

Appendix C

Drum sounds

General MIDI

This list shows the drum sounds and sound effects on the VGM board that are available when the PC88 is in General MIDI mode. The different sets are accessed by sending the PC88 the appropriate program change number on Channel 10. These numbers assume the "Program Number Display" parameter is set for 0-127; add 1 if it is set for 1-128. The GM Jazz Kit, Program Change #32, is the same as the GM Standard Kit, and is included for compatibility with GS sequences. A sound marked with "EXC" and a number is an "exclusive" sound—when it is played, any other sound marked "EXC" and the *same* number will cut off immediately. These same sets are available in the VGM Expansion Bank (2), with different program change numbers, for use when the PC88 is not in GM mode. From the Expansion Bank, they can be accessed on any MIDI channel. An empty box in a set means that that note plays the same sound as in the Standard GM Set.

Number	Note	GM Standard Kit	Room Kit	Power Kit	Electronic Kit	Synth Kit	Brush Kit	Orchestra Kit
GM mode program change no. (channel 10 only)		0, 32	8	16	24	25	40	48
Expansion Bank program change no. (any channel)		67	68	69	70	71	72	73
27	D#1	High Q						Closed Hi Hat (EXC1)
28	E1	Slap						Pedal Hi Hat (EXC1)
29	F1	Scratch Push						Open Hi Hat (EXC1)
30	F#1	Scratch Pull						Ride Cymbal
31	G1	Sticks						
32	G#1	Square Click						
33	A1	Metronome Click						
34	A#1	Metronome Bell						
35	B1	Kick Drum 2						Concert Bass Drum 2
36	C2	Kick Drum 1		Gated Kick	Elec Bass Drum	Bass Drum		Concert Bass Drum 1
37	C#2	Side Stick				Rim Shot		
38	D2	Snare Drum 1		Gated Snare Drum	Elec Snare Drum	Snare Drum	Brush Tap	Concert Snare Drum
39	D#2	Hand Clap					Brush Slap	Castanets
40	E2	Snare Drum 2			Gated Snare Drum		Brush Swirl	Concert Snare Drum
41	F2	Low Tom 2	Room Low Tom 2	Room Low Tom 2	Elec Low Tom 2	Low Tom 2		Timpani F
42	F#2	Closed Hi Hat (EXC1)				Closed Hi Hat (EXC1)		Timpani F#
43	G2	Low Tom 1	Room Low Tom 1	Room Low Tom 1	Elec Low Tom 1	Low Tom 1		Timpani G
44	G#2	Pedal Hi Hat (EXC1)				Closed Hi Hat (EXC1)		Timpani G#
45	A2	Mid Tom 2	Room Mid Tom 2	Room Mid Tom 2	Elec Mid Tom 2	Mid Tom 2		Timpani A
46	A#2	Open Hi Hat (EXC 1)				Open Hi Hat (EXC1)		Timpani A#

Drum sounds

General MIDI

Number	Note	GM Standard Kit	Room Kit	Power Kit	Electronic Kit	Synth Kit	Brush Kit	Orchestra Kit
47	B2	Mid Tom 1	Room Mid Tom 1	Room Mid Tom 1	Elec Mid Tom 1	Mid Tom 1		Timpani B
48	C3	Hi Tom 2	Room Hi Tom 2	Room Hi Tom 2	Elec Hi Tom 2	Hi Tom 2		Timpani C
49	C#3	Crash Cymbal 1						Timpani C#
50	D3	Hi Tom 1	Room Hi Tom 1	Room Hi Tom 1	Elec Hi Tom 1	Hi Tom 1		Timpani D
51	D#3	Ride Cymbal 1						Timpani D#
52	E3	Chinese Cymbal						Timpani E
53	F3	Ride Bell						Timpani F
54	F#3	Tambourine						
55	G3	Splash Cymbal						
56	G#3	Cowbell				Cowbell		
57	A3	Crash Cymbal 2						Concert Cymbal 2
58	A#3	Vibraslap						
59	B3	Ride Cymbal 2						Concert Cymbal 1
60	C4	Hi Bongo						
61	C#4	Lo Bongo						
62	D4	Mute Hi Conga						
63	D#4	Open Hi Conga						
64	E4	Low Conga						
65	F4	Hi Timbale						
66	F#4	Lo Timbale						
67	G4	Hi Agogo						
68	G#4	Lo Agogo						
69	A4	Cabasa						
70	A#4	Maracas						
71	B4	Hi Whistle (EXC2)						
72	C5	Lo Whistle (EXC2)						
73	C#5	Short Guiro						
74	D5	Long Guiro						
75	D#5	Claves						
76	E5	Hi Wood Block						
77	F5	Lo Wood Block						
78	F#5	Mute Cuica						
79	G5	Open Cuica						
80	G#5	Mute Triangle (EXC5)						
81	A5	Open Triangle (EXC5)						
82	A#5	Shaker						
83	B5	Jingle Bell						
84	C6	Bell						
85	C#6	Castanets						
86	D6	Mute Surdo						
87	D#6	Open Surdo						
88	E6							Applause

Kurzweil Drums

Shown below are the “Kurzweil” percussion sounds available in the Expansion Bank (2) on the VGM board.

Note	Clean	Ambient	Synth
Prog. change no.	74	75	76
A0	Kick Drum	Ambient Kick Drum	Synth Kick Drum
A#0	Kick Drum	Ambient Kick Drum	Synth Kick Drum
B0	Kick Drum	Ambient Kick Drum	Synth Kick Drum
C1	Kick Drum	Ambient Kick Drum	Synth Kick Drum
C#1	Sidestick	Sidestick	Sidestick
D1	Floor Tom	Ambient Floor Tom	Synth Floor Tom
D#1	Floor Tom	Ambient Floor Tom	Synth Floor Tom
E1	Floor Tom	Ambient Floor Tom	Synth Floor Tom
F1	Lo Tom	Ambient Lo Tom	Synth Lo Tom
F#1	Lo Tom	Ambient Lo Tom	Synth Lo Tom
G1	Mid Tom	Ambient Mid Tom	Synth Mid Tom
G#1	Mid Tom	Ambient Mid Tom	Synth Mid Tom
A1	Hi Tom	Ambient Hi Tom	Synth Hi Tom
A#1	Hi Tom	Ambient Hi Tom	Synth Hi Tom
B1	Dual Snare	Ambient Snare	Synth Snare
C2	Dual Snare	Ambient Snare	Synth Snare
C#2	Dual Snare	Ambient Snare	Synth Snare
D2	Closed Hi Hat	Closed Hi Hat	Closed Hi Hat
D#2	Closed Hi Hat	Closed Hi Hat	Closed Hi Hat
E2	Closed Hi Hat	Closed Hi Hat	Closed Hi Hat
F2	Slightly Open Hi Hat	Slightly Open Hi Hat	Slightly Open Hi Hat
F#2	Slightly Open Hi Hat	Slightly Open Hi Hat	Slightly Open Hi Hat
G2	Slightly Open Hi Hat	Slightly Open Hi Hat	Slightly Open Hi Hat
G#2	Open Hi Hat	Open Hi Hat	Open Hi Hat
A2	Open Hi Hat	Open Hi Hat	Open Hi Hat
A#2	Fully Open Hi Hat	Fully Open Hi Hat	Fully Open Hi Hat
B2	Fully Open Hi Hat	Fully Open Hi Hat	Fully Open Hi Hat
C3	Pedal Hi Hat	Pedal Hi Hat	Pedal Hi Hat
C#3	Crash Cymbal	Crash Cymbal	Crash Cymbal
D3	Crash Cymbal	Crash Cymbal	Crash Cymbal
D#3	Crash Cymbal	Crash Cymbal	Crash Cymbal
E3	Crash Cymbal	Crash Cymbal	Crash Cymbal
F3	Crash Cymbal	Crash Cymbal	Crash Cymbal
F#3	Crash Cymbal	Crash Cymbal	Crash Cymbal
G3	Crash Cymbal	Crash Cymbal	Crash Cymbal
G#3	Dual Ride (Rim > Bell)	Dual Ride (Rim > Bell)	Dual Ride (Rim > Bell)
A3	Ride Rim	Ride Rim	Ride Rim
A#3	Dual Ride	Dual Ride	Dual Ride
B3	Ride Bell	Ride Bell	Ride Bell
C4	Lo Conga Tone	Lo Conga Tone	Lo Conga Tone
C#4	Mid Conga Tone	Mid Conga Tone	Mid Conga Tone
D4	Conga Buba Stroke	Conga Buba Stroke	Conga Buba Stroke
D#4	Conga Tone	Conga Tone	Conga Tone

Note	Clean	Ambient	Synth
E4	Conga Tone	Conga Tone	Conga Tone
F4	Conga Tap (Tap> Howl Tone)	Conga Tap (Tap> Howl Tone)	Conga Tap (Tap> Howl Tone)
F#4	Conga Slap	Conga Slap	Conga Slap
G4	Cabasa	Cabasa	Cabasa
G#4	Cabasa	Cabasa	Cabasa
A4	Shaker	Shaker	Shaker
A#4	Shaker	Shaker	Shaker
B4	Claves	Claves	Claves
C5	Lo Timbale	Lo Timbale	Lo Timbale
C#5	Lo Timbale	Lo Timbale	Lo Timbale
D5	Hi Timbale	Hi Timbale	Hi Timbale
D#5	Hi Timbale	Hi Timbale	Hi Timbale
E5	Lo Cowbell	Lo Cowbell	House Cowbell
F5	Lo Agogo	Lo Agogo	Lo Agogo
F#5	Lo Agogo Muted	Lo Agogo Muted	Lo Agogo Muted
G5	Mid Agogo	Mid Agogo	Mid Agogo
G#5	Mid Agogo Muted	Mid Agogo Muted	Mid Agogo Muted
A5	Hi Agogo	Hi Agogo	Hi Agogo
A#5	Hi Agogo Muted	Hi Agogo Muted	Hi Agogo Muted
B5	Long Guiro	Long Guiro	Long Guiro
C6	Long Guiro	Long Guiro	Long Guiro
C#6	Short Guiro	Short Guiro	Short Guiro
D6	Tambourine	Tambourine	Tambourine
D#6	Tambourine	Tambourine	Tambourine
E6	Triangle	Triangle	Triangle
F6	Triangle	Triangle	Triangle
F#6	Triangle Muted	Triangle Muted	Triangle Muted
G6	Lo Woodblock	Lo Woodblock	Lo Woodblock
G#6	Hi Woodblock	Hi Woodblock	Hi Woodblock
A6	Lo Samba Whistle	Lo Samba Whistle	Lo Samba Whistle
A#6	Mid Samba Whistle	Mid Samba Whistle	Mid Samba Whistle
B6	Hi Samba Whistle	Hi Samba Whistle	Hi Samba Whistle
C7	House Kick	House Kick	House Chirp
C#7	House Stick Click	House Stick Click	Click
D7	Hi House Snare	Hi House Snare	Agogo
D#7	Hi House Snare	Hi House Snare	Agogo
E7	Lo House Snare	Lo House Snare	Synth FX
F7	Lo House Snare	Lo House Snare	Synth FX
F#7	Lo Hand Claps	Lo Hand Claps	Lo Hand Claps
G7	Hi Hand Claps	Hi Hand Claps	Hi Hand Claps
G#7	House Cowbell	House Cowbell	House Cowbell
A7	House Cowbell	House Cowbell	House Cowbell
A#7	Metal Clank	Metal Clank	Metal Clank
B7	Vibraslap	Vibraslap	Vibraslap
C8	Fully Open Hi Hat 2	Fully Open Hi Hat 2	Fully Open Hi Hat 2