



**VERSION 3.5**

**MIDI SETUP GUIDE FOR  
TONEPORT UX2, UX8 & KB37**

Mac<sup>®</sup> OS X, Windows<sup>®</sup> XP<sup>®</sup> & Windows<sup>®</sup> Vista<sup>®</sup>

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# TONEPORT FOOTSWITCH & EXPRESSION PEDALS

TonePort UX2, UX8 and KB37 devices all include special jacks for connecting footswitch pedals which offer remote toggle switching of various functions. The two **Footswitch** jacks on the rear panel of these TonePorts provide remote control of GearBox operations or functions within the included Ableton Live Lite™ 5 and other audio software. Additionally, TonePort UX8 and KB37 each have an **Expression** pedal jack. You can connect a pedal such as the [Line 6 EX-1 Expression Pedal](#) here and assign it to remotely control one of the many GearBox parameters in real-time, such as wah, delay mix, chorus rate, etc. Or, you can configure the expression pedal to operate a parameter in your recording software!

Tip – You will want to first connect your footswitches & pedals to these TonePort jacks before connecting the USB cable to your computer. If you already have a USB cable connecting TonePort to your computer, exit any software that is using TonePort, mute your speakers, and then disconnect your USB cable.

## TonePort UX2

Connect up to two footswitch pedals into these **Footswitch 1 & 2** jacks

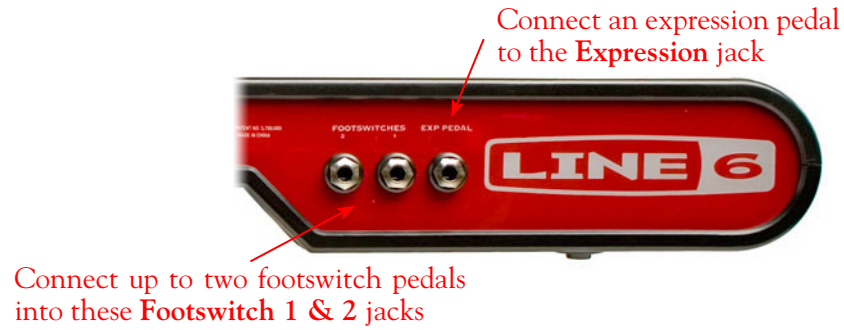


## TonePort UX8



Connect up to two footswitch pedals into these **Footswitch 1 & 2** jacks

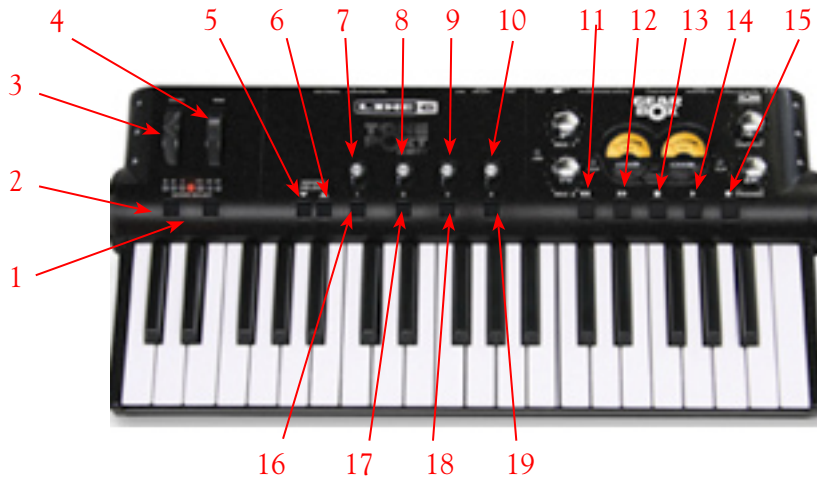
Connect an expression pedal to the **Expression** jack

**TonePort KB37**

For information on how to map the footswitches and expression pedal to control GearBox or other software parameters, please see the [MIDI Control Configuration](#) chapter.

# TONEPORT KB37 CONTROLLER LAYOUT

In addition to the Footswitch and Expression jacks on the back, TonePort KB37 offers a whole set of knobs, switches and even transport buttons that can be used to control GearBox or parameters in your other software. These knobs and buttons are referred to as **MIDI Controllers** since they send MIDI events out the unit's USB MIDI Out port, allowing remote control of parameters in real-time. These KB37 knobs and buttons are named as follows:



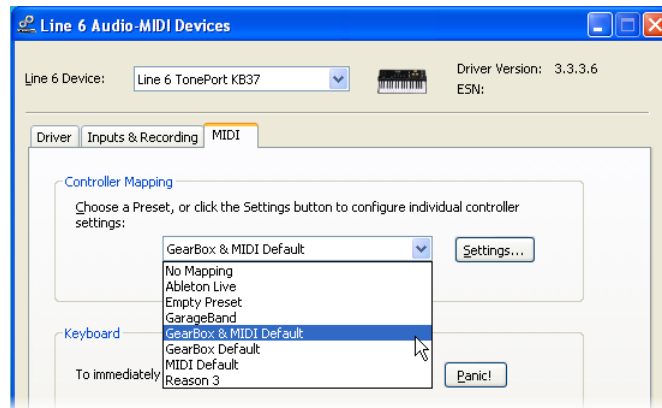
1	Octave Up	11	Transport - Rewind
2	Octave Down	12	Transport - Forward
3	Pitch Bend Wheel	13	Transport - Stop
4	Modulation Wheel	14	Transport - Play
5	Sound Select (Previous)	15	Transport - Record
6	Sound Select (Next)	16	Button 1
7	Knob 1	17	Button 2
8	Knob 2	18	Button 3
9	Knob 3	19	Button 4
10	Knob 4		

For information on how to map these MIDI Controllers to GearBox or other software parameters, please see the following [MIDI Control Configuration](#) chapter.

# MIDI CONTROL CONFIGURATION

## Default MIDI Control Settings

TonePort UX2, UX8 & KB37 ship with a default set of **MIDI Control Messages** assigned to their controllers as shown in the handy table below. Note that by default, TonePort sends out two different sets of messages to control Gearbox and other MIDI software. You can optionally select to send out only the GearBox data, or only the MIDI CC Control data by choosing the different **Controller Mapping** presets in the **Line 6 Audio-MIDI Devices** dialog:



As you can also see in the **Controller Mapping** menu, there are several other presets for MIDI software applications as well - see the following sections for details regarding these 3rd party applications.

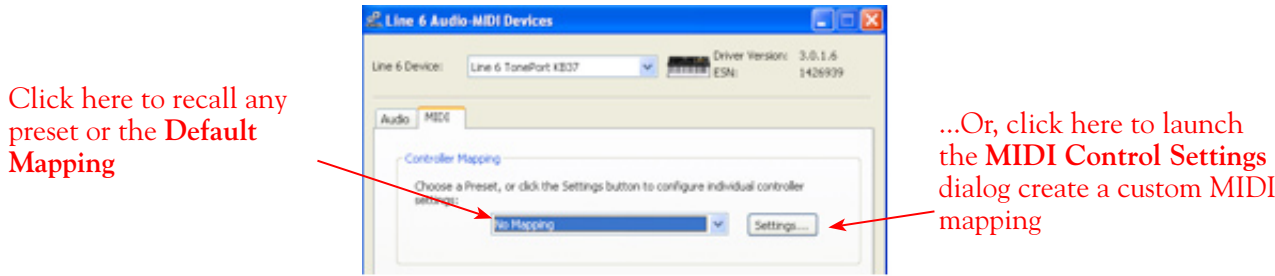
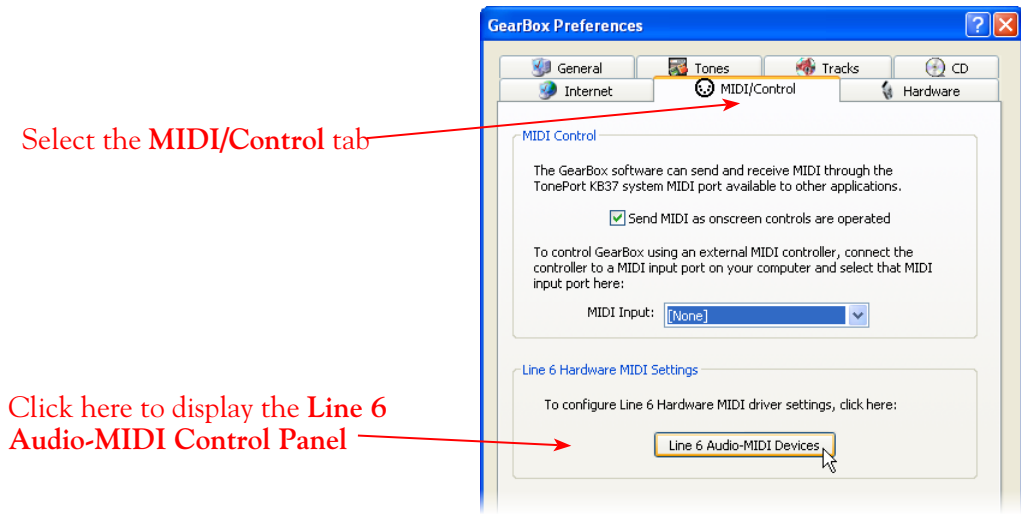
## Default MIDI Control Assignments

TonePort Model	Controller Name	GearBox Parameter	MIDI Control Message
KB37	Modulation wheel	Tweak	
KB37	Sound Select (Previous)	Next Tone Preset	Patch increment -1
KB37	Sound Select (Next)	Previous Tone Preset	Patch increment +1
KB37	Knob 1	Amp – Drive	CC 73 (Attack Time)
KB37	Knob 2	Amp – Bass	CC 75 (Decay Time)
KB37	Knob 3	Amp – Middle	CC 72 (Release Time)
KB37	Knob 4	Amp – Treble	CC 91 (Effects 1 Depth)
KB37	Button 1	Stomp – toggle on/off	CC 65 (Portamento)
KB37	Button 2	Mod – toggle on/off	CC 127 (Poly On)
KB37	Button 3	Delay – toggle on/off	CC 126 (Mono On)
KB37	Button 4	Reverb – toggle on/off	CC 123 (All Notes Off)

TonePort Model	Controller Name	GearBox Parameter	MIDI Control Message
KB37	Stop	Stop	MMC Pause
KB37	Play	Play	MMC Play/Stop
KB37	Record	Loop	MMC Record Punch
KB37	Rewind	Rewind	MMC Rewind
KB37	Forward	Forward	MMC Fast Forward
KB37, UX8	Expression Pedal	Wah	CC 11 (Expression)
KB37, UX8, UX2	Footswitch 1	Stomp	CC 64 (Sustain)
KB37, UX8, UX2	Footswitch 2	Tuner	MMC Record Punch

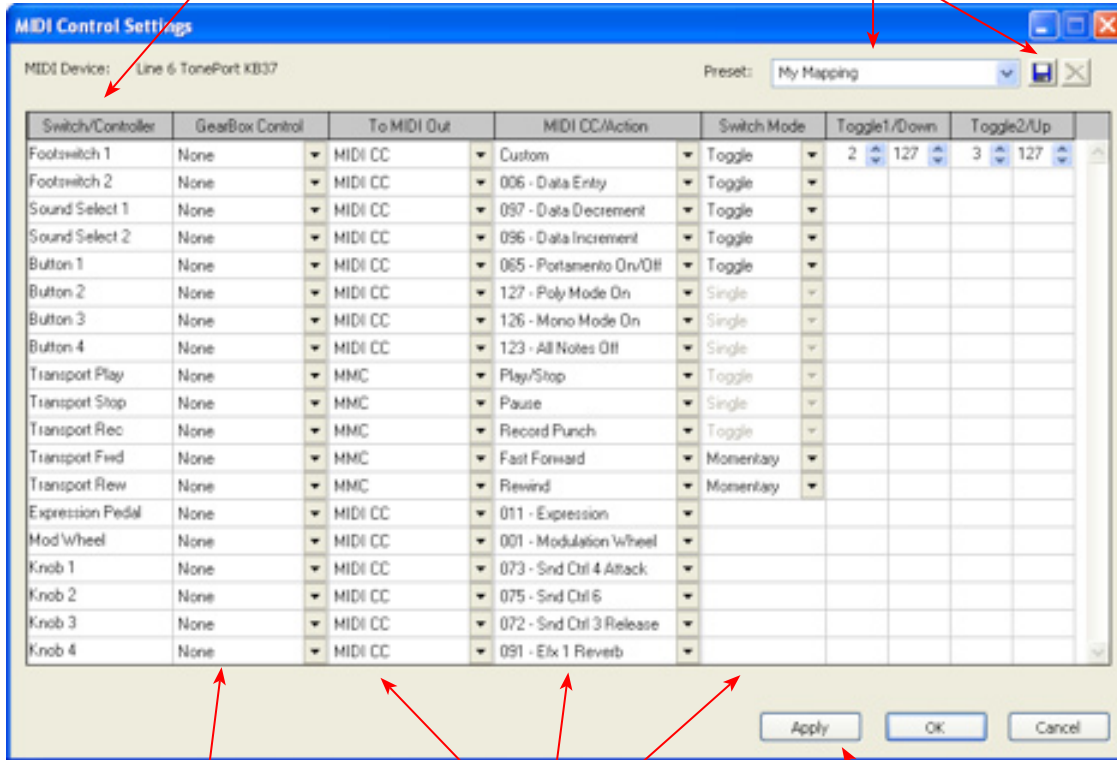
### Re-mapping Control Messages

To re-map the functions of any of these TonePort controllers, connect your TonePort UX2/UX8/KB37 to your Windows® or Mac® computer's USB port, launch the GearBox applications and go to **Edit > Preferences** (Windows) or **GearBox > Preferences** (Mac) and follow these steps:



The **Switch/Controller** column populates with all re-assignable controllers for your device (TonePort KB37 shown here)

Name and save your custom mapping as a preset



Choose which **GearBox Control** function (if any) to assign to the respective Controller

Choose the type of **Control**, which **CC/Action** it will perform, and the **Switch Mode** for each respective controller

Click **Apply**, then **OK** when done

If you are using a UX8, the MIDI Control Settings dialog will list only the Footswitch 1, Footswitch 2 and Expression Pedal controllers. If using a UX2, the dialog will list only Footswitch 1 and Footswitch 2 controllers.

### MIDI Controller Message Types

TonePort UX2/UX8/KB37 allow you to configure controllers to send a variety of different MIDI message formats (MIDI CC, MMC, Mackie/Logic Control), to remotely control functions within other audio software. These options are accessed in the **To MIDI Out** column of the MIDI Control Settings dialog (see above). Below are the types of MIDI messages you can send from TonePort’s controllers. Check the documentation for your audio software for its MIDI remote control capabilities and instructions for assigning functions.

- **MIDI CC (On/Off):** Choosing this function allows selection of any CC from 0-127, listed by number and the standard command association (for example, 007 Volume).
- **MIDI CC (Custom):** For Footswitches and Buttons, this function allows a pair of CC’s and



values to be assigned so that the controller can trigger two different functions for each successive push. (See the Footswitch 1 setup instructions in the following [Ableton Live](#) chapter for an example).

- **MIDI Machine Control:** This function offers a set of MMC commands listed by name. The command is sent on push down of the pedal/button, and no command is sent on pedal up. When the Fast Forward or Rewind commands are selected, the **Switch Mode** menu becomes available and **Momentary** is a selectable option. This offers the ability to either toggle these functions on/off, or to have them perform when the pedal is held down only.
- **Mackie/Logic Control:** This function offers a limited set of commands that can be sent conforming to the Mackie Control or Logic Control format. If the audio software supports these popular controller devices, then it should also support these commands from TonePort\*.

\* Note – The Mackie Control protocol uses MIDI note events to activate specific functions. When using the KB37 as a Mackie Control input device, MIDI note messages may trigger Mackie Control-related functions within a given host application. In Ableton Live™ for example, D5 (MIDI note 74) toggles between the Arrangement and Session views.

## Assigning GearBox Functions to TonePort UX2/UX8/KB37 Controllers

In addition to controlling Ableton Live or other recording software, you can also have one or more controllers affect GearBox functions, such as amp/effect parameters, increment through Presets, Mute outputs, switch to the tuner, and more! This is all done in the Line 6 Driver MIDI Control Settings Panel:

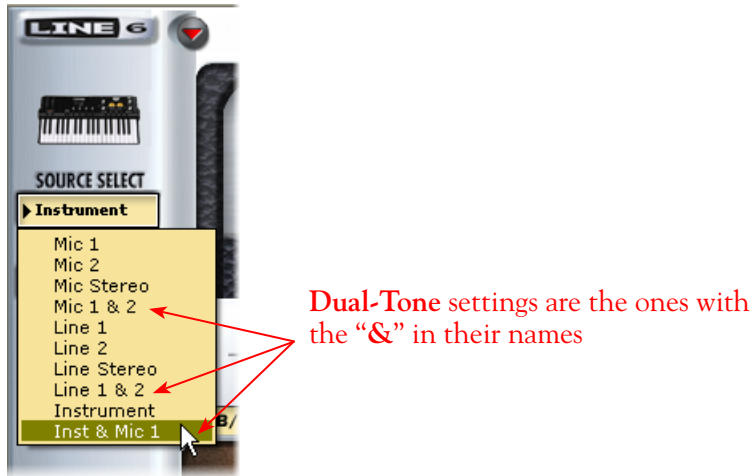
KB37 Controllers shown here mapped to various GearBox functions

Clicking the drop-down menu reveals all GearBox parameters assignable to Knob 1

Switch/Controller	GearBox Control
Mod Wheel	None
Sound Select Prev	Previous Tone
Sound Select Next	Next Tone
Knob 1	Drive/Pre1
Knob 2	Bass/Pre2
Knob 3	Mid/LoMid(B)/Pre3
Knob 4	Treble/HiMid(B)/Pre4
Button 1	Stomp Enable
Button 2	Mod Enable
Button 3	Delay Enable
Button 4	Reverb Enable
Transport Rew	Track Rewind
Transport Fwd	Track Forward
Transport Stop	Track Stop
Transport Play	Track Play
Transport Rec	Loop Enable
Expression Pedal	Wah - Position
Footswitch 1	Stomp Enable
Footswitch 2	Tuner

### Dual-Tone GearBox Settings

Note that if you have selected one of the Dual-Tone settings in the GearBox **Source Select** menu, then the controllers will affect the parameters for Tone 1 only. The Dual-Tone settings are the ones with the “&” in their names.



For example, if you are currently using **Inst & Mic 1** as your Source, then TonePort UX2/KB37 will only trigger the assigned functions for the **Instrument** tone, which is the “Tone 1” of this Source.

### Controlling GearBox Functions via MIDI SysEx

Worth mention here is the fact that some GearBox functions are actually controlled via MIDI System Exclusive (or “SysEx” as the hip MIDI folks like to call it). These GearBox functions include Monitor and Send levels, Next/Previous Tone, GPO Track levels, etc. These can be controlled externally if you have a MIDI device or software utility capable of sending MIDI SysEx.

For more information about MIDI SysEx and external control of GearBox, please see the **MIDI Continuous Controller Reference** document, downloadable from the [GearBox Online Help](#) page.

### Guitar Port Online Player Transport Control

In addition, the following MIDI events are recognized for the Guitar Port Online (GPO) Player transport control. These 3 byte MIDI short messages (not SysEx) are based on the Mackie control specification.

GPO Transport Function	MIDI Message
Track Play	90 5E 7F
Track Stop	90 5D 7F
Track FWD Start	90 5C 7F
Track FWD Stop	90 5C 00
Track REW Start	90 5B 7F
Track REW Stop	90 5B 00

## TONEPORT CONTROLLERS AND ABLETON LIVE™ - LINE 6 EDITION

The Line 6 Audio-MIDI driver includes a **MIDI Mapping** preset that configures TonePort UX2/UX8/KB37 controllers for Ableton Live 5 Line 6 Edition, so that anytime you start a new Live Session, it will load with the following MIDI control settings:

Note – This MIDI Control functionality is also supported in the full Ableton Live versions 5 and later, and the setup instructions are the same.



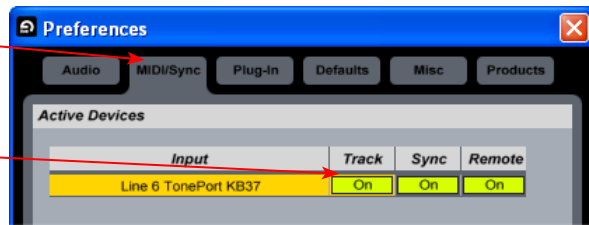
All you need to do is choose your TonePort UX2/UX8/KB37 as an “active” controller device within the Ableton Live software, and select the Ableton Live MIDI Preset in the Line 6 Driver. The following steps show you how...

1. Select your TonePort as an active remote control device in Ableton Live 5

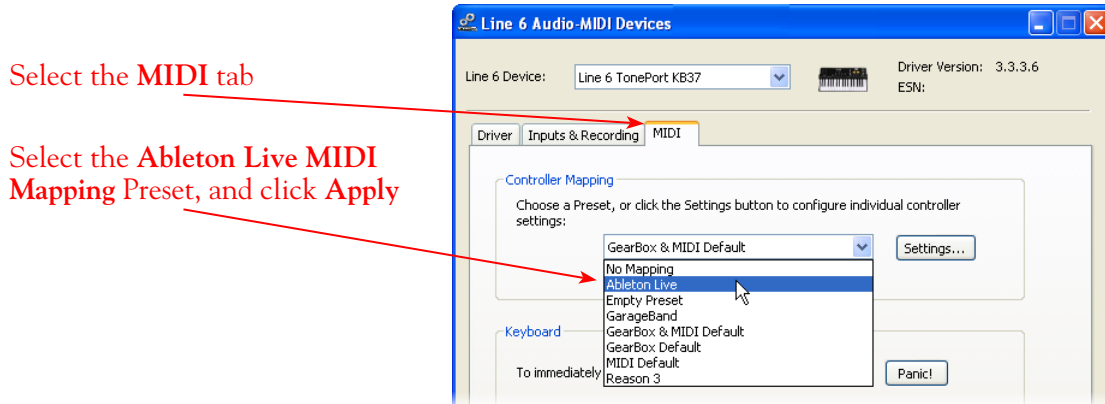
With TonePort UX2/UX8/KB37 connected to your computer’s USB port and the GearBox software running, launch Ableton Live Lite 5 and go Options > Preferences (Windows) or Live > Preferences (Mac).

Go to the **MIDI/Sync** tab

Click **Track**, **Sync** and **Remote** buttons to **On** to make your TonePort an active MIDI device/controller

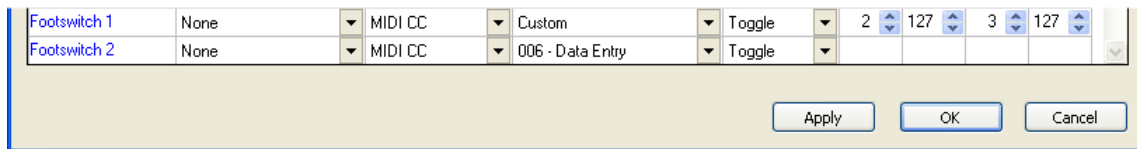


2. Once the above settings are made, go to the GearBox application Edit > Preferences > Hardware > Driver Settings, and click the MIDI Tab.



### Setting up MIDI Control Manually in Ableton Live 5 Line 6 Edition

As an example, we'll show you how to set up the Start/Stop and Punch In/Out functions for the TonePort UX2/UX8/KB37 footswitches manually. First, set up your TonePort as the active MIDI device/controller as described above, then set/verify the MIDI settings shown below in the Line 6 Driver MIDI Control Settings Panel.



In Ableton Live Lite 5 Line 6 Edition, follow these steps...

In the upper right corner of the main window, click on the **MIDI** button. It should light up blue, indicating you have entered "Learn Mode"



Then go over to the Transport and click on the **Play** button



Press **Footswitch 1**. The numbers 1/2 appear inside the Play Button (MIDI CC 2)



Click on the **Stop** button then press **Footswitch 1** again. The numbers 1/3 appear (MIDI CC3)



Now click on the **Record** button, then press Footswitch 2. The numbers 1/6 appear, meaning MIDI CC 6 toggles Record on/off



Click on the **MIDI** button when done, to exit MIDI Learn Mode



You're done! Using the same procedure, you can now re-map your TonePort Footswitches or Expression Pedal to other Live functions. Likewise, you can use the Line 6 MIDI Control Settings Panel and Live's MIDI Learn Mode to map any of the additional TonePort KB37 controllers to remotely control various operations in Ableton Live 5 Line 6 Edition. For more information on Live controls, please refer to your Ableton Live's help documentation.

## TONEPORT CONTROLLERS AND 3RD PARTY APPLICATIONS

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As covered in the [MIDI Control Configuration](#) chapter, you can choose the included mapping presets or customize the mapping of your TonePort UX2/UX8/KB37 controllers to work with just about any 3rd party recording software. To follow are instructions for a few popular software titles. Check your audio software's user manual for more information regarding its specific MIDI Control capabilities.

### Propellerhead Reason™

The Line 6 Audio-MIDI driver includes a MIDI Mapping preset that configures TonePort KB37 for use with Reason. Due to Reason's dynamic environment, the KB37 works with Reason's Remote™ interface via a Remote codec for KB37, which is installed with GearBox 3.0.

**IMPORTANT:** Reason version 3.04 (or later) is required for the Remote codec, so be sure to install the latest available Reason update (see <http://www.propellerheads.se>). Reason must also be installed *before* installing GearBox in order for the TonePort KB37 codec to appear. Running the GearBox installer again after installing Reason (or after running a Reason update installation) can fix this problem.

### What is the Remote Codec?

The Remote codec performs the task of mapping KB37 MIDI messages to Reason-specific functions. For example, the codec maps the KB37's transport control to Reason's transport functions.

But there are hundreds of knobs and buttons in Reason, and only a few controls on the KB37. To manage all those Reason parameters, the Remote codec maps the knobs and buttons to various Reason Device parameters, relative to the currently selected track. Therefore, a default map for the KB37's buttons and knobs exists for each device.

### KB37 mapping variations

Because most Reason devices have more parameters than the KB37 has physical controls, we have provided mapping variations for these devices.

When selecting a mapping variation, a new set of parameters will be configured for KB37 with a selected Reason device. For example, the KB37's "Sound Select" buttons are mapped to move up and down across tracks. Variation 2 maps the buttons to the target device's "patch up/patch down" parameters.

To switch between mapping variations in Reason, you need to use the following keystrokes:

#### Mac

[Command] + [Option] + numerical keys [1] to [10].  
[1] selects the default standard mapping

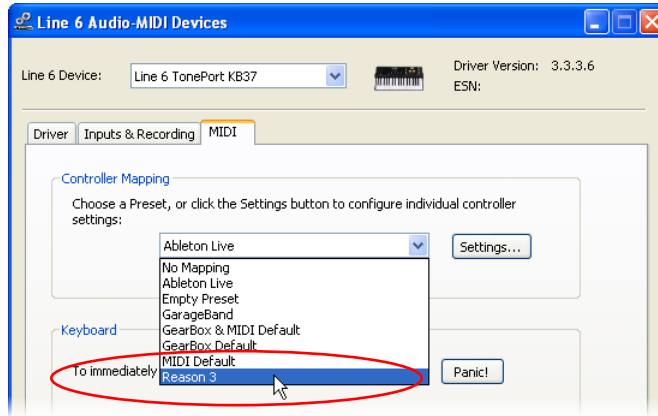
#### Windows

[Ctrl] + [Alt] + numerical keys [1] to [10]  
[1] selects the default standard mapping

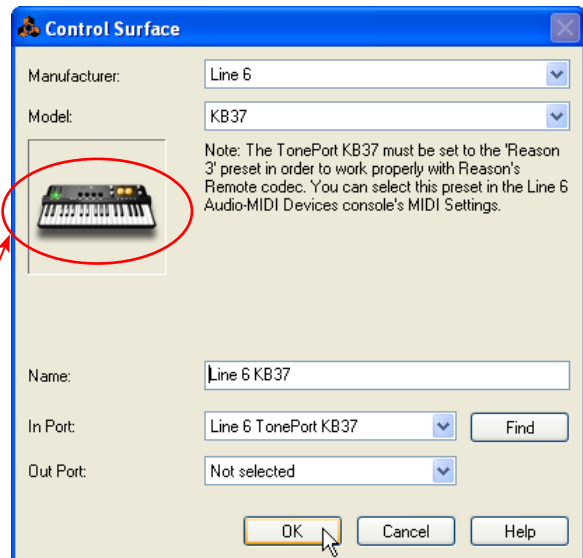
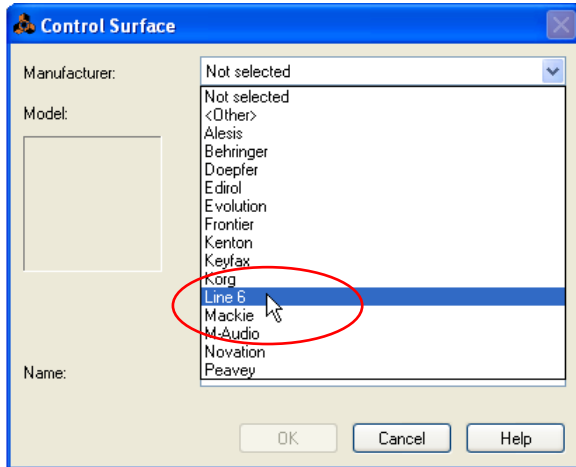
Tip - You can get an overview of which Reason parameters are assigned to a given mapping variation by selecting "Remote Override Edit Mode" from Reason's Options menu.

**To use the KB37 with Reason's Remote codec:**

1. Select the "Reason 3" MIDI Mapping preset and click OK:



2. In Reason, open the "Control Surfaces and Keyboards" page in Reason's Preferences dialog, click 'Add', then select "Line 6" from the Manufacturer list, and click OK:

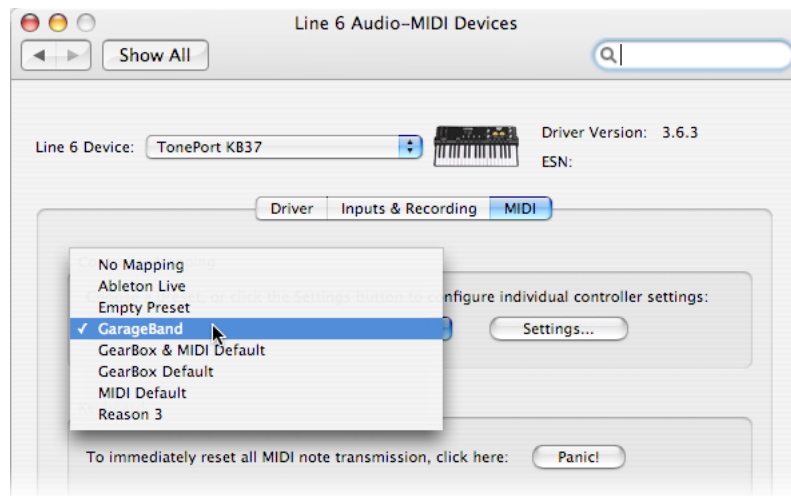


Voila! You should see the KB37 picture appear in the Model box

## Apple GarageBand™

TonePort KB37 works automatically with GarageBand to trigger notes and play the Software Instruments within a GarageBand track - all that is needed for this is to connect the KB37 to your Mac's USB port and then launch GarageBand. When a Software Instrument track is selected, playing on the KB37 keyboard will trigger its notes, and the Pitch and Mod wheel will often each control a performance parameter, depending on how the Software Instrument is written to utilize them.

Additionally, the Line 6 Audio-MIDI driver includes a **MIDI Mapping** preset that configures TonePort KB37's Knob 1 and Knob 2 to control the current GarageBand track's Volume and Pan, respectively. To load the GarageBand preset, launch GearBox and open the Preferences dialog from the GearBox menu, then select the MIDI/Control tab. In the MIDI Mapping menu, select the GarageBand preset:



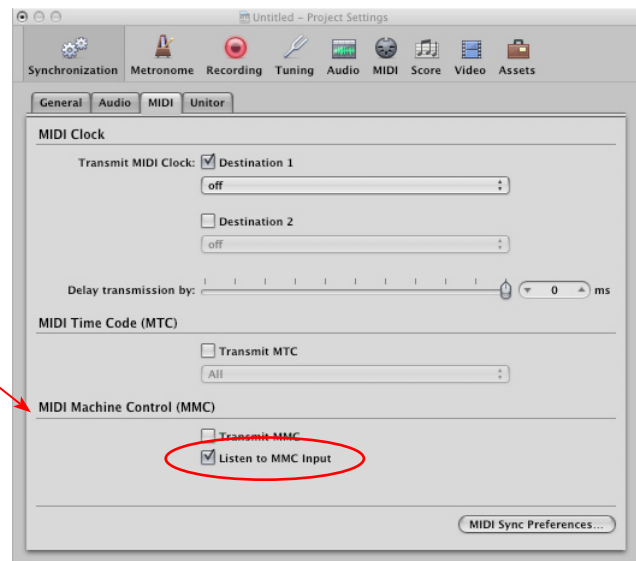
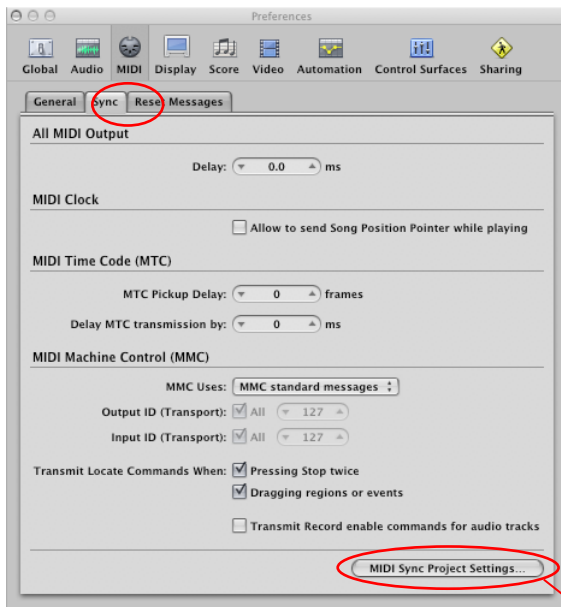
GarageBand uses its own specific protocol for controlling most of its other parameters, therefore, KB37 cannot access other GarageBand functions directly. However, there are 3rd party software utilities you can install on your Mac® that will allow you to use the KB37 Transport buttons to control GarageBand's transport functions. For more information on this please check out our Online Support document, cleverly titled [Control Garageband with KB37](#).



## Apple Logic™

TonePort KB37 can communicate with Logic version 7 or 8 to trigger Logic's Transport functions. The **Listen to MMC Input** must be enabled in Logic's Preferences - this allows Logic to receive MMC messages from KB37. Follow these steps to configure Logic:

1. With KB37 connected to your computer's USB port, launch Logic and go to **Preferences > MIDI**.
2. Select the **Sync** tab.
3. Click the **MIDI Sync Project Settings...** button at the bottom right of the Sync tab; this launches the **Song Settings** dialog.
4. In the section labeled **MIDI Machine Control (MMC)**, check the **Listen to MMC Input** option.



Note that this is a per-Song option in Logic. To make this option global, you must modify your Logic template file with this MMC setting.

## MOTU Digital Performer™

TonePort KB37's transport buttons can be mapped to control the transport within MOTU Digital Performer 5. Here are the steps...

With TonePort KB37 connected to your computer's USB port, launch GearBox and go to Preferences > MIDI/Control tab. Press the Line 6 Audio-MIDI Devices button to launch the MIDI Control Settings dialog. We'll walk you through creating a preset in this dialog, and then configuring Digital Performer to allow its transport to be controlled remotely by KB37...

1. Enter the settings as shown below for the Transport functions:

Transport Rew	None	⌵	MIDI CC	⌵	115 - CC 115	⌵	Momentary	⌵				
Transport Fwd	None	⌵	MIDI CC	⌵	116 - CC 116	⌵	Momentary	⌵				
Transport Stop	None	⌵	MIDI CC	⌵	117 - CC 117	⌵	Momentary	⌵				
Transport Play	None	⌵	MIDI CC	⌵	118 - CC 118	⌵	Momentary	⌵				
Transport Rec	None	⌵	MIDI CC	⌵	119 - CC 119	⌵	Momentary	⌵				

2. Type in a title (e.g. - "Digital Performer Transport") in the field at the top right of the dialog and click the button to save this as a preset

3. Click 'Apply' (if available), then 'OK' to dismiss the dialog

4. Open (or return focus to) Digital Performer

5. Type <Shift+L> or select the Setup menu, Commands item

6. Clear any existing MIDI note mappings found in this list to avoid unexpected events

7. Type 'stop' into the search string (top of the dialog window) and click 'Search' (dialog will scroll to the appropriate section of the list)

8. Under Transport Commands, click the cell in the "Play" row, "MIDI EVENT" column

9. Press-and-hold the Play button on the KB37 and press <Enter> or <Return> before releasing the KB37 button

10. Notice that the captured MIDI CC msg. is '#118 | 127' (momentary down state)

11. Under the adjacent source field, select TonePort KB37 from the list

12. Repeat the same procedure for the remaining transport buttons; the Learn function should ensure that the proper CCs are captured. Note: the <enter>-while-depressed part is crucial, as releasing the KB37 button before accepting the captured message can cause it to 'listen' for a value of '0' from the assigned CC

13. **Important:** Scroll to the top of the Commands list and click the square box to the left of 'Master Master' under the heading 'MIDI Masters', so it's in a grey [active] state

You're done - KB37 Transport buttons should now work with Digital Performer!

# ADDITIONAL ONLINE RESOURCES

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Hungry for more info? We've got plenty of helpful resources just a click away...

-Several additional Help documents covering MIDI CC references, computer recording, product Release Notes and more are available here:

[GearBox Online Help](#)

-For technical support, choose from the many options listed on the Line 6 Support page:

[Line 6 Support](#)

-Official Line 6 hardware Product Manuals can be downloaded here:

[Line 6 Product Manuals](#)

