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General MIDI Level 1 Instrument Patch Map

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". GM1 Instrument Families

The General MIDI Level 1 instrument sounds are grouped by families. In each family are 8 specific instruments.

PC#	Family	PC#	Family
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

GM1 Instrument Patch Map

Note: 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). Newer models such as the OkyWeb2 contain a broader range of sounds.

PC#	Instrument		
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

GM1 Instrument Patch Map

Patch Number	Drum Set Name	Description
1	Standard Kit	The General MIDI Standard drum kit. The only kit specified by General MIDI Level 1.
9	Room Kit	Similar to the Standard kit but with more ambient percussive sounds.
17	Power Kit	Similar to the Standard kit but with more powerful kick and snare sounds.
25	Electronic Kit	Made up of sounds emulating those of various electronic drum machines.
26	TR-808 Kit	Analog drum kit that is reminiscent of the Roland TR-808 Rhythm Machine.
33	Jazz Kit	Jazz styled set that is nearly identical to the Standard kit.
41	Brush Kit	Similar to the Standard kit, but with many brush sounds added.
49	Orchestra Kit	An immense collection of concert drums and timpani for orchestral styled music.
57	Sound FX Kit	A collection of sound effects. Also found in melodic patches 121 - 128, various banks.
128	CM-64/CM-32L	The standard MT-32 Drum Kit with percussion at the bottom and sound effects on top.

Standard Kit to TR-808 Kit 9note – some earlier GM models contain the Standard set only. Newer models such as the OkyWeb2 contain the full GM/GS drum set

Note / Key	Standard	Room	Power	Electronic	TR-808
D#0	High Q	High Q	High Q	High Q	High Q
E0	Slap	Slap	Slap	Slap	Slap
F0	Scratch Push	Scratch Push	Scratch Push	Scratch Push	Scratch Push
F#0	Scratch Pull	Scratch Pull	Scratch Pull	Scratch Pull	Scratch Pull
G0	Sticks	Sticks	Sticks	Sticks	Sticks
G#0	Square Click	Square Click	Square Click	Square Click	Square Click
A0	Metronome Click	Metronome Click	Metronome Click	Metronome Click	Metronome Click
A#0	Metronome Bell	Metronome Bell	Metronome Bell	Metronome Bell	Metronome Bell
B0	Kick Drum 2	Kick Drum 2	Kick Drum 2	Kick Drum 2	Kick Drum 2
C1	Kick Drum 1	Kick Drum 1	Mondo Kick	Elec BD	808 Bass Drum
C#1	Side Stick	Side Stick	Side Stick	Side Stick	808 Rim Shot
D1	Snare Drum 1	Snare Drum 1	Gated SD	Elec SD	808 Snare Drum
D#1	Hand Clap	Hand Clap	Hand Clap	Hand Clap	Hand Clap
E1	Snare Drum 2	Snare Drum 2	Snare Drum 2	Gated SD	Snare Drum 2

F1	Low Tom 2	Room Lo Tom 2	Room Lo Tom 2	Elec Lo Tom 2	808 Low Tom 2
F#1	Closed Hi-Hat	Closed Hi-Hat	Closed Hi-Hat	Closed Hi-Hat	808 Closed Hi-Hat
G1	Low Tom 1	Room Lo Tom 1	Room Lo Tom 1	Elec Lo Tom 1	808 Low Tom 1
G#1	Pedal Hi-Hat	Pedal Hi-Hat	Pedal Hi-Hat	Pedal Hi-Hat	808 Closed Hi-Hat
A1	Mid Tom 2	Room Mid Tom 2	Room Mid Tom 2	Elec Mid Tom 2	808 Mid Tom 2
A#1	Open Hi-Hat	Open Hi-Hat	Open Hi-Hat	Open Hi-Hat	808 Closed Hi-Hat
B1	Mid Tom 1	Room Mid Tom 1	Room Mid Tom 1	Elec Mid Tom 1	808 Mid Tom 1
C2	High Tom 2	Room Hi Tom 2	Room Hi Tom 2	Elec Hi Tom 2	808 High Tom 2
C#2	Crash Cymbal	Crash Cymbal	Crash Cymbal	Crash Cymbal	808 Cymbal
D2	High Tom 1	Room Hi Tom 1	Room Hi Tom 1	Elec Hi Tom 1	808 High Tom 1
D#2	Ride Cymbal	Ride Cymbal	Ride Cymbal	Ride Cymbal	Ride Cymbal
E2	Chinese Cymbal	Chinese Cymbal	Chinese Cymbal	Reverse Cymbal	Reverse Cymbal
F2	Ride Bell	Ride Bell	Ride Bell	Ride Bell	Ride Bell
F#2	Tambourine	Tambourine	Tambourine	Tambourine	Tambourine
G2	Splash Cymbal	Splash Cymbal	Splash Cymbal	Splash Cymbal	Splash Cymbal
G#2	Cowbell	Cowbell	Cowbell	Cowbell	808 Cowbell
A2	Crash Cymbal 2	Crash Cymbal 2	Crash Cymbal 2	Crash Cymbal 2	Crash Cymbal 2
A#2	Vibra-Slap	Vibra-Slap	Vibra-Slap	Vibra-Slap	Vibra-Slap
B2	Ride Cymbal 2	Ride Cymbal 2	Ride Cymbal 2	Ride Cymbal 2	Ride Cymbal 2
C3	High Bongo	High Bongo	High Bongo	High Bongo	High Bongo
C#3	Low Bongo	Low Bongo	Low Bongo	Low Bongo	Low Bongo
D3	Mute Hi Conga	Mute Hi Conga	Mute Hi Conga	Mute Hi Conga	808 High Conga
D#3	Open Hi Conga	Open Hi Conga	Open Hi Conga	Open Hi Conga	808 Mid Conga
E3	Low Conga	Low Conga	Low Conga	Low Conga	808 Low Conga
F3	High Timbale	High Timbale	High Timbale	High Timbale	High Timbale
F#3	Low Timbale	Low Timbale	Low Timbale	Low Timbale	Low Timbale
G3	High Agogo	High Agogo	High Agogo	High Agogo	High Agogo
G#3	Low Agogo	Low Agogo	Low Agogo	Low Agogo	Low Agogo
A3	Cabasa	Cabasa	Cabasa	Cabasa	Cabasa
A#3	Maracas	Maracas	Maracas	Maracas	808 Maracas
B3	Short Hi Whistle	Short Hi Whistle	Short Hi Whistle	Short Hi Whistle	Short Hi Whistle
C4	Long Lo Whistle	Long Lo Whistle	Long Lo Whistle	Long Lo Whistle	Long Lo Whistle
C#4	Short Guiro	Short Guiro	Short Guiro	Short Guiro	Short Guiro
D4	Long Guiro	Long Guiro	Long Guiro	Long Guiro	Long Guiro
D#4	Claves	Claves	Claves	Claves	808 Claves
E4	High Woodblock	High Woodblock	High Woodblock	High Woodblock	High Woodblock
F4	Low Woodblock	Low Woodblock	Low Woodblock	Low Woodblock	Low Woodblock
F#4	Mute Cuica	Mute Cuica	Mute Cuica	Mute Cuica	Mute Cuica
G4	Open Cuica	Open Cuica	Open Cuica	Open Cuica	Open Cuica
G#4	Mute Triangle	Mute Triangle	Mute Triangle	Mute Triangle	Mute Triangle
A4	Open Triangle	Open Triangle	Open Triangle	Open Triangle	Open Triangle
A#4	Shaker	Shaker	Shaker	Shaker	Shaker
B4	Jingle Bell	Jingle Bell	Jingle Bell	Jingle Bell	Jingle Bell
C5	Belltrees	Belltrees	Belltrees	Belltrees	Belltrees
C#5	Castanets	Castanets	Castanets	Castanets	Castanets
D5	Mute Surdo	Mute Surdo	Mute Surdo	Mute Surdo	Mute Surdo
D#5	Open Surdo	Open Surdo	Open Surdo	Open Surdo	Open Surdo

Jazz Kit to CM64/32L Kit

Note / Key	Jazz	Brush	Orchestra	Sound FX	CM64/32L
D#0	High Q	High Q	Closed Hi-Hat	-	-
E0	Slap	Slap	Pedal Hi-Hat	-	-
F0	Scratch Push	Scratch Push	Open Hi-Hat	-	-
F#0	Scratch Pull	Scratch Pull	Ride Cymbal	-	-
G0	Sticks	Sticks	Sticks	-	-
G#0	Square Click	Square Click	Square Click	-	-
A0	Metronome Click	Metronome Click	Metronome Click	-	-
A#0	Metronome Bell	Metronome Bell	Metronome Bell	-	-
B0	Jazz BD 2	Jazz BD 2	Concert BD 2	-	Acoustic Bass Drum
C1	Jazz BD 1	Jazz BD 1	Concert BD 1	-	Acoustic Bass Drum
C#1	Side Stick	Side Stick	Side Stick	-	Rim Shot
D1	Snare Drum 1	Brush Tap	Concert SD	-	Acoustic Snare Drum
D#1	Hand Clap	Brush Slap	Castanets	High Q	Hand Clap
E1	Snare Drum 2	Brush Swirl	Concert SD	Slap	Electronic Snare Drum
F1	Low Tom 2	Low Tom 2	Tympani F	Scratch Push	Acoustic Low Tom
F#1	Closed Hi-Hat	Closed Hi-Hat	Tympani F#	Scratch Pull	Closed Hi-Hat
G1	Low Tom 1	Low Tom 1	Tympani G	Sticks	Acoustic Low Tom
G#1	Pedal Hi-Hat	Pedal Hi-Hat	Tympani G#	Square Click	Open Hi-Hat 1
A1	Mid Tom 2	Mid Tom 2	Tympani A	Metronome Click	Acoustic Mid Tom
A#1	Open Hi-Hat	Open Hi-Hat	Tympani A#	Metronome Bell	Open Hi-Hat 2
B1	Mid Tom 1	Mid Tom 1	Tympani B	Guitar Fret Noise	Acoustic Mid Tom
C2	High Tom 2	High Tom 2	Tympani C	Guitar Cut Noise Up	Acoustic Hi Tom
C#2	Crash Cymbal	Crash Cymbal	Tympani C#	Guitar Cut Noise Down	Crash Cymbal
D2	High Tom 1	High Tom 1	Tympani D	Double Bass String Slap	Acoustic Hi Tom
D#2	Ride Cymbal	Ride Cymbal	Tympani D#	Flute Key Click	Ride Cymbal
E2	Chinese Cymbal	Chinese Cymbal	Tympani E	Laughing	-
F2	Ride Bell	Ride Bell	Tympani F	Screaming	-
F#2	Tambourine	Tambourine	Tambourine	Punch	Tambourine
G2	Splash Cymbal	Splash Cymbal	Splash Cymbal	Heartbeat	-
G#2	Cowbell	Cowbell	Cowbell	Footsteps 1	Cowbell
A2	Crash Cymbal 2	Crash Cymbal 2	Concert Cymbal 2	Footsteps 2	-
A#2	Vibra-Slap	Vibra-Slap	Vibra-Slap	Applause	-
B2	Ride Cymbal 2	Ride Cymbal 2	Concert Cymbal 1	Door Creaking	-
C3	High Bongo	High Bongo	High Bongo	Door Closing	High Bongo
C#3	Low Bongo	Low Bongo	Low Bongo	Scratch	Low Bongo
D3	Mute Hi Conga	Mute Hi Conga	Mute Hi Conga	Wind Chimes	Mute Hi Conga
D#3	Open Hi Conga	Open Hi Conga	Open Hi Conga	Car Engine	High Conga
E3	Low Conga	Low Conga	Low Conga	Car Brakes	Low Conga
F3	High Timbale	High Timbale	High Timbale	Car Passing	High Timbale
F#3	Low Timbale	Low Timbale	Low Timbale	Car Crash	Low Timbale
G3	High Agogo	High Agogo	High Agogo	Siren	High Agogo

G#3	Low Agogo	Low Agogo	Low Agogo	Train	Low Agogo
A3	Cabasa	Cabasa	Cabasa	Jet Plane	Cabasa
A#3	Maracas	Maracas	Maracas	Helicopter	Maracas
B3	Short Hi Whistle	Short Hi Whistle	Short Hi Whistle	Starship	Short Whistle
C4	Long Lo Whistle	Long Lo Whistle	Long Lo Whistle	Gun Shot	Long Whistle
C#4	Short Guiro	Short Guiro	Short Guiro	Machine Gun	Quijada
D4	Long Guiro	Long Guiro	Long Guiro	Laser Gun	-
D#4	Claves	Claves	Claves	Explosion	Claves
E4	High Woodblock	High Woodblock	High Woodblock	Dog Bark	Laughing
F4	Low Woodblock	Low Woodblock	Low Woodblock	Horse Gallop	Screaming
F#4	Mute Cuica	Mute Cuica	Mute Cuica	Birds Tweet	Punch
G4	Open Cuica	Open Cuica	Open Cuica	Rain	Heartbeat
G#4	Mute Triangle	Mute Triangle	Mute Triangle	Thunder	Footsteps 1
A4	Open Triangle	Open Triangle	Open Triangle	Wind	Footsteps 2
A#4	Shaker	Shaker	Shaker	Seashore	Applause
B4	Jingle Bell	Jingle Bell	Jingle Bell	Stream	Door Creaking
C5	Belltrees	Belltrees	Belltrees	Bubble	Door Closing
C#5	Castanets	Castanets	Castanets	-	Scratch
D5	Mute Surdo	Mute Surdo	Mute Surdo	-	Wind Chimes
D#5	Open Surdo	Open Surdo	Open Surdo	-	Car Engine
E5	-	-	-	-	Car Brakes
F5	-	-	-	-	Car Passing
F#5	-	-	-	-	Car Crash
G5	-	-	-	-	Siren
G#5	-	-	-	-	Train
A5	-	-	-	-	Jet Plane
A#5	-	-	-	-	Helicopter
B5	-	-	-	-	Starship
C6	-	-	-	-	Gun Shot
C#6	-	-	-	-	Machine Gun
D6	-	-	-	-	Laser Gun
D#6	-	-	-	-	Explosion
E6	-	-	-	-	Dog Bark
F6	-	-	-	-	Horse Gallop
F#6	-	-	-	-	Birds Tweet
G6	-	-	-	-	Rain
G#6	-	-	-	-	Thunder
A6	-	-	-	-	Wind
A#6	-	-	-	-	Seashore
B6	-	-	-	-	Stream
C7	-	-	-	-	Bubble