GEARBOX MIDI SETUP AND CONTINUOUS CONTROLLER REFERENCE

The GearBox application exposes all its parameters to be tweaked remotely by MIDI controller hardware units, and even software MIDI sequencers. These hardware and software products communicate with the GearBox software by sending MIDI Continuous Controller (or MIDI CC) messages. A MIDI CC is a specific type of message consisting of a "controller" number followed by a data value. When you access a button, slider, knob or pedal on your MIDI controller, this MIDI CC message is what is transmitted, which makes it possible to do things such as remotely control the GearBox Volume, Delay Time, bypass individual effects, etc. in real-time! By configuring the GearBox Preferences > MIDI Input selector to receive MIDI messages from your MIDI controller or MIDI port that the controller device is plugged into, GearBox will respond to the incoming MIDI CC messages. Additionally, GearBox is also capable of transmitting MIDI CC's. This makes it possible to control another hardware device's parameters in real-time, or even record the GearBox parameter moves into a MIDI sequencer.

The key to all this communication is the MIDI CC mapping. The following pages include instructions for setting up MIDI communication with your hardware/GearBox and other MIDI devices, as well as a master reference chart and model tables for Amps, Cabs and Effects to serve as a detailed reference document of MIDI assignments for GearBox parameters. With this information you can set the MIDI CC values for your controller device to match the GearBox parameters to be controlled.

Connecting a MIDI Controller device

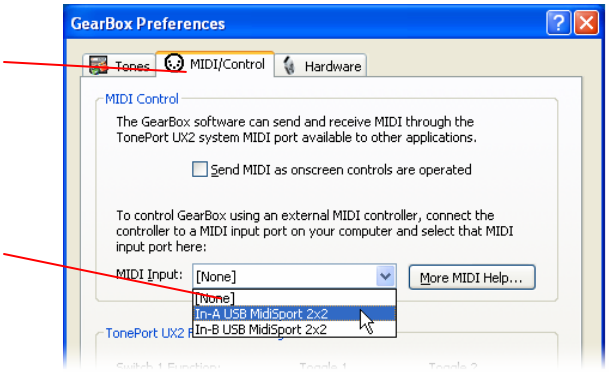
When using a Line 6 device, the GearBox application can be configured to have several of its effects parameters controlled in real-time by a remote MIDI controller device, or from another software that sends MIDI CC messages. The following feature and configuration descriptions apply to both Windows and Mac systems. Be sure to connect the USB cable from your TonePort UX1 or UX2 into your computer's USB port, and then proceed with the following steps…

For the GearBox software to receive MIDI input from an external controller, the MIDI device must first be connected to a MIDI port on your computer. Typically, the controller unit will connect via a standard MIDI 5-pin cable to an existing MIDI In port on your computer. Or, if the controller device connects via a USB cable itself, it will act as its own MIDI port once installed on your computer.

Once your MIDI controller device is connected, launch the GearBox software and go to **Edit > Preferences** (Windows) or **GearBox > Preferences** (Mac) to select its MIDI port…

Go to the **MIDI/Control tab**

Choose the **MIDI port** your controller device is connected to as your **MIDI Input**



Set your MIDI controller to control GearBox effects parameters

Within your device's settings panel will be a way to tell it to send a specific numbered MIDI CC message. If you mach the MIDI CC number to the desired GearBox effect parameter's MIDI CC, this will allow the controller device to access it – refer to the GearBox Help for a complete list of the assigned MIDI CC numbers for all GearBox parameters. GearBox is automatically "listening" to all 16 MIDI channels, therefore, you can set your controller device to transmit on whichever MIDI channel you prefer. To follow are a few example configurations for triggering GearBox from an external MIDI controller device.

Controlling the GearBox Volume

The GearBox Volume effect can be remotely controlled by setting your MIDI Controller to send MIDI CC #7. The CC's *value* you send from your controller device will then adjust the GearBox Tone's volume - (the "0" value is minimum volume and "127" is maximum). If you have a MIDI controller device that has a foot pedal, then you can assign this pedal to MIDI CC #7 and use it just as you would a Volume pedal. As soon as this setting is made, you should be able to hear the current GearBox tone's volume adjust up and down.

Use the **MIN VOL** knob within the effect panel to set the lowest value that the Volume will adjust to. This knob is not controlled by your MIDI controller device.

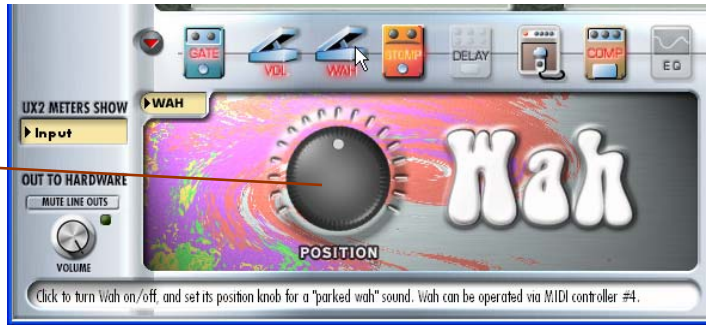


Manually adjust the MIN VOL knob to set the lower volume limit.

Controlling the GearBox Wah effect

The GearBox Wah effect can be remotely controlled by setting your MIDI Controller to MIDI CC #4. The CC's *value* you send from your controller device will then adjust the GearBox Wah effect's "Position" parameter - (the "0" value is the "heel" position and "127" the "toe" position). If your MIDI controller device has a foot pedal, then you can assign this pedal to MIDI CC #4 and use it just as you would a Wah pedal (which is also way more fun than turning the knob with your mouse). As soon as this setting is made, you should be able to move the device's pedal and see the Wah's **POSITION** knob update in real-time, and of course hear the GearBox Wah do its thing (note that the visual knob update may not be responsive to fast moves, but the audible response should be instant).

Once your controller device is set to **MIDI CC #4**, you should see the **POSITION** knob respond to the device's adjustments



Toggling effects on/off

Another use for a remote controller device is to toggle on and off functions for the components in GearBox, such as toggling the bypassing of an individual effect. For example, you can use set a switch on your MIDI device to MIDI CC #63 to control the GearBox EQ effect bypass. A value of 0 – 63 sets the EQ to bypass and a value of 64 to 127 sets the EQ to on. You can therefore set up several toggle switches on your external controller device to individually toggle multiple effects on and off.

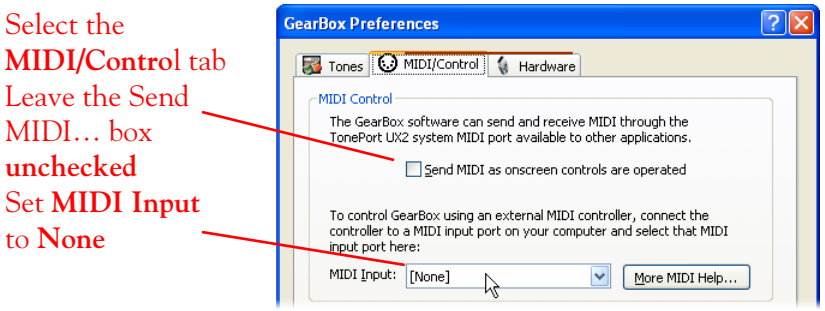
Control GearBox remotely using MIDI sequencing software

Most MIDI sequencing applications also provide the ability to send out MIDI CC commands. GearBox can also receive MIDI CC commands from your sequencing software and respond in real-time just as it does from a MIDI hardware controller device. This allows you to use the MIDI tracks in your sequencer to create, edit and then send controller data to GearBox to remotely control its settings. This can be a handy way to "automate" your GearBox effects, and also allows you to go in and edit the automation using all the editing tools of your sequencing software.

To follow is an example using Windows with a TonePort UX2, GearBox and the Cakewalk Sonar 5 Producer version as the sequencing software to remotely automate and control the GearBox Wah effect during playback of the Cakewalk sequence. The steps shown are typical for most other popular MIDI sequencing applications as well…

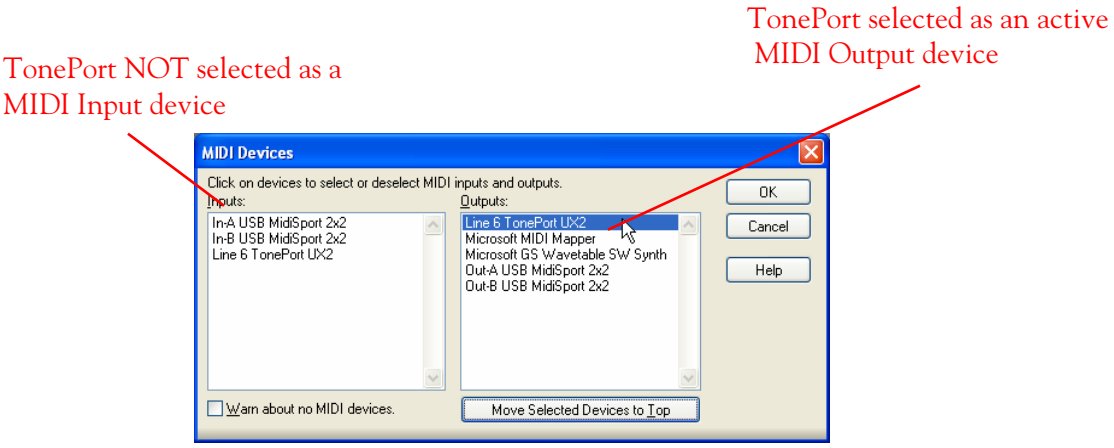
Launch GearBox and check your MIDI settings

In the GearBox software, it is actually not necessary to configure a MIDI input or output since this will be set within the MIDI sequencing software. Go to Edit > Preferences (Windows) or GearBox > Preferences (Mac) and set the MIDI Input to None.



Set your hardware as the MIDI Out device

You first need to configure the sequencing software to use TonePort as your MIDI Output device. Sonar offers this in the Options > MIDI Devices dialog. To avoid creating a recursive MIDI "loop", do not choose TonePort as your MIDI In device for this same sequence.*



* In this example, we're specifically configuring the sequencing software to remotely control GearBox functions; therefore, we only need MIDI messages to go out of the sequencer to your Line 6 Hardware as the MIDI Output device. GearBox is also capable of sending MIDI controller information for adjustments made on its controls, which can then be recorded within a MIDI sequencer. If you want to utilize MIDI control data coming *from* GearBox, then you will need to choose your hardware as a MIDI Input device in the sequencer. To avoid creating a recursive MIDI loop in this scenario, most sequencing software offers a "MIDI Echo" or "Patch-through" option that can be turned off.

Configure a MIDI track to send its output to your hardware

Set the MIDI track you want to create your controller data within to send its output to your hardware. Since the GearBox software is "listening" to MIDI data on all channels, you can choose whichever MIDI channel you like for output.

TonePort selected as the Output for a MIDI track

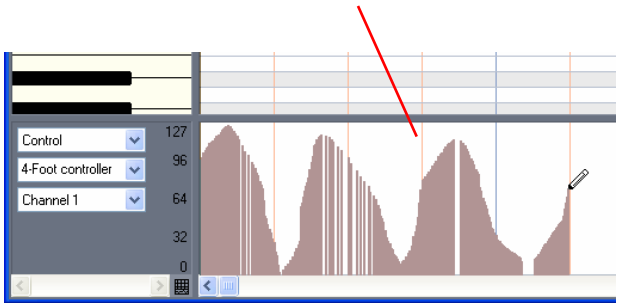


Create or record your controller data

The controller values can now be entered in the MIDI track. In most sequencers you can "record" the mouse adjustments of its parameters or the input of a hardware controller, or you can manually enter controller data into your MIDI track. In this example, we'll "draw" the desired data into the Piano Roll editor window for the track.
In Sonar's Piano Roll window, you need to set three items for the track – the MIDI data type, the MIDI CC number you want to trigger with this data, and the MIDI Channel to send it to. Use the following settings:

Draw in a dramatic "curve" pattern to trigger wide sweeps for the Wah effect

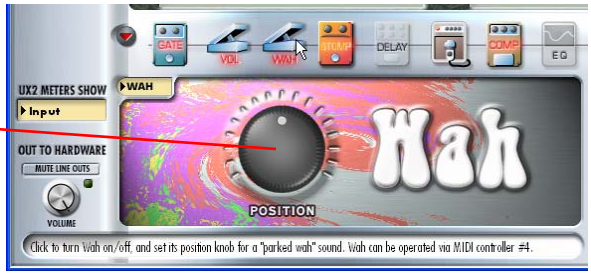
Choose **Control** for the MIDI data type
Choose **MIDI CC #4** to trigger the GearBox Wah effect
Choose the desired **MIDI Channel** to send to



Play back your sequence and trigger GearBox

Now when you play your MIDI sequence, the track's controller data that was just created will trigger the GearBox Wah effect. If you view the GearBox effect display you will see the POSITION knob respond, and hear the Wah effect for whatever audio is currently input through GearBox.

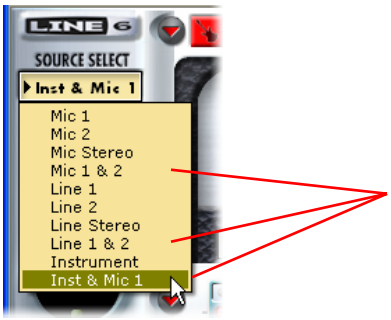
Since the sequencer's MIDI track is sending MIDI CC #4 controller data, you should see the GearBox POSITION knob graphic respond to the sequence playback



The above steps can be repeated to trigger any additional GearBox parameters using your sequencer software's MIDI tracks. Since all this controller data is now part of a MIDI sequence, the sequence can also be edited, saved and recalled at a later time!

Dual-Tone GearBox settings and remote control

Note that if you have selected one of the GearBox **Dual Tone** settings in the **Source Select** menu, then all MIDI remote controller data sent to GearBox will map to the Actions for the first Tone only. The Dual Tone settings are the ones with the "&" in their names.



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 the MIDI CC assignments you have made in your MIDI controller device will only trigger the GearBox functions for the **Instrument** Tone.

MIDI CC Reference

The following pages include a MIDI CC Reference Chart lists which shows all Gearbox controllable parameters, the MIDI CC controller number assigned to each parameter, and descriptions for what is being controlled.

Amp Model – lists the specific type of amplifier model (guitar, bass or mic pre-amp) since some parameters do not exist for al three of these amp model types.

Parameter – The chart lists all parameters that can be remotely controlled by MIDI CC's

Notes – Some Parameters may not be too obvious by name alone, or have some special behaviors for how their data value ranges are applied, so this column is where to look for this info.

MIDI CC # and Range – This set of columns lists the assigned MIDI CC controller number, and the range for the data values supported. You can see that most CC's offer a range from 0 to 127, which typically map to a knob or slider. If the parameter is a simple on/off type, then usually values from 0 to 63 will all set it to "off" and 64 to 127 will set the parameter to "on". Check the Notes column to see if other behaviors apply.

Transmit and Receive – A check appears in the **TX** column if the parameter transmits the MIDI CC for this parameter. A check appears in the **RX** column to indicate if the parameter is capable of being controlled by the received MIDI CC.

Smoothing – The parameters indicated with "Yes" include a MIDI smoothing functionality. As the name suggests, this allows rapid parameter changes to be interpreted so that the result sounds more natural, with fewer audible artifacts during the adjustment.

The **Model Table** pages that follow the MIDI CC Reference Chart provide the detailed breakdown of MIDI CC values that are assigned to the individual Amp, Cabinet and Effects Models. The Notes column within the MIDI CC chart often refer to these tables when more information is available for a particular parameter.

GearBox - MIDI CC Reference Chart			MIDI CC # and Range			Transmit Receive		Smoothed	MIDI Spec RP labels
Amp Model	**Parameter**	**Notes**	**CC#**	**Min**	**Max**	**TX**	**RX**		
	Tweak	received Mod.Wheel (CC 1) messages modify a specific parameter value. Destination parameter set by CC 108; range determined by loaded effects Models	1	0	127		√	various (destination-dependent)	Modulation Wheel
	Wah Position		4	0	127	√	√	Yes	Foot Controller
	Compressor Gain	0~+16 dB	5	0	127	√	√	Yes	Portamento Time
	Volume Pedal	Realtime (not saved in Tone)	7	0	127	√	√	Yes	Volume
	Compression Threshold	127=0 dB <-> 0= -63 dB	9	0	127	√	√	Yes	
	Pan control for Record Send (and Monitor) 1/2	0=Full Left, 64=Center, 127=Full Right Realtime control (not saved in Tone)	10	0	127		√	Yes	Pan
	Amp Model Select	Loads Amp Model with knob values. Range varies, depending on installed Packs (see Amp Model tables)	12	0	-	√	√	Yes	Effect Control 1
Gtr/Bass	Amp Model Drive		13	0	127	√	√	Yes	Effect Control 2
Mic-pre	Mic Pre Amp Param 0	see Pre-amp Model MIDI Map table	13	0	127	√	√	Yes	
Gtr/Bass	Bass		14	0	127	√	√	Yes	
Mic-pre	Mic Pre Amp Param 1	see Pre-amp Model MIDI Map table	14	0	127	√	√	Yes	
Gtr	Mid		15	0	127	√	√	Yes	
Bass	Mic Pre-amp Param 2	see Pre-amp Model MIDI Map table	15	0	127	√	√	Yes	
Mic-pre	Low Mid		15	0	127	√	√	Yes	
Gtr	Treble		16	0	127	√	√	Yes	Gen. Purpose Slider 1
Bass	Mic Pre-amp Param 3	see Pre-amp Model MIDI Map table	16	0	127	√	√	Yes	
Mic-pre	High Mid		16	0	127	√	√	Yes	
Gtr/Bass	Guitar/Bass Amp Channel Vol.		17	0	127	√	√	Yes	Gen. Purpose Slider 2
Mic-pre	Mic Pre Amp Param 4	see Pre-amp Model MIDI Map table	17	0	127	√	√	Yes	
	Reverb Mix		18	0	127	√	√	Yes	Gen. Purpose Slider 3
	4-band EQ Freq 1 (low shelving)	Non-linear mapping	20	0	127	√	√	No	
Gtr	Presence		21	0	127	√	√	Yes	
Bass	Treble		21	0	127	√	√	Yes	
Mic-pre	Mic Pre Amp Param 5	see Pre-amp Model MIDI Map table	21	0	127	√	√	Yes	
	Noise Gate Enable	0~63=Off ; 64~127=On	22	0	127	√	√	No	
	Gate Threshold	0=0dB; 96~127=-96dB	23	0	96	√	√	Yes	
	Gate Decay Time	0=.1msec; 127=3000msec	24	0	127	√	√	Yes	
	Stomp Enable	0~63=Off ; 64~127=On	25	0	127	√	√	No	
	Comp Enable	0~63=Off ; 64~127=On	26	0	127	√	√	No	
	Delay Enable	0~63=Off ; 64~127=On	28	0	127	√	√	No	
	Modulation Speed MSB	coarse adjust (CC 61 is fine adjust)	29	3	33	√	√	No	
	Delay Time MSB	coarse adjust (CC 62 is fine adjust)	30	0	127	√	√	No	

Note - When GearBox is in Dual Tone Mode, only Tone 1 receives and responds to incoming MIDI control messages.

GearBox - MIDI CC Reference Chart			MIDI CC # and Range			Transmit Receive		Smoothed	MIDI Spec RP labels
Amp Model	**Parameter**	**Notes**	**CC#**	**Min**	**Max**	**TX**	**RX**		
	Delay Time Note value	1=Whole, 2=Dotted Half, 3=Half, 4=Half Triplet, 5=Dotted Quarter, 6=Quarter, 7=Quarter Triplet, 8=Dotted Eighth, 9=Eighth, 10=Eighth Triplet, 11=Dotted Sixteenth, 12=Sixteenth, 13=Sixteenth Triplet	31	0	127	√	√	No	
	4-band EQ Freq 2 (peaking)	Non-linear mapping	32	0	127	√	√	No	Bank (Fine)
	Delay Param 2		33	0	127	√	√	Varies	
	Delay Mix		34	0	127	√	√	Yes	
	Delay Param 3		35	0	127	√	√	Varies	
	Reverb Enable	0~63=Off ; 64~127=On	36	0	127	√	√	No	
	Reverb Model Select	Range depends on Packs (see model tables)	37	0	-	√	√	No	
	Reverb Decay	labeled "Dwell" on Spring Models	38	0	127	√	√	Yes	
	Reverb Tone		39	0	127	√	√	Yes	
	Reverb Pre-Delay	n/a to Spring Models	40	0	127	√	√	No	
	Reverb Pre/Post	0~63 = Pre-Amp Model, 64~127 = Post-Amp Model	41	0	127	√	√	No	
	EQ Freq 2 (peaking)	Non-linear mapping	42	0	127	√	√	Yes	
	Wah Enable	0~63=Off ; 64~127=On	43	0	127	√	√	Yes	
Bass	FX X-Over Lo Cut Frequency	Range: Off, 6.3~793.8 Hz. in 6.25 Hz	45	0	127	√	√		
	Volume Pedal Minimum		46	0	127	√	√	Yes	
	Volume Pre/Post	0~63 = Pre-Amp Model, 64~127 = Post-Amp Model	47	0	127	√	√	Yes	
Bass	D.I.Blend In (Bass Amp Models)	71=Unity (positive gain at higher values)	48	0	127	√	√	Yes	
Bass	D.I. Delay (BassPODxt)	0.0 - 12.7 mSecs in 0.1 mSec steps	49	0	127	√	√	No	
	Mod Enable	0~63=Off ; 64~127=On	50	0	127	√	√	No	
	Modulation Speed Note value	1=Whole, 2=Dotted Half, 3=Half, 4=Half Triplet, 5=Dotted Quarter, 6=Quarter, 7=Quarter Triplet, 8=Dotted Eighth, 9=Eighth, 10=Eighth Triplet, 11=Dotted Sixteenth, 12=Sixteenth, 13=Sixteenth Triplet	51	0	13	√	√	No	
	Mod Param 2	see Effects Models MIDI CC Map	52	0	127	√	√	Varies	
	Mod Param 3	see Effects Models MIDI CC Map	53	0	127	√	√	Varies	
	Mod Param 4	see Effects Models MIDI CC Map	54	0	127	√	√	Varies	
	Mod Param 5	see Effects Models MIDI CC Map	55	0	127			Varies	
	Mod Mix		56	0	127	√	√	Yes	
	Mod Pre/Post	0~63 = Pre-Amp Model, 64~127 = Post-Amp Model	57	0	127	√	√	No	
	Mod Model Select	see Effects Model list	58	0	-	√	√	No	

Note - When GearBox is in Dual Tone Mode, only Tone 1 receives and responds to incoming MIDI control messages.

GearBox - MIDI CC Reference Chart			MIDI CC # and Range			Transmit Receive		Smoothed	MIDI Spec RP labels
Amp Model	**Parameter**	**Notes**	**CC#**	**Min**	**Max**	**TX**	**RX**		
	EQ Freq 3 (peaking)	Non-linear mapping	60	0	127	√	√	No	
	Mod Speed LSB	fine adjust (CC 29 is coarse adjust)	61	0	127	√	√	No	
	Delay Time LSB	fine adjust (CC 30 is coarse adjust)	62	0	127	√	√	No	
	EQ Enable	0~63=Off ; 64~127	63	0	127	√	√	No	
	Tap Tempo	64~127 = a Tap; values <64 ignored	64	0	127	√	√	n/a	Pedal (sustain)
All	Amp/Preamp Bank Select	The setting of this control determines how CC 12 messages (Amp Model Select) will be interpreted. 0=load model from Guitar Amp Model set; 1=load model from Bass Amp Model set; 2=Preamps	66	0	2	√	√	No	Pedal-Sostenuto
Gtr/Bass	Cab Bank Select (Transmit - accompanies CC71 transmission; Receive - no action taken until CC 71 value is received)	The setting of this control determines how CC 71 messages (Cab Model Select) will be interpreted. 0=load model from Guitar Cab Model set; 1=load model from Bass Cab Model set	67	0	1	√	√	No	Pedal-Soft
	Tuner Enable	0~63=Off ; 64~127=On	69	0	127	√		No	Hold 2
Gtr/Bass	A.I.R. Mic Model Select	Selection based on loaded Cab Model	70	0	3	√	√	No	Sound Variation
Gtr/Bass	A.I.R. Cabinet Select	Range varies (see model tables)	71	0	-	√	√	No	Harmonic Content
	*Stomp Pre/Post	0~63 = Pre-Amp Model, 64~127 = Post-Amp	74	0	127	√	√		
	Stomp Model	Range depends on Packs (see model tables)	75	0	-	√	√	No	Sound Control 6
All	A.I.R. Room/Early Reflection Leve		76	0	127	√	√	Yes	Sound Control 7
	EQ Freq 4 (high shelving)	Non-linear mapping	77	0	127	√	√	No	Sound Conrol 8
	Stomp Param 2	(see model tables)	79	0	127	√	√	Varies	Sound Control 10
	Stomp Param 3	(see model tables)	80	0	127	√	√	Varies	Gen. Purpose Button 1
	Stomp Param 4	(see model tables)	81	0	127	√	√	Varies	Gen. Purpose Button 2
	Stomp Param 5	(see model tables)	82	0	127	√	√	Varies	Gen. Purpose Button 3
	Stomp Param 6	(see model tables)	83	0	127	√	√	Varies	Gen. Purpose Button 4
	Delay Param 4	(see model tables)	85	0	127	√	√	Varies	
	Delay Pre/Post	0~63 = Pre-Amp Model, 64~127 = Post-Amp Model	87	0	127	√	√	No	
	Delay Model Select	Range depends on Packs (see model tables)	88	0	-	√	√	Yes	
	Tempo MSB		89	2	18	√	√	Yes	
	Tempo LSB		90	0	127	√	√	Yes	
Mic-pre	Mic Pre-amp Param 6	see Pre-amp Model MIDI Map table	92	0	127	√	√	Yes	Tremolo Level
Mic-pre	Mic Pre-amp Param 7	see Pre-amp Model MIDI Map table	93	0	127	√	√	Yes	Chorus Level
Mic-pre	Mic Pre-amp Param 8	see Pre-amp Model MIDI Map table	94	0	127	√	√	Yes	Celeste Level
Mic-pre	Mic Pre-amp Param 9	see Pre-amp Model MIDI Map table	95	0	127	√	√	Yes	Phaser Level
Mic-pre	Mic Pre-amp Param 10	see Pre-amp Model MIDI Map table	102	0	127	√	√	Yes	
Mic-pre	Mic Pre-amp Param 11	see Pre-amp Model MIDI Map table	103	0	127	√	√	Yes	
	*Amp Bypass Channel Volume	received and Saved, but no audio impact	105	0	127		√	Yes	
Note - When GearBox is in Dual Tone Mode, only Tone 1 receives and responds to incoming MIDI control messages.									
	*Amp Bypass Engage	0~63=Off (Amp On); 64~127=On (Amp Off) This control's value is preserved when Saving a Tone, but is ignored when Opening a Tone.	111	0	127		√	Yes	
	4-band EQ Gain 1 (low shelving)		114	0	127	√	√	Yes	
	4-band EQ Gain 2 (peaking)		116	0	127	√	√	Yes	
	4-band EQ Gain 3 (peaking)		117	0	127	√	√	Yes	
	4-band EQ Gain 4 (high shelving)		119	0	127	√	√	Yes	
	* Not presented in GUI	Note - When GearBox is in Dual Tone Mode, only Tone 1 receives and responds to incoming MIDI control messages.							

GearBox Model Tables

Note - When GearBox is in Dual Tone Mode, only Tone 1 receives and responds to incoming MIDI control messages.

	Amp Models				
CC 66 Bank Select		**0**		**1**	**2**
CC 12 Value loads:	**Pack**	**Guitar Amp Model Name**	**Pack**	**Bass Amp Model Name**	**Mic PreAmp Model Name**
0	n/a	No Amp		-	-
1	Included	Tube Instrument Preamp	Bass Exp. Pack	Tube Preamp	American Classic
2	PowerPack	Line 6 21st Century Clean	Bass Exp. Pack	L6 Classic Jazz	Vintage UK
3	PowerPack	Line 6 JTS-45	Bass Exp. Pack	L6 Brit Invader	Lo-Fi
4	PowerPack	Line 6 Class A	Bass Exp. Pack	L6 Super Thor	Vintage
5	PowerPack	Line 6 Mood	Bass Exp. Pack	L6 Frankenstein	Modern
6	Included	Line 6 Spinal Puppet	Bass Exp. Pack	L6 Ebony Lux	Console
7	Included	Line 6 Chemical X	Bass Exp. Pack	L6 Doppelganger	-
8	Included	Line 6 Insane	Bass Exp. Pack	Sub Dub	-
9	Included	Line 6 Piezacoustic 2	Bass Exp. Pack	Amp 360	-
10	PowerPack	2001 Zen Master	Bass Exp. Pack	Jaguar	-
11	Included	1953 Small Tweed	Bass Exp. Pack	Alchemist	-
12	Included	1958 Tweed B-Man	Included	Rock Classic	-
13	PowerPack	1960 Tiny Tweed	Included	Flip Top	-
14	Included	1964 Blackface 'Lux	Included	Adam and Eve	-
15	PowerPack	1965 Double Verb	Bass Exp. Pack	Tweed B-Man	-
16	PowerPack	1960 Two-Tone	Included	Silverface Bass	-
17	PowerPack	1973 Hiway 100	Bass Exp. Pack	Double Show	-
18	PowerPack	1965 Plexi 45	Included	Eighties	-
19	Included	1968 Plexi Lead 100	Bass Exp. Pack	Hiway 100	-
20	Included	1968 Plexi Jump Lead	Bass Exp. Pack	Hiway 200	-
21	PowerPack	1968 Plexi Variac'd	Bass Exp. Pack	British Major	-
22	Included	1990 Brit J-800	Bass Exp. Pack	British Bass	-
23	PowerPack	1996 Brit JM Pre	Bass Exp. Pack	California	-
24	PowerPack	1996 Match Chief	Bass Exp. Pack	Jazz Tone	-
25	PowerPack	1993 Match D-30	Bass Exp. Pack	Stadium	-
26	Included	2001 Treadplate Dual	Bass Exp. Pack	Studio Tone	-
27	PowerPack	1985 Cali Crunch	Bass Exp. Pack	Motor City	-
28	Included	1987 Jazz Clean	Bass Exp. Pack	Brit Class A 100	

GearBox Model Tables

Note - When GearBox is in Dual Tone Mode, only Tone 1 receives and responds to incoming MIDI control messages.

	Amp Models- Continued				
CC 66 Bank Select		**0**	**CC 66 Bank Select**		**0**
CC 12 Value loads:	**Pack**	**Guitar Amp Model Name**	**CC 12 Value loads:**	**Pack**	**Guitar Amp Model Name**
29	Included	1993 Solo 100 Head	54	Metal Shop	Line 6 Throttle
30	PowerPack	1960s Super O	55	Collector Classics	2002 Bomber X-TC
31	PowerPack	1960 Class A-15	56	Collector Classics	2003 Deity Crunch
32	Included	1967 Class A-30 Top Boost	57	Collector Classics	1963 Blackface Vibro
33	PowerPack	Line 6 Agro	58	Collector Classics	1967 Double Show
34	PowerPack	Line 6 Lunatic	59	Collector Classics	1972 Silverface Bass
35	Included	Line 6 Treadplate	60	Collector Classics	1996 Mini Double
36	PowerPack	Variax Acoustic	61	Collector Classics	1960 Gibtone Expo
37	Metal Shop	2002 Bomber Uber	62	Collector Classics	1968 Brit Plexi Bass 100
38	Metal Shop	2003 Connor 50	63	Collector Classics	1969 Brit Plexi Lead 200
39	Metal Shop	2003 Deity Lead	64	Collector Classics	1967 Wishbook Silver 12
40	Metal Shop	2003 Deity's Son	65	Collector Classics	1962 Super O Thunder
41	Metal Shop	2002 Angel P-Ball	66	Collector Classics	Line 6 Bayou
42	Metal Shop	1987 Brit Gain Silver J	67	Collector Classics	Line 6 Crunch
43	Metal Shop	1992 Brit Gain J-900 Clean	68	Collector Classics	Line 6 Purge
44	Metal Shop	1992 Brit Gain J-900 Dist	69	Collector Classics	Line 6 Sparkle
45	Metal Shop	2003 Brit Gain J-2000	70	Collector Classics	Line 6 Super Clean
46	Metal Shop	2001 Cali Diamond Plate	71	Collector Classics	Line 6 Super Sparkle
47	Metal Shop	2002 Mississippi Criminal	72	Collector Classics	Line 6 Twang
48	Metal Shop	Line 6 Big Bottom	101	Included	Citrus D30
49	Metal Shop	Line 6 Chunk Chunk	102	PowerPack	Class A30 Fawn
50	Metal Shop	Line 6 Fuzz	103	Included	Brit Gain 18
51	Metal Shop	Line 6 Octone	104	PowerPack	J 2000 #2
52	Metal Shop	Line 6 Smash	105	PowerPack	L6 Boutique #1
53	Metal Shop	Line 6 Sparkle Clean	106	PowerPack	L6 Mod Hi Gain #1

GearBox Model Tables

Note - When GearBox is in Dual Tone Mode, only Tone 1 receives and responds to incoming MIDI control messages.

Cabinet Models			
CC 67 Bank Select	**0**	**1**	
CC 71 Value	**Loads Guitar Cab Model:**	**Loads Bass Cab Models:**	**Bass Cabs Pack Dependency**
0	No Cab	No Cab	Bass Exp.
1	1x6 1960s Super O	1x12 Boutique	Bass Exp.
2	1x8 1960 Tiny Tweed	1x12 Motor City	Bass Exp.
3	1x10 1959 Gibtone	1x15 Flip Top	
4	1x10 1960 G-Brand	1x15 Jazz Tone	Bass Exp.
5	1x12 2001 Line 6	1x15 Session	Bass Exp.
6	1x12 1953 Small Tweed	1X15 Amp 360	Bass Exp.
7	1x12 1964 Blackface 'Lux	1x18 California	Bass Exp.
8	1x12 1960 Class A-15	1x18+12 Stadium	Bass Exp.
9	2x2 2001 Mini T	2x10 Modern UK	Bass Exp.
10	2x12 2001 Line 6	2x15 Doubleshow	
11	2x12 1965 Blackface	2x15 California	Bass Exp.
12	2x12 1996 Match Chief	2x15 Class A	Bass Exp.
13	2x12 1987 Jazz Clean	4x10 Line 6	Bass Exp.
14	2x12 1967 Class A-30	4x10 Tweed	Bass Exp.
15	4x10 2001 Line 6	4x10 Adam and Eve	
16	4x10 1958 Tweed B-Man	4x10 Silvercone	
17	4x12 2001 Line 6	4x10 Session	Bass Exp.
18	4x12 1967 Green 20s	4x12 Hiway	Bass Exp.
19	4x12 1968 Green 25s	4x12 Green 20s	Bass Exp.
20	4x12 1978 Brit Celest T-75s	4x12 Green 25s	Bass Exp.
21	4x12 1996 Brit Celest V-30s	4x15 Big Boy	Bass Exp.
22	4x12 2001 Treadplate	8x10 Classic	
23	1x15 1962 Thunder	-	
24	2x12 1967 Wishbook	-	

GearBox Model Tables

Cabinet Models - Continued		
CC 70 Value loads:	**A.I.R. Mic selections On Guitar Cab**	**A.I.R. Mic selections On Bass Cab**
0	57 On Axis	20 Dynamic
1	57 Off Axis	112 Dynamic
2	421 Dynamic	Tube 47 Close
3	67 Condenser	Tube 47 Far

GearBox Model Tables

Note - When GearBox is in Dual Tone Mode, only Tone 1 receives and responds to incoming MIDI control messages.

Mic PreAmp Models						
Model Name	**CC 13**	**CC 14**	**CC 15**	**CC 16**	**CC 17**	**CC 21**
American Classic	Drive (Input Gain)	Bass. Freq. *	Bass Gain ¹	Bass Shelf/Peak †	(Output) Volume	Treble Shelf/Peak †
Vintage UK	Drive (Input Gain)				(Output) Volume	
Lo-Fi	Drive (Input Gain)				(Output) Volume	
Vintage	Drive (Input Gain)	Bass. Freq. *	Bass Gain ¹	Bass Shelf/Peak †	(Output) Volume	Treble Shelf/Peak †
Modern	Lo Mid Gain	HPF Frequency	Bass Frequency *	Bass Gain	(Output) Volume	Low Mid Freq.
Console	Lo Mid Gain	HPF Frequency	Bass Frequency *	Bass Gain	(Output) Volume	Low Mid Freq.

Mic PreAmp Models - Continued						
Model Name	**CC 92**	**CC 93**	**CC 94**	**CC 95**	**CC 102**	**CC 103**
American Classic	Lo Mid Freq. *	Lo Mid Gain ¹	High Mid Freq. *	High Mid Gain ¹	Treble Freq. *	Treble Gain ¹
Vintage UK	HPF Off/Freq. *	Bass Freq.	Bass Gain	Mid Off/Freq. *	Mid Gain	Hi Shelf Gain
Lo-Fi	HPF Off/Freq. *	Bass Freq./Off	Bass Gain	Mid Off/Freq. *	Mid Gain	Hi Shelf Gain
Vintage	Lo Mid Freq. *	Lo Mid Gain ¹	High Mid Freq. *	High Mid Gain ¹	Treble Freq. *	Treble Gain ¹
Modern		High Mid Gain	High Mid Freq.		Treble Freq. *	Hi Shelf Gain
Console		High Mid Gain	High Mid Freq.		Treble Freq. *	Hi Shelf Gain

* 8-Position Incrementation		¹ 9-Position Incrementation		† 2-Position Incrementation	
CC value	**Position**	**CC value**	**Position**	**CC value**	**Setting**
0 - 7	1	0 - 7	1	0-31	Peak
8 - 23	2	8 - 23	2	32-127	Shelf
24 - 39	3	24 - 39	3		
40 - 55	4	40 - 55	4		
56 - 71	5	56 - 71	5		
72 - 87	6	72 - 87	6		
88 - 103	7	88 - 103	7		
104 - 127	8	104 - 119	8		
		120 - 127	9		

Effects Model Tables

Note - When GearBox is in Dual Tone Mode, only Tone 1 receives and responds to incoming MIDI control messages.

Stomp Category Models								
Page/Position		n/a	n/a in UI	1/C	1/D	n/a	n/a	
	CC #75 Model Select	CC #74 Pre/Post	CC #79 Param 2	CC #80 Param 3	CC#81 Param 4	CC#82 Param 5	CC#83 Param 6	Model Pack Dependency
Facial Fuzz	0	Pre	Drive	Gain	Tone	n/a	n/a	
Fuzz Pi	1	Pre	Drive	Gain	Tone	n/a	n/a	
Screamer	2	Pre	Drive	Gain	Tone	n/a	n/a	
Classic Dist	3	Pre	Drive	Gain	Tone	n/a	n/a	PowerPack
Octave Fuzz	4	Pre	Drive	Gain	Tone	n/a	n/a	PowerPack
Blue Comp	5	Pre	Sustain	Level	n/a	n/a	n/a	PowerPack
Red Comp	6	Pre	Sustain	Level	n/a	n/a	n/a	
Vetta Comp	7	Pre	Sens	Level	n/a	n/a	n/a	PowerPack
Auto Swell	8	Pre	Ramp	Depth	n/a	n/a	n/a	PowerPack
Auto Wah	9	Pre	Sens	Q	n/a	Mid	n/a	FX Junkie
Killer Z	10	Pre	Drive	Contour	Gain	Bass	n/a	FX Junkie
Tube Drive	11	Pre	Drive	Treble	Gain	n/a	n/a	FX Junkie
Vetta Juice	12	Pre	Amount	Level	n/a	Mid	Mid Freq.	FX Junkie
Boost + EQ	13	Pre	Drive	Bass	Treble	n/a	n/a	FX Junkie
Blue Comp Treb	14	Pre	Level	Sustain	n/a	n/a	n/a	FX Junkie
Dingo Tron	15	Pre	n/a	Sensitivity	Q	n/a	n/a	FX Junkie
Clean Sweep	16	Pre	Decay	Sens	Q	Mix	n/a	FX Junkie
Seismik Synth	17	Pre	Wave	n/a	n/a	Mix	n/a	FX Junkie
Double Bass	18	Pre	-1 Octave	-2 Octave	n/a	Mix	n/a	FX Junkie
Buzz Wave	19	Pre	Wave	Filter	Decay	Mix	n/a	FX Junkie
Rez Synth	20	Pre	Wave	Filter	Decay	Mix	n/a	FX Junkie
Saturn 5 Ring Mod	21	Pre	Wave	n/a	n/a	Mix	n/a	FX Junkie
Synth Analog	22	Pre	Wave	Filter	Decay	Mix	n/a	FX Junkie
Synth FX	23	Pre	Wave	Filter	Decay	Mix	n/a	FX Junkie
Synth Harmony	24	Pre	Interval 1	Filter	Wave	Mix	n/a	FX Junkie
Synth Lead	25	Pre	Wave	Filter	Decay	Mix	n/a	FX Junkie
Synth String	26	Pre	Wave	Filter	Attack	n/a	n/a	FX Junkie
Bass Overdrive	27	Pre	Bass	n/a	Drive	Gain	n/a	FX Junkie
Bronze master	28	Pre	Drive	Tone	n/a	Blend	n/a	FX Junkie
Sub Octaves	29	Pre	-1 Octave	-2 Octave	n/a	Mix	n/a	FX Junkie
Bender	30	Pre	Position	Heel	Toe	Mix	n/a	FX Junkie
Female De-Esser	126	Pre	Amount	n/a	n/a	n/a	n/a	FX Junkie*
Male De-Esser	127	Pre	Amount	n/a	n/a	n/a	n/a	FX Junkie*

*Incl. on UX1/UX2/KB37

Effects Model Tables

Note - When GearBox is in Dual Tone Mode, only Tone 1 receives and responds to incoming MIDI control messages.

Modulation Category Models							
Page/Position		n/a	1/C	1/D	2/A	2/B	
	CC #58 Model Select	CC #57 Pre/Post	CC #52 Param 2	CC #56 Vol./Mix	CC #53 Param 3	CC #54 Param 4	Model Pack Dependency
Sine Chorus	0	Pre/Post	Depth	Mix	Bass	Treble	
Analog Chorus	1	Pre/Post	Depth	Mix	Bass	Treble	
Line 6 Flanger	2	Pre/Post	Depth	Mix	n/a	n/a	
Jet Flanger	3	Pre/Post	Depth	Mix	Fdbk	Manual	
Phaser	4	Pre/Post	n/a	Mix	n/a	n/a	
Vibe Phase	5	Pre/Post	Depth	Mix	n/a	n/a	PowerPack
Opto Trem	6	Pre/Post	Wave	Mix	n/a	n/a	
Bias Trem	7	Pre/Post	Wave	Mix	n/a	n/a	PowerPack
Rotarydrum+Horn	8	Pre/Post	n/a	Mix	Tone	n/a	
Rotary drum	9	Pre/Post	n/a	Mix	Tone	n/a	PowerPack
Auto Pan	10	Pre/Post	Depth	Mix	n/a	n/a	PowerPack
Analog Square Chorus	11	Pre/Post	Depth	Mix	Bass	Treble	FX Junkie
Stereo Square Chorus	12	Pre/Post	Depth	Mix	Predelay	Feedback	FX Junkie
Stereo Expo Chorus	13	Pre/Post	Depth	Mix	Predelay	Feedback	FX Junkie
Random Chorus	14	Pre/Post	Depth	Mix	Bass	Treble	FX Junkie
Stereo Square Flange	15	Pre/Post	Depth	Mix	Predelay	Feedback	FX Junkie
Expo Flange	16	Pre/Post	Depth	Mix	Predelay	Feedback	FX Junkie
Lumpy Phase	17	Pre/Post	Depth	Mix	Bass	Treble	FX Junkie
Hi Talk	18	Pre/Post	Depth	Mix	Q	n/a	FX Junkie
Sweeper	19	Pre/Post	Depth	Mix	Q	Frequency	FX Junkie
POD Purple X	20	Pre/Post	Fdbk	Mix	Depth	n/a	FX Junkie
Random S & H	21	Pre/Post	Depth	Mix	Q	n/a	FX Junkie
Tape Eater	22	Pre/Post	Fdbk	Mix	Flut	Dist	FX Junkie
Warble-Matic	23	Pre/Post	Depth	Mix	Q	n/a	FX Junkie

Effects Model Tables

Note - When GearBox is in Dual Tone Mode, only Tone 1 receives and responds to incoming MIDI control messages.

Delay Category Models							
Page/Position		n/a	1/C	1/D	2/A	2/B	
	CC #88 Model Select	CC #87 Pre/Post	CC #33 Param 2	CC #34 Vol./Mix	CC #35 Param 3	CC #85 Param 4	Model Pack Dependency
Analog	0	Pre/Post	Fdbk	Mix	Bass	Treble	PowerPack
Analog w/Mod	1	Pre/Post	Fdbk	Mix	ModSpd	Depth	
Tube Echo	2	Pre/Post	Fdbk	Mix	Flut	Drive	
Multi-Head	3	Pre/Post	Fdbk	Mix	Heads	Flutter	PowerPack
Sweep Echo	4	Pre/Post	Fdbk	Mix	Speed	Depth	PowerPack
Digital	5	Pre/Post	Fdbk	Mix	Bass	Treble	
Stereo	6	Pre/Post	Offst	Mix	Fdbk L	Fdbk R	PowerPack
Ping Pong	7	Pre/Post	Fdbk	Mix	Offst	Spread	PowerPack
Reverse	8	Pre/Post	Fdbk	Mix	n/a	n/a	PowerPack
Echo Platter	9	Pre/Post	Fdbk	Mix	Heads	Flutter	FX Junkie
Tape Echo	10	Pre/Post	Fdbk	Mix	Bass	Treble	FX Junkie
Low Res	11	pre/post	Fdbk	Mix	Tone	Bits	FX Junkie
Phaze Echo	12	pre/post	Fdbk	Mix	Speed	Depth	FX Junkie
Bubble Echo	13	Pre/Post	Fdbk	Mix	Speed	Depth	FX Junkie

Effects Model Tables

Note - When GearBox is in Dual Tone Mode, only Tone 1 receives and responds to incoming MIDI control messages.

Reverb Category Models							
Page/Position		n/a	n/a	n/a	n/a	n/a	
CC#37 Model Select		**CC#41 Pre/Post**	**CC#38 Decay**	**CC#18 Mix**	**CC#39 Tone**	**CC#40 PreDelay**	**Model Pack Dependency**
Lux Spring	0	Pre/Post	Dwell	Mix	Tone	n/a	
Standard Sping	1	Pre/Post	Dwell	Mix	Tone	n/a	PowerPack
King Spring	2	Pre/Post	Dwell	Mix	Tone	n/a	PowerPack
Small Room	3	Pre/Post	Decay	Mix	Tone	PreDelay	
Tiled Room	4	Pre/Post	Decay	Mix	Tone	PreDelay	PowerPack
Brite Room	5	Pre/Post	Decay	Mix	Tone	PreDelay	
Dark Hall	6	Pre/Post	Decay	Mix	Tone	PreDelay	PowerPack
Medium Hall	7	Pre/Post	Decay	Mix	Tone	PreDelay	
Large Hall	8	Pre/Post	Decay	Mix	Tone	PreDelay	PowerPack
Rich Chamber	9	Pre/Post	Decay	Mix	Tone	PreDelay	PowerPack
Chamber	10	Pre/Post	Decay	Mix	Tone	PreDelay	PowerPack
Cavernous	11	Pre/Post	Decay	Mix	Tone	PreDelay	
Slap Plate	12	Pre/Post	Decay	Mix	Tone	PreDelay	
Vintage Plate	13	Pre/Post	Decay	Mix	Tone	PreDelay	PowerPack
Large Plate	14	Pre/Post	Decay	Mix	Tone	PreDelay	PowerPack

Effects Model Tables

Wah Category Models		
Model Select	**CC# 91 Value**	**Model Pack**
Vetta Wah	0	
Fassel	1	PowerPack
Weeper	2	
Chrome	3	PowerPack
Chrome Custom	4	PowerPack
Throaty	5	PowerPack
Colorful	6	PowerPack
Conductor	7	PowerPack