PCM 90 Quick Reference Guide

Halls: Orchestral
P0 0.0   Deep Blue

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Basic Operation

The PCM 90 has 5 basic modes of operation, selected by pressing: **Program Banks**, **Register Banks**, **Edit**, **Control** or **Tempo**
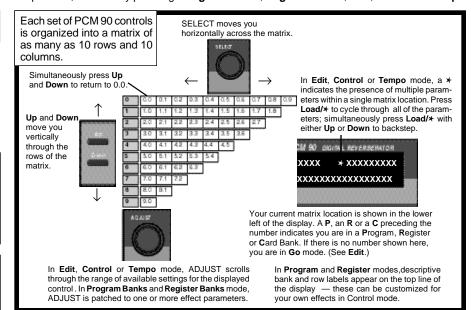
Program Banks and Register Banks

Press **Program Banks** to cycle through 5 banks of 50 presets. Press **Register Banks** to access 2 internal banks of 50 registers (or PCMCIA card banks) where you can store your versions of the factory presets.

Turn SELECT to view all of the effects. A ✳ in front of an effect name indicates that the effect is *not* loaded. Hold down either **Banks** button to see the name of the currently running effect.

Press **Load/✳** to load any displayed effect. ADJUST acts as a soft knob for adjustment of one or more patched effect parameters.

Simultaneously press and release both **Banks** buttons to view the previously loaded effect. Turn SELECT to view as many as 10 effects back.

Each set of PCM 90 controls is organized into a matrix of as many as 10 rows and 10 columns.

Simultaneously press **Up** and **Down** to return to 0.0.

Up and **Down** move you vertically through the rows of the matrix.

SELECT moves you horizontally across the matrix.

←   →

In **Edit**, **Control** or **Tempo** mode, a ✳ indicates the presence of multiple parameters within a single matrix location. Press **Load/✳** to cycle through all of the parameters; simultaneously press **Load/✳** with either **Up** or **Down** to backstep.

0	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
1	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	
2	2.0	2.1	2.2	2.3	2.4	2.5	2.6			
3	3.0	3.1	3.2	3.3	3.4	3.5	3.6			
4	4.0	4.1	4.2	4.3	4.4	4.5				
5	5.0	5.1	5.2	5.3	5.4					
6	6.0	6.1	6.2	6.3						
7	7.0	7.1	7.2							
8	8.0	8.1								
9	9.0									

PCM 90 DIGITAL REVERBERATOR

XXXX   ✳ XXXXXXXX
XXXXXXXXXXXXXXXXXX

Your current matrix location is shown in the lower left of the display. A **P**, an **R** or a **C** preceding the number indicates you are in a **P**rogram, **R**egister or **C**ard Bank. If there is no number shown here, you are in **Go** mode. (See **Edit**.)

In **Edit**, **Control** or **Tempo** mode, ADJUST scrolls through the range of available settings for the displayed control. In **Program Banks** and **Register Banks** mode, ADJUST is patched to one or more effect parameters.

In **Program** and **Register** modes, descriptive bank and row labels appear on the top line of the display — these can be customized for your own effects in Control mode.

Edit

Press **Edit** to access all available parameters for the currently running effect. Turn ADJUST to alter the value of any displayed parameter.

Control

Press **Control** to access system parameters, MIDI controls, and global control of parameters such as Mix, Tempo, and Bypass type.

Tempo

Press **Tempo** to set tempo-related values that affect the delay time and LFO rate parameters of the currently running effect.

Effect Sorting

The PCM 90 lets you perform KeyWord sorting of your effects. (The default KeyWord **A to Z** displays all of the effects in the box in alphabetical order.)

As many as 4 KeyWords can be assigned in **Edit** mode to each effect. (We've already assigned at least one to every preset.)

Press either **Banks** button one push beyond the last bank to view the list of sorted effects. Turn SELECT to scroll through the list.

To select a different KeyWord for sorting, go to **Control 1.8.** and use ADJUST to select any KeyWord from the following list.

PCM 90 KeyWords

A to Z	**Gated**	**Room**
Acoustic	**Guitar**	**Short**
Ambience	**Indoor**	**Slap FX**
Ballad	**Instrument**	**Small**
Bright	**Keyboard**	**Spatial**
Broadcast	**Large**	**Special FX**
Cascade	**Live PA**	**Splits**
Chamber	**Long**	**Stereo**
Classical	**Mastering**	**Surround**
Cncrt Hall	**Medium**	**Tempo**
Custom	**MIDI**	**Unnatural**
Dark	**Mono**	**Vocal**
Dialog	**Natural**	**User 1**
Drums/Perc	**Orchestral**	**User 2**
Dynamic	**Outdoor**	**User 3**
Echo	**Plate**	**User 4**
Film-ADR	**RandomHall**	

Tempo

Any PCM 90 delay parameter and any time-based modulator can be individually assigned an absolute time or tempo value.

You can set delay times in milliseconds, or in a ratio of echoes/beats linked to tempo. When you change tempo, the delay times will change to maintain the same rhythm at the new tempo.

To set PCM 90 tempo rate, press **Tempo**. Use SELECT and **Up** and **Down** to locate matrix position **0.0**. Turn ADJUST to select any **Tempo Rate** from 40-400 BPM.

Or, press **Tap** twice in rhythm to establish the tempo rate you want. **Tap** is always active, allowing you to change tempo on the fly.

Note: You can set and display delay values in units of time, or with tempo values. Whenever a delay value is displayed in **Edit** mode, press **Up** and **Tempo** simultaneously to toggle these two options.

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Audition the Programs

Press **Program Banks** to cycle through 5 banks of 50 presets.
Turn SELECT to view all of the presets in the selected bank.
Press **Load/✶** to load any displayed effect.

P0 Halls

Matrix Location	Preset Type
0.0-0.9	Orchestral
1.0-1.9	Vocal
2.0-2.9	Live Sound
3.0-3.9	Instrument
4.0-4.9	Custom

P1 Rooms

Matrix Location	Preset Type
0.0-0.9	Instrument
1.0-1.9	Vocal
2.0-2.9	Live Sound
3.0-3.9	Drums/Perc
4.0-4.9	Custom

P2 Plates

Matrix Location	Preset Type
0.0-0.9	Instrument
1.0-1.9	Vocal
2.0-2.9	Live Sound
3.0-3.9	Drums/Perc
4.0-4.9	Custom

P3 Post

Matrix Location	Preset Type
0.0-0.9	Indoor Small
1.0-1.9	Indoor Large
2.0-2.9	Outdoor
3.0-3.9	Spatial
4.0-4.9	Custom

P4 Splits

Matrix Location	Preset Type
0.0-0.9	Mono
1.0-1.9	Stereo
2.0-2.9	Live Sound
3.0-3.9	Instrument
4.0-4.9	Custom

Each preset has one or more parameters patched to the ADJUST knob.

Turn ADJUST to display the name and the current value of the patch.

Continue turning ADJUST to change the value of the patch along its entire range. The screen will return to its normal display when you stop turning ADJUST.

In addition to ADJUST, as many as 4 *Custom Controls* can be created for any effect. We've created some interesting ones for the presets in a row called "Custom" at the end of each bank (4.0-4.9) — Look for these in the first Edit row.

Compare

When you turn ADJUST, or perform any other parameter edits, the front panel **Compare** light will go on to indicate that the program has been modified since it was last stored. Press **Compare** to hear the unedited version. Press again to return to your edited program.

Edit

The PCM 90 offers two levels of editing control: **Go** mode and **Pro** mode.

Go mode gives you access to a specific set of as many as 10 parameters for each of the 250 presets. We have designed each set of parameters to allow you to make changes to the effect *without* losing the character of the sound.

Pro mode gives you access to the full effect edit matrix whenever you press **Edit**. The edit matrix contains all effect parameters, Patching and Modulation controls, and tools for creating Custom Controls and assigning KeyWords to effects.

The PCM 90 is shipped in **Go** mode. To change the Edit mode, press **Control**, use SELECT and **Up** and **Down** to locate matrix position **1.0**. Turn ADJUST to select **Go** or **Pro**.

In **Go** mode, press **Edit** to access the most useful preset parameters for the currently running effect.

Turn SELECT to view the available parameters.

Turn ADJUST to change the value of any displayed parameter.

Bypass

Press **Bypass** to mute the input signal. A Bypass Mode parameter at **Control** mode **1.3** allows you to select input muting, output muting, input and output muting, or bypass as alternatives. You can also assign the bypass function to an external controller.

Store

Press **Store**. The current program name will appear with a flashing cursor over the first letter of the name.

Turn ADJUST to select a new character. Press **Up** or **Down** to select a new *type* of character (upper or lower case, numeric, symbolic, or blank). Turn SELECT to move the cursor to a new character.

Press **Load/✶** to move the ✶ to the Register ID number. Use ADJUST or SELECT to choose the register where you want the effect saved.

When the display shows the register number you want, press **Store**. Press **Store** in response to the "Are you sure?" message to save your new effect to the displayed register location.

Info

The PCM 90 offers an extensive set of informative display messages which can be activated from the front panel. If you want to know more about the function of a particular button, *press and hold* the button down. While you are holding down the button, an explanatory message will be displayed.

In addition to these easy plug and play techniques, the PCM 90 provides extensive system control via front panel patching or MIDI. For complete details on these and other features, read the PCM 90 User Guide.

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