PMC10

Version 2.0 Addendum

A Harman International Company

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Factory Examples And Their Functions

The factory examples for the Version 2.0 PMC10 are arranged in 6 Banks.

- Bank 1 (SEND PRG CHG) is set up to send Program Change numbers 1 - 9 on MIDI Channel 1.
- Bank 2 is a sequenced Bank (note that a dot appears next to the Bank number if the Bank is in sequence mode). This Bank also sends Program Change numbers 1 - 9, but its purpose is to demonstrate that your Patches can appear in any order within the sequence.
- Bank 3 demonstrates how to send chords to a synthesizer using Note On / Note Off messages. Included in this Bank is an ALL NOTES OFF Patch which simply uses MIDI Mode messages to turn off all notes on all channels (If you're wondering why pedal 5E displays the Bank name when you press it, it's because there is not a Patch assigned to that pedal for this Bank.).
- Bank 4 is another sequenced Bank, only this time, you are sending a sequence of chords instead of Program Change messages.
- Bank 5 contains miscellaneous application ideas for the PMC10. The top row of pedals (1A - 5E) is basically a MIDI panic station. Pedals 1A - 4D reset individual MIDI event types, while pedal 5E resets *all* MIDI event types. Pedals 6E and 7G send an on or off message out the External Device Control Switch jack. Pedals 8H and 9I are to be used in conjunction with an expression pedal to send Pitch Bend Up or Pitch Bend Down messages to a synthesizer.
- Bank 6 is set up to behave like DigiTech's own guitar effects processor foot controllers. Following is a breakdown of pedal functions:
- Pedal 1A turns the compressor section on or off.
- Pedal 2B turns the distortion section on or off.
- Pedal 3C turns the modulation section on or off.
- Pedal 4D turns the delay section on or off.
- Pedal 5E turns the reverb section on or off.

The bottom four pedals (6F - 9I) are configured to send Program Changes 1-4 on MIDI channel 1.

Erase Patch

Allows you to erase any Patch or MIDI String currently in memory. The Patch to be erased is the one you chose when you entered the Edit Patch SubMenu.

- Select ERASE PATCH in the Edit Patch SubMenu. Press <ENTER>.
- The display reads ERASE FULL PATCH. Using the <NEXT>/<PREV>ious keys, select the item you want to erase: FULL PATCH, STRING A, or STRING B. Press <ENTER>.
- The display reads PRESS ENTER TO ERASE. Press <ENTER> to erase the Patch, or any other key to abort.

Pdl Action / Switch

There are four PDL ACTION settings available with Version 2.0: NORMAL, ENHANCED, MOMENTARY, and TOGGLE. Default setting for this parameter is NORMAL.

The characteristics of NORMAL mode are as follows:

- Pressing a pedal set to NORMAL causes the pedal LED to light and MIDI String A to be sent. If you press the same pedal again, the LED remains lit and MIDI String B is sent, followed by String A of the same Patch.
- If another pedal is pressed, String B of the current Patch and String A of the new Patch are sent together.

The characteristics of ENHANCED mode are as follows:

- Pressing a pedal set to ENHANCED causes the pedal LED to light and MIDI String A to be sent.
- If you press the same pedal again, the LED goes out and MIDI String B is sent.
- If an ENHANCED pedal LED is lit and another ENHANCED or NORMAL pedal is pressed, MIDI String B of the lit pedal and MIDI String A of the new pedal will be sent together, lighting the new pedal's LED and turning off the other.
- Every time the new pedal is pressed after the initial switch, it will act as a toggle between the last ENHANCED or NORMAL pedal that was pressed and the new pedal. In other words, the PMC10 will switch alternately between the two every time the new pedal is pressed.

The important difference between NORMAL and ENHANCED modes is that a pedal set to ENHANCED can be used to switch back and forth between the currently selected Patch and the previous Patch, whereas NORMAL mode does not remember the previously selected Patch.

The characteristics of MOMENTARY mode are as follows:

- When a pedal set to MOMENTARY is pressed, MIDI String A is sent; when it is released, MIDI String B is sent. This is useful for things like triggering synthesizer chords. Simply set the pedal to MOMENTARY, assign a series of Note On messages (one for each note in the chord) to MIDI String A, and the same series using Note Off messages to MIDI String B. The chord will play as long as you hold down the pedal, and stop when you release the pedal.

The characteristics of TOGGLE mode are as follows:

- Pressing a pedal set to TOGGLE causes the pedal LED to light and MIDI String A to be sent. Pressing the pedal again causes MIDI String B to be sent and the LED goes out.
- If a pedal LED is lit and another pedal is pressed, only MIDI String A of the new pedal is sent. Both LEDs are lit.

HEX	ASCII	PMC10
0x20	space	space
0x21	!	'D
0x22	"	'L
0x23	#	'N
0x24	$	'S
0x25	%	'T
0x26	&	'V
0x27	'	'
0x28	(	(
0x29	)	)
0x2a	*	*
0x2b	+	+
0x2c		Major chord
0x2d	-	-
0x2e		Flat (b)
0x2f	/	/
0x30	0	0
0x31	1	1
0x32	2	2
0x33	3	3
0x34	4	4
0x35	5	5
0x36	6	6
0x37	7	7
0x38	8	8
0x39	9	9
0x41	A	A

HEX	ASCII	PMC10
0x42	B	B
0x43	C	C
0x44	D	D
0x45	E	E
0x46	F	F
0x47	G	G
0x48	H	H
0x49	I	I
0x4a	J	J
0x4b	K	K
0x4c	L	L
0x4d	M	M
0x4e	N	N
0x4f	O	O
0x50	P	P
0x51	Q	Q
0x52	R	R
0x53	S	S
0x54	T	T
0x55	U	U
0x56	V	V
0x57	W	W
0x58	X	X
0x59	Y	Y
0x5a	Z	Z
0x5c	\	\

Shown above is the 2.0 version of the PMC10 character set.

Pitch Bend / Channel Pressure

The Version 2.0 PMC10 is also capable of sending Channel Pressure and Pitch Bend messages via Expression Pedals. When asked to select the controller type, enter 0 and scroll backwards twice using the <+>/<-> keys. The display reads CHANNEL PRESSURE or PITCH BEND.

For Channel Pressure:

- Select CHANNEL PRESSURE and press <NEXT>.
- The display reads MIN VALUE 0. Using the <+>/<-> keys, select the minimum Channel Pressure value that will be sent by the PMC10. Press <NEXT>.
- The display reads MAX VALUE 127. Using the <+>/<-> keys, select the maximum Channel Pressure value that will be sent by the PMC10. Press <NEXT>.
- The display reads PEDAL POLARITY +. This parameter allows you to reverse the effect of a typical volume controller, i.e. full on position becomes the minimum value and the full off position becomes the maximum value. Select polarity and press <NEXT>.

For Pitch Bend:

The procedure for PITCH BEND setup is the same as for CHANNEL PRESSURE, except that when PITCH BEND is selected, the MINIMUM VALUE screen is omitted, and a four digit number appears beside the MAX VALUE number. This four digit number is the decimal value of the Pitch Bend amount, while the number to its left represents the MIDI value of the amount. Remember that these amounts are relative to the 0 Pitch Bend point of the instrument you are controlling. The direction of the bend is determined by the setting of the PEDAL POLARITY parameter. When this is set to <+>, the pitch bends up. When set to<->, the pitch bends down.