	53	Violin	85	Oboe	117	Melo Tom
22	Clav.	54	Viola	86	English Horn	118	Taiko
23	Celesta	55	Cello	87	Bassoon	119	Taiko
24	Celesta	56	Cello	88	Harmonica	120	Reverse Cym.
25	Synth Brass1	57	Contrabass	89	Trumpet	121	Castanets
26	Synth Brass2	58	Harp	90	Muted Trumpet	122	Tinkle Bell
27	Synth Brass3	59	Harp	91	Trombone	123	Orchestra Hit
28	Synth Brass4	60	Nylon-str. Gt	92	Trombone	124	Telephone
29	Synth Brass1	61	Steel-Str. Gt	93	French Horn	125	Bird
30	Synth Brass2	62	Chorus Gt.	94	French Horn	126	Helicopter
31	Synth Brass3	63	Funk Gt.	95	Tuba	127	Bowed Glass
32	Synth Brass4	64	Sitar	96	Brass	128	Ice Rain

The ASB 32

Appendix

The Ad Lib Wave-Table Solution™ Instrument Table in 8 Mega-Bit Sample Rom Using the Dream™ **SAM9233** and **GMS9308** Sample-Rom

Incl. a total of 343 sounds, (190 instrument sounds,
107 drum sounds, 46 effect sounds)
8 drum and 1 sound effects kit.

PC General Midi	PC General Midi	PC General Midi
1 (Grand) Piano 1	32 Guitar harmonics	64 Synth Brass 2
2 (Bright) Piano 2	33 Acoustic Bass	65 Soprano Sax
3 (El. Grd.) Piano	34 Elec. Bass (finger)	66 Alto Sax
4 Honky-tonk Piano	35 Elec. Bass (pick)	67 Tenor Sax
5 Elec. Piano 1	36 Fretless Bass	68 Baritone Sax
6 Elec. Piano 2	37 Slap Bass 1	69 Oboe
7 Harpsichord	38 Slap Bass 2	70 English Horn
8 Clavi	39 Synth Bass 1	71 Bassoon
9 Celesta	40 Synth Bass 2	72 Clarinet
10 Glockenspiel	41 ViolinViola	73 Piccolo
11 Music Box	43 Cello	74 Flute
12 Vibraphone	44 Contrabass	75 Recorder
13 Matimba	45 Tremelos Strings	76 Pan Flute
14 Xylophone	46 Pizzicato Strings	77 Blown Bottle
15 Tubular Bells	47 Orchestral Harp	78 Shakuhachi
16 Santur	48 Timpani	79 Whistle
17 Drawbar Organ	49 String Ensemble 1	80 Ocarina
18 Percussion Organ	50 String Ensemble 2	81 Lead 1 (square)
19 Rock Organ	51 Synth Strings 1	82 Lead 2 (sawtooth)
20 Church Organ	52 Synth Strings 2	83 Lead 3 (calliope)
21 Reed Organ	53 Choir Aahs	84 Lead 4 (chiff)
22 Accordion (french)	54 Voice Oohs	85 Lead 5 (charang)
23 Harmonica	55 Synth Voice	86 Lead 6 (voice)
24 Tango Accordion	56 Orchestra Hit	87 Lead 7 (fifths)
25 Ac. Guitar (nylon)	57 Trumpet	88 Lead 8 (bass-head)
26 Ac. Guitar (steel)	58 Trombone	89 Pad 1 (fantasia)
27 Elec. Guitar (jazz)	59 Tuba	90 Pad 2 (warm)
28 Elec. Guitar (clean)	60 Muted Trumpet	91 Pad 3 (polysynth)
29 Elec. Guitar (muted)	61 French Horn	92 Pad 4 (choir)
30 Overdriven Guitar	62 Brass Section	
31 Distortion Guitar	63 Synth Brass 1	

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Appendix

93 Pad 5 (bowed)	106 Banjo	119 Synth Drum
94 Pad 6 (metallic)	107 Shamisen	120 Reverse Cymbal
95 Pad 7 (halo)	108 Koto	120 Reverse Cymbal
96 Pad 8 (sweep)	109 Kalimba	121 Gt. Fret Noise
97 FX 1 (rain)	110 Bag pipe	122 Breath Noise
98 FX 2 (soundtrack)	111 Fiddle	123 Seashore
99 FX 3 (crystal)	112 Shanai	124 Bird Tweet
100 FX 4 (atmosphere)	113 Tinkle Bell	125 Teleph. Ring
101 FX 5 (brightness)	114 Agogo	126 Helicopter
102 FX 6 (goblins)	115 Steel Drums	127 Applause
103 FX 7 (echoes)	116 Woodblock	128 Gunshot
104 FX 8 (sci-fi)	117 Taiko Drum	
105 Sitar	118 Melodic Tom	

Sound Variations (all exept chanel 10) - send CTRL 0, then PC

PC	CTRL 0	INSTRUMENT NAME
5	8	Detuned EP 1
6	8	Detuned EP 2
7	8	Coupled Harpsichord
15	8	Church Bell
17	8	Detuned Organ 1
18	8	Detuned Organ 2
20	8	Church Organ 2
22	8	Italian Accordion
25	8	Ukulele
26	8	Mandolin
27	8	Hawaian Guitar
28	8	Chorus Guitar
29	8	Funk Guitar
31	8	Feedback Guitar
32	8	Guitar Feedback
39	8	Synth Bass 3
40	8	Synth Brass 4
49	8	Orchestra
51	8	Synth Strings 3
62	8	Brass 2
63	8	Synth Brass 3
64	8	Synth Brass 4
81	8	Sine Wave
108	8	Taisho Koto
116	8	Castanets
117	8	Concert Bass Drum
118	8	Melo Tom 2
119	8	808 Tom

SFX Variations (all channels exept 10)

PRG #	General MIDI	CTRL=0 1	CTRL=0 2	CTRL=0 3	CTRL=0 4	CTRL=0 5	CTRL=0 6	CTRL=0 7	CTRL=0 8	CTRL=0 10
121	Gt. Fret Noise	Gt. Cut Noise	String Slap							
122	Breth Noise	Fl. Key Click								
123	Seashore	Rain	Thunder	Wind	Stream	Bubble				
124	Bird	Dog	Horse	Bird2						
	Tweet		Gallop							
125	Teleph.	Teleph.	Door	Door	Scratch	Windchi				
	Ring	Ring2	Creaking	Closing	me					
126	Heli-copter	Car Engine Start	Car Breaking	Car Pass	Car Crash	Police Siren	Train	Jet Takeoff	Starship	Burst Noise
127	Applause	Laughing	Screaming	Punch	Heart Beat	Footstep				
128	Gunshot	Machine	Lasergun	Explosion						
<p>Note: To select a variation, first send variation number (Controller #0) then send program change number</p>										

DRUM SET TABLE (MIDI CHANNEL 10)

Notes: Blank: Same sound as “Standard Set”
(EXC): Sounds with same EXC number are mutually exclusive

Midi Note #	Program 1/33: Standard Set Jazz Set	Prog 9: Room Set	Prog 17: Power Set	Prog 25: Electr. Set	Prog 26: TR 808 Set	Prog 41: Brush Set	Prog 49: Orchestr. Set	Prog 57: SFX Set
27-D#1	High Q						Closed Hi Hat	
28-E1	Slap						Pedal Hi-Hat	
29-F1	Scratch Push						Open Hi Hat	
30-F#1	Scratch Pull						Ride Cymbal	
31-G1	Sticks							
32-G#1	Square Click							
33-A1	Metronome Click							
34-A1	Metronome Bell							
35-B1	Kick drum 2							
36-C2	Kick drum 1		Power Kick		808 Bass Drum			
37-C#2	Side Stick				808 Rim shot			
38-D2	Snare Drum 1		Gated Snare		808 Snare Drum	Brush Tap	Concert SD	
39-D#2	Hand Clap					Brush Slap	Castanets	High Q
40-E2	Snare Drum 2			Gated Snare		Brush Swirl	Concert SD	Slap
41-F2	Low Floor Tom	Room L. Tom 2	Room L. Tom2	Elec L. Tom 2	808 L. Tom 2		Timpani F	Scratch Push
42-F#2	Closed Hi Hat (ext1)						Timpani F #	Scrach Pull
43-G2	High Floor Tom	Room L. Tom 1	Room L. Tom 1		808 L. Tom 2		Timpani G	Sticks
44-G#2	Pedal Hi-Hat (ext1)						Timpani G#	Square Click
45-A2	Low Tom	Room M. Tom 2	Room M. Tom 2	Elec M. Tom 2	808 M. Tom 2		Timpani A	Metron. Click
46-A#2	Open Hi-Hat (ext1)						Timpani A#	Metron. Bell
47-B2	Low-M. Tom	Room M. Tom 1	Room M. Tom 1	Elec M. Tom 1	808 Mi. Tom 1		Timpani B	Guitare Slide
48-C3	Hi Mid Tom	Room M. Tom 2	Room Hi Tom 2	808 Hi Tom 2			Timpani c	G. Cut(down)
49-C#3	Crash Cymbal 1						Timpani c#	G. Cut (up)
50-D3	High Tom	Room Hi Tom	Room Hi Tom 1	Elec Hi Tom 1	808 Hi Tom 1		Timpani d	Doubl. B.Slap
51-D#3	Ride Cymbal 1						Timpani d#	Key Click
52-E3	Chinese Cymbal			Reverse Cymbal			Timpani e	Laughing
53-F3	Ride Bell						Timpani f	Screaming
54-F#3	Tambourine							Punch
55-G3	Splash Cymba							Heart Beat1
56-G#3	Cowbell							Footsteps1
57-A3	Crash Cymbal 2							Footsteps2

E

F

G

Appendix

DRUM SET TABLE (MIDI CHANNEL 10)

**Notes: Blank: Same sound as “Standard Set”
(EXC): Sounds with same EXC number are mutually exclusive**

Midi Note #	Program 1/33: Standard Set Jazz Set	Prog 9: Room Set	Prog 17: Power Set	Prog 25: Electr. Set	Prog 26: TR 808 Set	Prog 41: Brush Set	Prog 49: Orchestr. Set	Prog 57: SFX Set
58-A#3	Vibraslap							Applause
59-B3	Ride Cymbal 2							Door Creak.
60-C4	Hi Bongo							Door Close.
61-C#4	Low Bongo							Scratch
62-D4	Mute Hi Conga				808 High Conga			Wind Chime
63-D#4	Open Hi Conga				808 Mid Conga			Car Start
64-E4	Low Conga				808 Low Conga			Car Breaking
65-F4	High Timbale							Car Pass
66-F#4	Low Timbale							Car Crash
67-G4	High Agogo							Police Siren
68-G#4	Low Agogo							Train
69-A4	Cabasa							Jet take-off
70-A#4	Maracas							Helicopter
71-B4	Short Whistle(EXC2)							Starship
72-C5	Long Whistle(EXC2)							Gun Shot
73-C#5	Short Guiro(EXC3)							Machinegun
74-D5	Long Guiro(EXC3)							Lasergun
75-D#5	Claves							Explosion
76-E5	Hi Wood Block							Dog
77-F5	Low Wood Block							Horse Gallop
78-F#5	Mute Cuica (EXC4)							Birds
79-G5	Open Cuica (EXC4)							Rain
80-G#5	Mute Triangle (EXC5)							Thunder
81-A5	Open Triangle (EXC5)							Wind
82-A#5	Shaker							Sea Shore
83-B5	Jingle Bell							Stream
84-C6	Belltone							Bubble
85-C#6	Castanets							
86-D6	Mute Surdo (EXC6)							
87-D#6	Open Surdo (EXC6)							
88-E6	Applause							

MT 32 Percussion Map CM-64/MT-32 Set (MIDI Channel 10, Program # 128)

35-B1	Bass Drum 2 (acoustic)	60-C4	Hi Bongo	85-C#6	Scratch
36-C2	Bass Drum 1 (Rock)	61-C#4	Low Bongo	86-D6	Windchime
37-C#2	Side Stick	62-D4	Mute Hi Conga	87-D#6	Car Engine Start
38-D2	Snare Drum 1	63-D#4	Open High Conga	88-E6	Car Breaking
39-D#2	Hand Clap	64-E4	Low Conga	89-F6	Car Pass
40-E2	Snare Drum 2	65-F4	High Timbale	90-F#6	Car Crash
41-F2	Low Floor Tom	66-F#4	Low Timbale	91-G6	Police Siren
42-F#2	Closed Hi Hat (EXC1)	67-G4	High Agogo	92-G#6	Train
43-G2	High Floor Tom	68-G#4	Low Agogo	93-A6	Jet Take-off
44-G#2	Pedal Hi-Hat (EXC1)	69-A4	Cabasa	94-A#6	Helicopter
45-A2	Low Tom	70-A#4	Maracas	95-B6	Starship
46-A#2	Open Hi-Hat (EXC1)	71-B4	Short Whistle	96-C7	Gun Shot
47-B2	Low-Mid Tom	72-C5	Long Whistle	97-C#7	Machinegun
48-C3	Hi Mid Tom	73-C#5	Short Guiro	98-D7	Lasergun
49-C#3	Crash Cymbal 1	74-D5		99-D#7	Explosion
50-D3	High Tom	75-D#5	Claves	100-E7	Dog
51-D#3	Ride Cymbal 1	76-E5	Laughing	101-F7	Horse
52-E3		77-F5	Screaming	102-F#7	Birds
53-F3		78-F#5	Punch	103-G7	Rain
54-F#3	Tambourine	79-G5	Heartbeat	104-C#7	Thunder
55-G3		80-G#5	Footsteps1	105-A7	Wind
56-G#3	Cowbell	81-A5	Footsteps2	106-A#7	Sea Shore
57-A3		82-A#5	Applause	107-B7	Stream
58-A#3		83-B5	Door Creaking	108-C8	Bubble
59-B3		84-C6	Door Closing		

MT 32 Compatibility Mode (MIDI Channels 1-9, 11-16) Variations (MIDI 0) : 127

Note: This mode ensures only basic compatibility with MT 32 by mapping GM instruments onto the MT32 sound list.

1 Piano	33 Fantasia	65 Acoustic Bs.	97 Brass 2
2 Piano2	34 Syn Calliope	66 Fingered Bs.	98 Vibraphone
3 Piano3	35 Choir Aahs	67 Picked Bs.	99 Vibraphone
4 Detuned EP 1	36 Bowed Glass	68 Fretless Bs.	100 Kalimba
5 E.Piano1	37 Soundtrack	69 Slap Bs. 1	101 Tinkle Bell
6 E.Piano2	38 Atmosphere	70 Slap Bs.	102 Glockenspiel
7 Detuned EP2	39 Crystal	71 Fretless Bs.	103 Tubular-Bell
8 Honky-Tonk	40 Bag Pipe	72 Fretless Bs.	104 Xylophone
9 Organ1	41 Tinkle Bell	73 Flute	105 Marimba
10 Organ 2	42 Ice Rain	74 Flute	106 Koto
11 Organ 3	43 Oboe	75 Piccolo	107 Taisho Koto
12 Detuned Or.1	44 Pan Flute	76 Piccolo	108 Shakuhachi
13 Church Org.2	45 Saw Wave	77 Recorder	109 Whistle
14 Church Org.	46 Charang	78 Pan Flute	110 Whistle
15 Church Org.	47 Tubular	79 Soprano Fax	111 Bottle Blow
16 Accordion Fr.	48 Square Wave	80 Alto Sax	112 Pan Flute
17 Harpsichord	49 Strings	81 Tenor Sax	113 Timpani
18 Coupled Hps.	50 Tremolo Str.	82 Baritone Sax	114 Melo Tom
19 Coupled Hps.	51 Slow Strings	83 Clarinet	115 Concert BD
20 Clav.	52 Pizzicato Str.	84 Clarinet	116 Synth Drum.
21 Clav.	53 Violin	85 Oboe	117 Melo Tom
22 Clav.	54 Viola	86 English Horn	118 Taiko
23 Celesta	55 Cello	87 Bassoon	119 Taiko
24 Celesta	56 Cello	88 Harmonica	120 Reverse Cym.
25 Synth Brass1	57 Contrabass	89 Trumpet	121 Castanets
26 Synth Brass2	58 Harp	90 Muted Trumpet	122 Tinkle Bell
27 Synth Brass3	59 Harp	91 Trombone	123 Orchestra Hit
28 Synth Brass4	60 Nylon-str. Gt	92 Trombone	124 Telephone
29 Synth Brass1	61 Steel-Str. Gt	93 French Horn	125 Bird
30 Synth Brass2	62 Chorus Gt.	94 French Horn	126 Helicopter
31 Synth Brass3	63 Funk Gt.	95 Tuba	127 Bowed Glass
32 Synth Brass4	64 Sitar	96 Brass	128 Ice Rain

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- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Any changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.