

## General MIDI Chart with Pitch Conversions for Percussion Instruments (Channel 10)

### General MIDI Level 1 Sound Set

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General MIDI's most recognized feature is the defined list of sounds or "patches". However, General MIDI does not actually define the way the sound will be reproduced, only the name of that sound.

Though this can obviously result in wide variations in performance from the same song data on different GM sound sources, the authors of General MIDI felt it important to allow each manufacturer to have their own ideas and express their personal aesthetics when it comes to picking the exact timbres for each sound.

Each manufacturer must insure that their sounds provide an acceptable representation of song data written for General MIDI. Guidelines for developing GM compatible sound sets and song data are available through the MMA.

- The names of the instruments indicate what sort of sound will be heard when that instrument number (MIDI Program Change or "PC#") is selected on the GM1 synthesizer.
- These sounds are the same for all MIDI Channels except Channel 10, which has only percussion sounds and some sound "effects". (See ["GM1 Percussion Key Map"](#) )

General MIDI Level 1 Instrument Families			
The General MIDI Level 1 instrument sounds are grouped by families. In each family are 8 specific instruments.			
PC#	Family Name	PC#	Family Name
1-8	Piano	65-72	Reed
9-16	Chromatic Percussion	73-80	Pipe
17-24	Organ	81-88	Synth Lead
25-32	Guitar	89-96	Synth Pad
33-40	Bass	97-104	Synth Effects
41-48	Strings	105-112	Ethnic
49-56	Ensemble	113-120	Percussive
57-64	Brass	121-128	Sound Effects

General MIDI Level 1 Instrument Patch Map			
<b>Note:</b> While GM1 does not define the actual characteristics of any sounds, the names in parentheses after each of the synth leads, pads, and sound effects are, in particular, intended only as guides).			
PC#	Instrument Name	PC#	Instrument Name
1.	Acoustic Grand Piano	65.	Soprano Sax
2.	Bright Acoustic Piano	66.	Alto Sax
3.	Electric Grand Piano	67.	Tenor Sax
4.	Honky-tonk Piano	68.	Baritone Sax
5.	Electric Piano 1	69.	Oboe
6.	Electric Piano 2	70.	English Horn
7.	Harpsichord	71.	Bassoon
8.	Clavi	72.	Clarinet
9.	Celesta	73.	Piccolo
10.	Glockenspiel	74.	Flute

11.	Music Box	75.	Recorder
12.	Vibraphone	76.	Pan Flute
13.	Marimba	77.	Blown Bottle
14.	Xylophone	78.	Shakuhachi
15.	Tubular Bells	79.	Whistle
16.	Dulcimer	80.	Ocarina
17.	Drawbar Organ	81.	Lead 1 (square)
18.	Percussive Organ	82.	Lead 2 (sawtooth)
19.	Rock Organ	83.	Lead 3 (calliope)
20.	Church Organ	84.	Lead 4 (chiff)
21.	Reed Organ	85.	Lead 5 (charang)
22.	Accordion	86.	Lead 6 (voice)
23.	Harmonica	87.	Lead 7 (fifths)
24.	Tango Accordion	88.	Lead 8 (bass + lead)
25.	Acoustic Guitar (nylon)	89.	Pad 1 (new age)
26.	Acoustic Guitar (steel)	90.	Pad 2 (warm)
27.	Electric Guitar (jazz)	91.	Pad 3 (polysynth)
28.	Electric Guitar (clean)	92.	Pad 4 (choir)
29.	Electric Guitar (muted)	93.	Pad 5 (bowed)
30.	Overdriven Guitar	94.	Pad 6 (metallic)
31.	Distortion Guitar	95.	Pad 7 (halo)
32.	Guitar harmonics	96.	Pad 8 (sweep)
33.	Acoustic Bass	97.	FX 1 (rain)
34.	Electric Bass (finger)	98.	FX 2 (soundtrack)
35.	Electric Bass (pick)	99.	FX 3 (crystal)
36.	Fretless Bass	100.	FX 4 (atmosphere)
37.	Slap Bass 1	101.	FX 5 (brightness)
38.	Slap Bass 2	102.	FX 6 (goblins)
39.	Synth Bass 1	103.	FX 7 (echoes)
40.	Synth Bass 2	104.	FX 8 (sci-fi)
41.	Violin	105.	Sitar
42.	Viola	106.	Banjo
43.	Cello	107.	Shamisen
44.	Contrabass	108.	Koto
45.	Tremolo Strings	109.	Kalimba
46.	Pizzicato Strings	110.	Bag pipe
47.	Orchestral Harp	111.	Fiddle
48.	Timpani	112.	Shanai
49.	String Ensemble 1	113.	Tinkle Bell
50.	String Ensemble 2	114.	Agogo
51.	SynthStrings 1	115.	Steel Drums
52.	SynthStrings 2	116.	Woodblock
53.	Choir Aahs	117.	Taiko Drum

54.	Voice Oohs	118.	Melodic Tom
55.	Synth Voice	119.	Synth Drum
56.	Orchestra Hit	120.	Reverse Cymbal
57.	Trumpet	121.	Guitar Fret Noise
58.	Trombone	122.	Breath Noise
59.	Tuba	123.	Seashore
60.	Muted Trumpet	124.	Bird Tweet
61.	French Horn	125.	Telephone Ring
62.	Brass Section	126.	Helicopter
63.	SynthBrass 1	127.	Applause
64.	SynthBrass 2	128.	Gunshot

### General MIDI Level 1 Percussion Key Map

On MIDI Channel 10, each MIDI Note number ("Key#") corresponds to a different drum sound, as shown below. GM-compatible instruments must have the sounds on the keys shown here. While many current instruments also have additional sounds above or below the range show here, and may even have additional "kits" with variations of these sounds, only these sounds are supported by General MIDI Level 1 devices.

Key#	Drum Sound	Key#	Drum Sound
35/B1	Acoustic Bass Drum	59/B3	Ride Cymbal 2
36/C2	Bass Drum 1	60/C4	Hi Bongo
37/Cb2	Side Stick	61/Db4	Low Bongo
38/D2	Acoustic Snare	62/D4	Mute Hi Conga
39/Eb2	Hand Clap	63/Eb4	Open Hi Conga
40/E2	Electric Snare	64/E4	Low Conga
41/F2	Low Floor Tom	65/F4	High Timbale
42/Gb2	Closed Hi Hat	66/Gb4	Low Timbale
43/G2	High Floor Tom	67/G4	High Agogo
44/Ab2	Pedal Hi-Hat	68/Ab4	Low Agogo
45/A2	Low Tom	69/A4	Cabasa
46/Bb2	Open Hi-Hat	70/Bb4	Maracas
47/B2	Low-Mid Tom	71/B4	Short Whistle
48/C3	Hi-Mid Tom	72/C5	Long Whistle
49/Db3	Crash Cymbal 1	73/Db5	Short Guiro
50/D3	High Tom	74/D5	Long Guiro
51/Eb3	Ride Cymbal 1	75/Eb5	Claves
52/E3	Chinese Cymbal	76/E5	Hi Wood Block
53/F3	Ride Bell	77/F5	Low Wood Block
54/Gb3	Tambourine	78/Gb5	Mute Cuica
55/G3	Splash Cymbal	79/G5	Open Cuica
56/Ab3	Cowbell	80/Ab5	Mute Triangle
57/A3	Crash Cymbal 2	81/A5	Open Triangle
58/Bb3	Vibraslap		

## **General MIDI 2 (Expanded Range)**

27/Eb1 High Q

28/E1 Slap

29/F1 Scratch Push

30/Gb1 Scratch Pull

31/G1 Sticks

32/Ab1 Square Click

33/A1 Metronome Click

34/Bb1 Metronome Bell

82/Bb5 Shaker (GM2)

83/B5 Jingle Bell (GM2)

84/C5 Belltree (GM2)

85/Db5 Castanets (GM2)

86/D5 Mute Surdo (GM2)

87/Eb5 Open Surdo (GM2)