

## KnowledgeBase | PC3LE6 | Setup Mode

## Transmitting MIDI Bank and Program Changes to Slaves

How can I program a setup to remotely select the sounds I need from my external MIDI devices (modules, keyboards, VI's, etc).

## Answer:

Note: All references to the "PC3" apply equally to both the PC3, PC3K, PC3LE and X-Pro models. Some screens may differ slightly on your model

The key with working with Bank/Program changes is knowing what messages and order of messages the receiving device (slave) needs to be sent in order to recall any given sound selection. Every device/model differs a bit so be sure to consult the receiving device's manual for details on what Bank/Program change combination it specifically requires.

MIDI Message	Value Range
Bank MSB (cc0)	0-127
Bank LSB (cc32)	0-127
Program Change	0-127

In the PC3, these values are entered in your Setup, on the CH/PRG page of the zone you wish to send the change from. Here are the basic steps

- 1. Select the Setup 128 (Default Setup) OR select one you are already building
- 2. Press EDIT; you will be see the CH/PRG page:

```
SetuPMode:CH/PROG
Program : 1 Standard Grand
Destination: USS/HOGA/HOGAUQ
                                                            #Zone:1/1
Status : Active Arpessiator

more CHZPRG KEYVEL PANVOL BEND
```

3. If needed, use the Chan/Layer up/down buttons (left of the screen) to select the zone you will be using to control your slave device.

SetuPMode:C		#Zone:2/3
Program :	1 Standard Grand	
	USBNIDI#NIDI#LOCHL	
Channel : MidiBank :		innel:None ∍ :Ctl0/32
MidiProg		iChg:On
	Active Arpeggia	
more CH/PR	G KEYVEL IPANVOL IB	END more

4. Need be, set the Destination: MIDI (or USBMIDI), Bank Mode: Ctl 0/32 (default), EntryProgChg: On (default) and set the MIDI Channel to be the channel you wish to communicate to your slave device on

SetuPMode:CH/PROG	‡Zone:2/3
Destination: MIDI	Out: Auto InPutChannel: None
Channel 2 MidiBank 0 MidiProg 1	BankMode : Ctl 0/32 EntryPrgChg : On
Status : Active more CHZPRG KEYVEL	Arpeggiator : On 122NUOL BEND   more

5. Input the MIDI Bank message

The PC3 MIDIBank field is in decimal form so we first need to convert the two-byte (MSB/LSB) Bank message into a single decimal figure for entry. Use the following formula to convert things: (grab a calculator)

```
(MSBx128) + LSB = MIDIBank value
```

For example: let's say a particular sound in your slave device has a Bank MSB=63, LSB=8, and a program change=50...plug the Bank MSB/LSB numbers into the above formula as follows:

(63 x 128) + 8 = 8072

The resultant Bank value in decimal form is actually Bank 8072.

6. Enter the MIDIBank value. Following the above example, type in 8072 and ENTER on the keypad.

SetuPMode:0		‡Zor	ie:2/3
Program :	1 Standar	d Grand	
Destination:	USBMIDI+r		: Auto
Channel	6000	InPutChannel	None Ctl Ø/32
MidiProg	201Z	BankMode EntryPrgChg	
	Active		On .
more CHZP	PG KEVIJEL	PANIOL BENT	more

7. Enter the MIDIProg value. Following the above example, type in 50 and ENTER on the keypad.

SetuPMode:0			ie:2/3
Program Destination	1 Standard USBMIDI+M	d Grand IDI+LOCAL Out	: Auto
Channel MidiBank	2 8072	InPutChannel BankMode	
MidiPro9 :	50 Heldive	EntryPrgChg	
Status More CH/P	RG KEYUEL	Arpeggiator PANVOL BEND	more

8. Press EXIT and Save the setup as usual

From now on when you select this setup your slave device will call up the specified sound on the channel used by the zone in question. Repeat

Need more info? Check out the following links: