

Appendix E

MIDI Setups

The PC88 is programmed with factory MIDI Setups to provide you with useful internal program combinations, unique arpeggiator examples, and appropriate templates for easy creation of custom setups. There are 32 standard Setups and an additional 32 VGM Setups

With 17 assignable controllers shared among four independent zones, PC88 MIDI Setups can be quite complex. The following list describes the features of each factory MIDI Setup, including any non-default controller assignments, special application notes, and “serving suggestions”. Since most zones have Wheel 1 assigned to Pitch Bend, Wheel 2 assigned to Modulation, and Switch Pedals 1 and 2 assigned to sustain and sostenuto, they will not be mentioned.

Standard Setups

- 1 A Piano Trio **B** fades Ride. **D** is Tempo. **F** goes to Vibes (Zone 1). **G** engages add-mode arpeggio for “sequencing” a bass line.
- 2 E Piano Trio Activate Zone 3 to add Strings. **B** fades ride. **C** is Strings filter. **D** is Tempo. **F** goes to Jazz Organ (Zone 1). **G** engages add-mode Arpeggiator for “sequencing” a bass line.
- 3 Rhythm Pad **B** is Marimba volume. **C** is Strings volume. **D** is Tempo.
- 4 Dynamic 5ths **A** pans Zone 1. **B** pans Zone 2. **G** is the overplay latch: Hold a note while pressing **G** for Arpeggiation.
- 5 Stereo E Grand **A** and **B** are tremolo depth and rate for Zone 1.
- 6 Harpsi & String **A** is Harpsichord volume. **B** is String volume. **E** pans each zone (via entry state).
- 7 SoloPno>Gtrs **A** is reverb wet. **B** is chorus wet. This setup enters with Electric Grand soloed. Press the solo button to activate Zones 2 and 3 and mute Zone 1.
- 8 Pedals Harpsi Switch pedals are in Toggle mode. **SwPd1** sends MIDI 70 (adds lower octave); **SwPd2** sends soft pedal.
- 9 Deep Guitar **A** is reverb wet. **B** is chorus wet. **E** disables clav’s release sound.
- 10 Keyboard Comp **A** is Rock Organ volume. **B** is Bright Piano volume **D** is Delay wet. Left hand has velocity switching from pad to E Pno.
- 11 Bass&Dyn5ths **A** pans Marimba and Clav. **B** pans Digital E Pno. **C** is volume for the upper parts. **D** is volume for Clav.
- 12 Lead Stack **A** is Zone 1 volume. **B** is Zone 2 volume. **C** is Zone 3 volume.
- 13 Island Roller **A** is Bass&Ride volume **B** fades the Ride. **C** is the pad volume. Arpeggiator is always running; **Whl2** and **SwPed1** both control Arp Velocity. Works best with two notes in the right hand. **D** is tempo.
- 14 Forecast **A** is Bass volume. **B** is E Pno volume. **Whl2** is E Pno tremolo depth. **C** is E Pno tremolo rate. **D** is Ride volume. **Pressure** does PitchBend down on Bass. **G** is Arpeggio latch: Hold the lowest 3 keys and Press **G** to latch a rhythmic ride pattern.
- 15 Wet Stuff **A** pans Zone 1. **B** pans Zone 2. Soft strikes are pad only.

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| 16 | Volume Sliders | Template: Used for the tutorial in Chapter 1 of this book. All settings are default, except for program and slider assignments. A is Zone 1 volume. B is Zone 2 volume. C is Zone 3 volume. D is Zone 4 volume. |
| 17 | FluidGtr & Vibe | A is reverb wet. B is chorus wet. |
| 18 | Click & Trio | A is reverb wet. B fades Ride. C and Whl2 are Click volume. F goes to A Bass & Ride (Zone 1). G latches the Arpeggiator in Add mode to “sequence” the click (A0-A#0). |
| 19 | E Bass/ E Pno | Activate Zone3 to add Strings. C is Strings volume. |
| 20 | Duo Comp 1 | A is reverb wet. B is chorus wet. |
| 21 | Vtrig E Piano | A is reverb wet. B is chorus wet. Percussive Marimba is triggered only on accented notes. |
| 22 | Shift Limits! | Example: Note shifts with the floating limit option. SwitchPdl2 stops the arpeggiation and allows normal playing. |
| 23 | Three Things | A pans Zone 1. B pans Zone 2. C is Marimba volume. Pressure sends Pitch Bend on Zone 1. G is the overlay latch: Hold a note while pressing G for Arpeggiation. |
| 24 | dingalingling | Example: Note shifts with the stop option. C is reverb wet. D is tempo. G is the Add-mode latch. |
| 25 | Arps on Top | B is Zone 2 (arpeggio) volume. C is Strings volume. D is Tempo. SwitchPdl1 is Sostenuuto for Strings. |
| 26 | Sustain E Piano | A is the pad volume. |
| 27 | Enter & Xfade | Example: Reverse curves and entry values. A controls volume of the low Strings, and <i>inverse</i> volume of the high Strings. Curves and entry values are set for a smooth octave crossfade: Hold a chord and move A from top to bottom. B is delay wet. C is strings filter. D is release control. |
| 28 | Marimba Thing | A pans Zone 1. B pans Zone 2. |
| 29 | Click/Ride | Template: Copy Zone 1 to use the layered ride in another setup; Copy Zone 2 and the arpeggiator to add the automatic Click to another setup. A is Ride volume. B is Click volume. D is tempo. G is the add-mode latch. |
| 30 | Pan Sliders | Template: Program Entry Transmit is off for all zones. Selecting this setup will not change programs. Move to this setup to play with panning on any 4 channels while mixing. A pans Zone 1. B pans Zone 2. C pans Zone 3. D pans Zone 4. |
| 31 | MIDI Template | Template: Destination is MIDI-only for all zones. Start with this setup for use with external gear. A is Zone 1 volume (MIDI channel 1). B is Zone 2 volume (MIDI channel 2). C is Zone 3 volume (MIDI channel 3). D is Zone 4 volume (MIDI channel 4). Exit values are 127 for all sliders. |
| 32 | Local Template | Template: Destination is Local only for all zones. Start with this setup when you do not want zones to send MIDI out. A is Zone 1 volume. B is Zone 2 volume. C is Zone 3 volume. D is Zone 4 volume. Exit values are 127 for all sliders. |
| 127 | Default Setup | All Zones are Off and have “default” assignments: Pitch Bend, Mod Wheel, Sustain and Sostenuuto. All sliders, buttons, key pressure and CC pedals are unassigned. All controller scalings are 100%, curves are linear, and offsets are 0. Copy this Setup to a location that you find “handy” and use it as a starting point for making your own setups. |



VGM Setups

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| 33 | 64 E Grnd & Str | Zones 1 and 2 are set to matching programs in the Internal Voices and 64-note Poly banks, and play odd and even note ranges. Activate Zone 4 to add 8va Choir. C is strings filter. D is Strings release control. |
| 34 | Piano Combi | A pans Zone 1(pad). B is internal reverb wet. |
| 35 | light 'n airy | A pans Zone 1. B is internal reverb wet. D is Tempo. G turns the Arpeggiator on. |
| 36 | auto-halo | A pans Zone 1. B is internal reverb wet. D is Tempo. G turns the Arpeggiator off. |
| 37 | Duo Comp w/Bass | A is internal reverb wet. B is internal chorus wet. |
| 38 | Fanfare | A is Zone 1 volume. B is Zone 2 volume. E pans each zone. |
| 39 | Arps on Strings | A is Zone 1 volume (french horn). B is Zone 2 volume (low strings). C is Zone 3 volume (arpegg. strings). D is Tempo. |
| 40 | Harp Accents | Activate Zone 3 to add Guitar. Activate Zone 4 to add Strings. A is Zone 1 volume. C is Zone 3 volume. D is Zone 4 volume. |
| 41 | Meditation | A is internal reverb wet. B is internal chorus wet. |
| 42 | CathedralPipes | A is Zone 1 volume. B is Zone 2 volume. C is Zone 3 volume. D is Zone 4 volume. |
| 43 | Fusioner | A is internal reverb wet. B is internal chorus wet. |
| 44 | Jazz Comp | No assignments beyond the defaults and some velocity scaling. |
| 45 | Calypso | B is Jazz Guitar volume. |
| 46 | Layer Lead | Activate Zones 1 and 2 to add guitar layers. SwitchPdl1 does not send sustain on Zone 4. |
| 47 | Tooty Leads | A is Zone 1 volume. B is Zone 2 volume. C is Zone 3 volume. E pans zones 1 and 3. |
| 48 | Bird Pad | Activate Zone 2 to add Slo Vibes pad. A is Zone 1 volume(strings). B is Zone 2 volume(vibes). C is Zone 3 volume (surf). D is Zone 4 volume(birds). E pans zones 1 and 3 (via entry state). |
| 49 | 64-note Piano | Template: Odd-even zones for 64-note polyphony. There are 19 programs available in the 64-note Poly bank. Select Zone 2 and find others using the program parameter. Then, on Zone 1, choose the matching program number from the Internal Voices bank. |
| 50 | Synth Stack | A pans Zone 1. B is internal reverb wet. |
| 51 | Latin Funk | A is percussion volume. B and C are E Pno tremolo rate and depth. D is tempo. G sends Volume 0 to percussion. SwitchPdl2 is a toggle-mode arpeggiator latch. The Percussion Zone is set to odd notes, which creates rests in the arpeggiation. Play keys C0 and B0 (softer) and hold while pressing the latch pedal. Then play with the "shuffle sequence". |
| 52 | Steppin' | A is piano volume. B is bass volume. C fades Ride. D is Tempo. SwPdl2 is the pedals mode Arp. latch. |
| 53 | Delightful | A is VGM reverb wet. B is Guitar volume. C is Strings filter. D is tempo. F doubles the tempo. G is Latch2 (for overplay). |

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| 54 | Slow Orchestra | Activate Zone3 for 8vb Cello in the tenor range. A is upper orch. volume. B is flute volume. C is cello volume. D is lower orch volume. E pans zones 1 and 3. SwitchPdl2 changes right-hand Double Reeds to Brass. |
| 55 | Pressure Orch | Example: Arpeggiator for drum rolls. Arpeggio plays on Timpani and Snare Drum (Zones 3 and 4), with velocity controlled by Pressure . Play any single note from G1 - F#2, and press for a crescendo roll. C and D are volume for Snare and Timpani. SwitchPdl2 does Sostenuito and disables Brass. Hardest strike triggers Crash (Zone 2). |
| 56 | Plucky Orch | A is Zone 1 volume. B is Zone 2 volume. C is Zone 3 volume. |
| 57 | Smooth Leads | A is Zone 1 volume. B is Zone 2 volume. C is Zone 3 volume. E pans zones 1 and 3. |
| 58 | Meditation 2 | A is internal reverb wet. B is internal chorus wet. |
| 59 | Soft Big Band | Activate Zone 3 to add Bari Sax. Activate Zone 4 to add Trumpet. A is soft section volume. B is soft lead volume. C is trumpet volume. D is bari volume. E pans Zone 2. |
| 60 | Rhythm/BigBand | A is soft section volume. B is alto volume. C fades Ride. D is brass volume. E pans Zone 2 (via entry state). Soft strikes play soft horns only. |
| 61 | Mello Guitars | A is Zone 1 volume. B is Zone 2 volume. C is Zone 3 volume. |
| 62 | Horn Lead | A is Zone 1 volume. B is Zone 2 volume. E pans zones 1 and 2. |
| 63 | Plunkers | A is Zone 1 volume. B is Zone 2 volume. E pans zones 1 and 2. |
| 64 | Scary Stuff | A is Zone 1 volume. B is internal delay wet. C sends Pitch Up on Zone 4. |

Application Notes

While you play through the Setups, remember that after moving controllers and changing zone status, you can always re-select the current setup (by pressing the same Setup Select button again) in order to re-send all entry values. Similarly, you might use the Panic button to reset all controllers, then re-select the setup in order to insure that each MIDI channel is playing the intended controller values.

Make your own.

There are many ways to program the PC88 to fully automate a multi-synthesizer rig for quick-access live performance. When you are preparing the PC88 for a live performance, the Default Setup (#127), the Volume Sliders, Local Template, and MIDI Template setups are recommended starting points. The Default Setup's parameters are shown on the following page.

"Mock Synthesis"

Most people are surprised at the amazing sonic potential in a synthesizer with no actual program editing. The good news is that this potential exists for any MIDI sound module under the PC88's control! The PC88 does its thing with standard MIDI commands, mostly with the Continuous Control Messages. Like program changes and notes, these messages are sent on a per-channel basis. Once received, the slave device responds accordingly, until it receives another message of the same type, or is told to reset somehow. If you move a MIDI volume slider down, the receiver will lower that channel's volume until it receives a new volume message, or is told to reset.

Why is the Panic button important?

Consider this example: There are two single-zone MIDI setups, each playing the same MIDI channel. The first setup has a slider sending Volume, while the second has the *same* slider set to send Pan. You could accidentally leave the first setup with the slider down, and not hear anything when you try to use the second setup. The entry and exit value parameters are a good way to keep this from happening, but it is not always desirable to program setups in that way. Even the factory MIDI setups do not always send exit values. A common practice is to use the Panic button. Press it once and it sends the Reset all Controllers message. This tells the receivers to return Modulation to 0, Volume to 127, Pan to 64, and so on. Whenever you're not sure a setup is playing all its controllers from the intended starting position, simply press panic and re-select the setup.

Default Setup Parameters (Generic Template)

Shown below are the Setup parameters for Setup 127 "Default Setup", which is provided as a generic template with most of its parameters set to their defaults or most basic values.

| Setup:127 Default Setup | | | | Zones 1-4 | | | | | | |
|----------------------------|------------|-------------|-------------|-----------|----------|----------|-----------|-----------|----------|-----|
| MIDI Transmit | | Cont. Ctls | ctl # | scale | offset | curve | entry val | exit val | | |
| MIDI channel | off | | wheel1 up | ptch up | 100% | 0 | linear | none | none | |
| destination | Lcl+MIDI | | wheel1 down | ptchdwn | 100% | 0 | linear | none | none | |
| bndrng | 2 ST 0 ct | | wheel 2 | 1 | 100% | 0 | linear | none | none | |
| | | mpressure | | none | 100% | 0 | linear | none | none | |
| Program | | | | none | 100% | 0 | linear | none | none | |
| bank | Int Voices | | slider A | none | 100% | 0 | linear | none | none | |
| program | - | | slider B | none | 100% | 0 | linear | none | none | |
| entry transmit | on | | slider C | none | 100% | 0 | linear | none | none | |
| bank mode | 0/32 | | slider D | none | 100% | 0 | linear | none | none | |
| prog # display | 1-128 | | pedal 1 | none | 100% | 0 | linear | none | none | |
| prog name display | Internal | | pedal 2 | none | 100% | 0 | linear | none | none | |
| | | | pedal 3 | none | 100% | 0 | linear | none | none | |
| | | | pedal 4 | none | 100% | 0 | linear | none | none | |
| Key Range/ Note Map | | | | | | | | | | |
| | | Switch Ctls | type | on ctl | on val | off ctl | off val | entry val | exit val | |
| Transpose | | | 0 | | | | | | | |
| | | | button E | toggle | none | none | none | none | off | off |
| | | | button F | momt. | none | none | none | none | off | off |
| | | | button G | toggle | none | none | none | none | off | off |
| Velocity | | sw pedal 1 | momt. | 64 | 127 | 64 | 0 | none | none | |
| | | sw pedal 2 | momt. | 66 | 127 | 66 | 0 | none | none | |
| | | | | | | | | | | |
| scale | | Setup | act | key rng | latch md | play ord | beats | tempo | duratn | |
| offset | | | off | c-1 to g9 | off | played | 1/16th | 120 | 100% | |
| curve | | | Functions | velmode | fix vel | notesht | shftlimt | limtopt | gliss | |
| min-max | | | | played | 100 | 0 | 24 | uni | off | |
| Arpeggiator Zone Enable | | on | | | | | | | | |

Default Controller Assignments (Internal Voices)

These are the factory-default controller assignments for the Internal Voices (Zone 1 only).

Zones 2, 3, and 4 are OFF in Internal Voices mode. Parameters of these zones are assigned as in Setup 127, "Default Setup". Effects are preset for each Internal Voice and are user-assignable.

| Setup:Internal Voices Default | | | | Zone 1 | | | | | |
|-------------------------------|-----------|-------------|-------------|---------|--------|--------|-----------|----------|------|
| MIDI Transmit | | Cont. Ctls | ctl # | scale | offset | curve | entry val | exit val | |
| MIDI channel | 1 | | wheel1 up | ptch up | 100% | 0 | linear | none | none |
| destination | Lcl+MIDI | | wheel1 down | ptchdwn | 100% | 0 | linear | none | none |
| bndrng | 2 ST 0 ct | | wheel 2 | 1 | 100% | 0 | linear | none | none |
| Program | | | mpressure | mpress | 100% | 0 | linear | none | none |
| | | | slider A | 91 | 25% | 10 | linear | none | none |
| | | | slider B | 93 | 100% | 0 | linear | none | none |
| | | | slider C | 4 | 100% | 0 | linear | none | none |
| | | | slider D | 72 | 100% | 0 | linear | none | none |
| | | | pedal 1 | 11 | 100% | 0 | linear | none | none |
| | | pedal 2 | 4 | 100% | 0 | linear | none | none | |
| | | pedal 3 | none | 100% | 0 | linear | none | none | |
| | | pedal 4 | none | 100% | 0 | linear | none | none | |
| Key Range/ Note Map | | Switch Ctls | | | | | | | |
| | C-1to G9 | | | | | | | | |
| | linear | | | | | | | | |
| Transpose | | | | | | | | | 0 |
| Velocity | | | | | | | | | |
| scale | 100% | | | | | | | | |
| offset | 0 | | | | | | | | |
| curve | linear | | | | | | | | |
| min-max | 1-127 | | | | | | | | |
| Arpeggiator Zone Enable | | | | | | | | | on |
| | | Setup | | | | | | | |
| | | Arpeggiator | | | | | | | |
| | | Functions | | | | | | | |
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Setup Template

Provided on the following two pages is a template to copy and use for recording the settings of the zones in the Setups you create.

| | | | | | | | | | |
|--------------------------------|--|----------------------|------------------|----------------|-----------------|----------------|------------------|------------------|-----------------|
| Setup Name: | | | | | | | | | |
| Zone 1 | | Arp. enable | | | | | | | |
| MIDI Transmit | | Cont. Ctls | ctl # | scale | offset | curve | entry val | exit val | |
| MIDI channel | | wheel1 up | | | | | | | |
| destination | | wheel1 down | | | | | | | |
| bndrng | | wheel 2 | | | | | | | |
| Program | | mpressure | | | | | | | |
| bank | | slider A | | | | | | | |
| program | | slider B | | | | | | | |
| entry transmit | | slider C | | | | | | | |
| bank mode | | slider D | | | | | | | |
| prog # display | | pedal 1 | | | | | | | |
| prog name display | | pedal 2 | | | | | | | |
| Key Range/ Note Map | | pedal 3 | | | | | | | |
| Transpose | | pedal 4 | | | | | | | |
| Velocity | | Switch Ctls | type | on ctl | on val | off ctl | off val | entry val | exit val |
| scale | | button E | | | | | | | |
| offset | | button F | | | | | | | |
| curve | | button G | | | | | | | |
| min-max | | sw pedal 1 | | | | | | | |
| | | sw pedal 2 | | | | | | | |
| Zone 2 | | Arp. enable | | | | | | | |
| MIDI Transmit | | Cont. Ctls | ctl # | scale | offset | curve | entry val | exit val | |
| MIDI channel | | wheel1 up | | | | | | | |
| destination | | wheel1 down | | | | | | | |
| bndrng | | wheel 2 | | | | | | | |
| Program | | mpressure | | | | | | | |
| bank | | slider A | | | | | | | |
| program | | slider B | | | | | | | |
| entry transmit | | slider C | | | | | | | |
| bank mode | | slider D | | | | | | | |
| prog # display | | pedal 1 | | | | | | | |
| prog name display | | pedal 2 | | | | | | | |
| Key Range/ Note Map | | pedal 3 | | | | | | | |
| Transpose | | pedal 4 | | | | | | | |
| Velocity | | Switch Ctls | type | on ctl | on val | off ctl | off val | entry val | exit val |
| scale | | button E | | | | | | | |
| offset | | button F | | | | | | | |
| curve | | button G | | | | | | | |
| min-max | | sw pedal 1 | | | | | | | |
| | | sw pedal 2 | | | | | | | |
| | | Setup Effects | Algorithm | rev wet | rev time | eff wet | eff dly | | |
| | | Effects 1 | | | | | | | |
| | | Effects 2 | | | | | | | |

| Setup Name: | | | | | | | | | |
|--------------------------------|--|--------------------|----------------|----------------|-----------------|-----------------|----------------|------------------|-----------------|
| Zone 3 | | Arp. enable | | | | | | | |
| MIDI Transmit | | Cont. Ctls | | ctl # | scale | offset | curve | entry val | exit val |
| MIDI channel | | wheel1 up | | | | | | | |
| destination | | wheel1 down | | | | | | | |
| bndrng | | wheel 2 | | | | | | | |
| Program | | mpressure | | | | | | | |
| bank | | slider A | | | | | | | |
| program | | slider B | | | | | | | |
| entry transmit | | slider C | | | | | | | |
| bank mode | | slider D | | | | | | | |
| prog # display | | pedal 1 | | | | | | | |
| prog name display | | pedal 2 | | | | | | | |
| Key Range/ Note Map | | pedal 3 | | | | | | | |
| Transpose | | pedal 4 | | | | | | | |
| Velocity | | Switch Ctls | type | on ctl | on val | off ctl | off val | entry val | exit val |
| scale | | button E | | | | | | | |
| offset | | button F | | | | | | | |
| curve | | button G | | | | | | | |
| min-max | | sw pedal 1 | | | | | | | |
| | | sw pedal 2 | | | | | | | |
| Zone 4 | | Arp. enable | | | | | | | |
| MIDI Transmit | | Cont. Ctls | | ctl # | scale | offset | curve | entry val | exit val |
| MIDI channel | | wheel1 up | | | | | | | |
| destination | | wheel1 down | | | | | | | |
| bndrng | | wheel 2 | | | | | | | |
| Program | | mpressure | | | | | | | |
| bank | | slider A | | | | | | | |
| program | | slider B | | | | | | | |
| entry transmit | | slider C | | | | | | | |
| bank mode | | slider D | | | | | | | |
| prog # display | | pedal 1 | | | | | | | |
| prog name display | | pedal 2 | | | | | | | |
| Key Range/ Note Map | | pedal 3 | | | | | | | |
| Transpose | | pedal 4 | | | | | | | |
| Velocity | | Switch Ctls | type | on ctl | on val | off ctl | off val | entry val | exit val |
| scale | | button E | | | | | | | |
| offset | | button F | | | | | | | |
| curve | | button G | | | | | | | |
| min-max | | sw pedal 1 | | | | | | | |
| | | sw pedal 2 | | | | | | | |
| | | Setup | act | key rng | latch md | play ord | beats | tempo | duratn |
| | | Arpeggiator | | | | | | | |
| | | Functions | velmode | fix vel | notesht | shftlimt | limtopt | gliss | |
| | | | | | | | | | |