# MIDI Tab

*Note: The MIDI Tab is only available on the Mastermind LT/PBC editor. On the Mastermind GT, the MIDI settings are on the Globals Tab.*

The MIDI tab is where you can edit various MIDI parameters for the Mastermind LT and PBC.

# MIDI Settings

**MIDI Receive Channel** - selects which MIDI channel the Mastermind responds to. Incoming Program Changes and Bank messages on this channel will cause the Mastermind to switch to the indicated preset. This setting also enables incoming CC (Continuous Controller) messages, which are set in the right side of this tab. Can also be set to **None** which makes it ignore all incoming Program Changes and Continuous Controller messages.

This setting is typically used when controlling the Mastermind from a computer or other MIDI controller.

> You should not set MIDI Receive Channel to be the same channel as one of your other MIDI devices. This includes devices with bidirectional MIDI communication such as the Axe-Fx and Kemper Profiler. When using these devices, you don't need MIDI Receive Channel to be set to anything other than **None**.

**MIDI Clock** - selects how the Mastermind PBC handles MIDI clock messages. Possible values are:

- **None** - does not transmit or receive MIDI clock
- **Transmit** - transmits a MIDI clock signal. The tempo can be set using tap tempo button, or can be programmed in any song or preset.
- **Receive** - receives a MIDI clock signal. It will also send the incoming clock signal out the MIDI output.
- **Auto** - If an incoming MIDI clock signal is detected at the MIDI input or USB port, act as if **Receive** was selected. If no incoming MIDI signal is detected, act as if **Transmit** was selected.

**Clock Pulse Limit** - If set to 0 (the default), MIDI clock will be sent normally - as a continuous stream of MIDI messages. If set to a number higher than 0, the Mastermind will send that many MIDI clock messages every time the tempo changes, then stop sending. This is similar to tap tempo, but is faster.

**Bidirectional MIDI** - when turned on, makes the MIDI Out and MIDI In ports bidirectional. Pins 1 and 3 are used for the second communication channel. This is used for Remote Mode or to communicate with bidirectional MIDI devices like the Axe-Fx.

**Remote Mode** - when enabled, allows you to link two or more Masterminds together and have them all operate in unison. This makes it possible to use one Mastermind as a remote controller for another. When using this mode, the MIDI Out of each device connects to the MIDI In of the next MIDI device. The last device's MIDI Out is used to connect to the rest of your MIDI devices.

> **Bidirectional MIDI** should be turned on when using Remote Mode, and all Masterminds need to have the same exact settings on them in order for Remote Mode to work correctly.

**Expander** - when checked, allows you to link two Masterminds together and use them as one unit. This is different from remote mode in that you can use the audio loops in each unit independently and you can have different button configurations on both units. **Remote Mode** needs to be turned on for this parameter to be visible. **Bidirectional MIDI** needs to be on when using expander mode.

**MIDI bank selects song** - This setting changes how the Mastermind responds to MIDI bank messages. Refer to the External MIDI Control section for more details.

**Use Song Index** - This setting, along with the above setting, controls how the Mastermind responds to MIDI bank messages. Refer to the External MIDI Control section for more details.

**Merge (In / Out / USB)** - when one or more of these checkboxes are checked, the Mastermind takes any MIDI messages received at that port and forwards them out the MIDI Out port.

**MIDI Forward** - when enabled, the Mastermind takes any MIDI messages received at the USB Device port and forwards them out the MIDI Out port. And, any MIDI messages coming in to the MIDI In port are forwarded out the USB device port. This allows you to use the Mastermind as a MIDI interface for a computer.

# Incoming CC Messages

This section allows you to set which incoming CC messages control each audio function of the Mastermind. Each loop, buffer, output, signal and function switch is listed here and has a space where you can select which CC number controls that function. **MIDI Receive Channel** needs to be set to something other than **None** for the Mastermind to respond to incoming CC messages.

> All of the possible CC messages for the Mastermind series are displayed. When configuring a Mastermind LT, all of the CCs relating to audio features such as loops, buffers and outputs will be visible and able to be edited, but these CCs will have no effect.

Control using incoming CC messages is explained in more detail in the External MIDI Control section.

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