

Lex

rotary

USER MANUAL



strymon®

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Knobs and Switches

Front Panel Controls

MIC

Changes the position of the stereo microphones relative to the cabinet.

front: picks up the sound from the partially covered front of the cabinet

rear: picks up the sound from the open back of the cabinet

SPEED

Controls the rotor speed for the **SLOW** and **FAST** modes, as currently selected by the **SLOW/FAST** footswitch.

HORN LEVEL

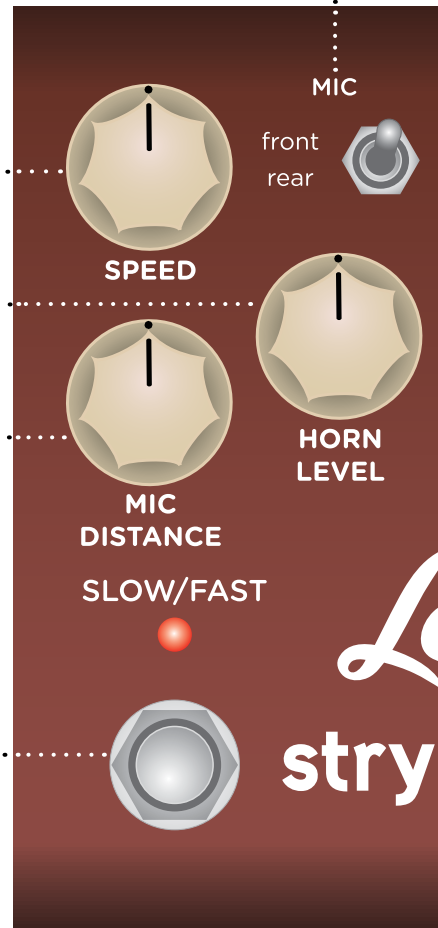
Controls the output level of the high-frequency rotating horn.

MIC DISTANCE

Varies the distance of the stereo mics from the horn rotor and the single mic on the woofer rotor. Turn counter-clockwise for a more pronounced effect. Turn clockwise for more ambience.

SLOW/FAST

Toggles the rotor speed between **SLOW** and **FAST**. The flashing **RED** LED indicates the rate.



NOTE: Hold the **SLOW/FAST** footswitch to engage the brake. Release the footswitch to return to normal operation.

Knobs and Switches

Front Panel Controls

RAMP

Controls how quickly the rotors transition when switching between speeds via the **SLOW/FAST** switch. The rotors accelerate independently, with the low-frequency rotor accelerating more slowly, just like a physical rotating speaker system.



VOLUME

Controls the +/-6dB boost or cut when the pedal is engaged. Unity gain is at the 12 o'clock position.

PREAMP DRIVE

Controls the drive of the rotary cabinet's tube preamp and phase inverter stages. Turn up for a more overdriven cab sound.

DRY

Adds your dry input signal to the effect signal. Dry is off at the minimum setting and blended 50/50 with the effect signal at maximum.

EFFECT ON

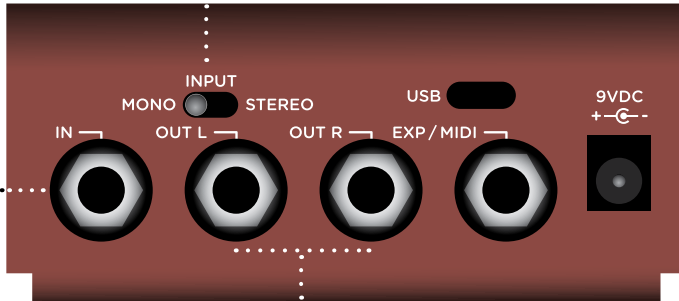
Toggles the effect On (engaged) and Off (bypassed). **RED** LED on indicates that the effect is engaged. Bypass mode is True Bypass by default. (See [page 12](#) for details.)

Rear Panel I/O and Control

AUDIO INPUT SELECTOR

MONO: Use with a mono input signal, such as a guitar. Output is stereo. Use **OUT L** for mono connection.

STEREO: Use with a stereo input signal. Output is stereo.



IN.....

High impedance, ultra low-noise, discrete Class A JFET preamp input. Use a TRS stereo adapter/cable for stereo input.

.....OUTPUTS

Low impedance stereo outputs. Use **OUT L** for mono output.

Rear Panel I/O and Control (cont.)

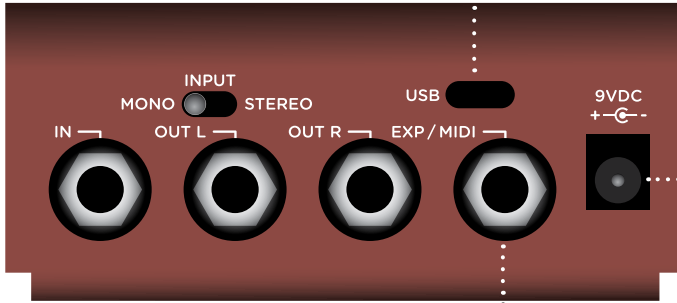
USB

Computer connection for MIDI control as well as for performing firmware updates.

9VDC

Use the included power supply or an adapter with the following rating:

- 9VDC, center negative
- 2.1mm tip
- 300mA minimum



EXP / MIDI

Multifunction communication jack for external control of Lex's features and functions. Can be set to operate in one of the following modes. (See ["Configuring the EXP/MIDI Jack"](#) on page 13 for details.)

Expression Pedal mode (see [page 15](#)).

External Speed Switch mode (see [page 16](#)).

Favorite mode (see [page 17](#)).

Tap mode (see [page 19](#)).

MIDI mode (see ["Configuring MultiSwitch Plus"](#) on page 20 or ["Saving Presets in MIDI Mode"](#) on page 27).

Live Edit Functions

Use the following steps to enter Live Edit mode and access the secondary functions of the controls. Any of the following secondary functions can be edited while in Live Edit mode.

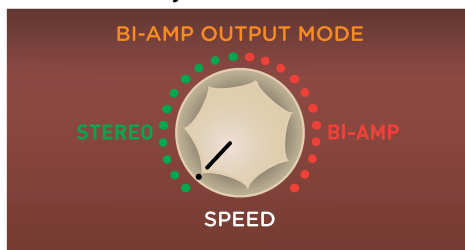
Bi-Amp Output Mode

Allows you to enable Bi-Amp Output mode rather than the default stereo output. When in Bi-Amp Output mode, the Left output is the woofer signal and the Right output is the horn signal.

- 1 Press and hold the **ON** footswitch to enter Live Edit mode. Once both LEDs flash, release the footswitch.



- 2 Turn the **SPEED (BI-AMP)** knob to choose Stereo or Bi-Amp mode. Both LEDs light to indicate your selection:



- Left for Stereo: (**GREEN**, default)
- Right for Bi-Amp: (**RED**)

- 3 Press the **ON** footswitch to exit and store your Bi-Amp setting.

NOTE: The Bi-Amp Output Mode setting is saved per Favorite setting or per MIDI preset.

Live Edit Functions

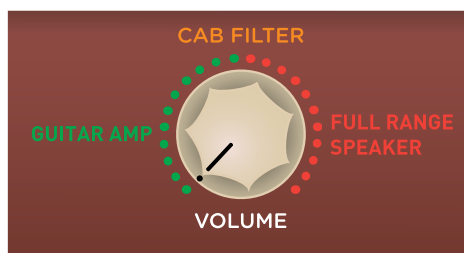
Cab Filter

Optimizes the output signal for use either into the front of a guitar amplifier or a full range speaker system.

- 1 Press and hold the **ON** footswitch to enter Live Edit mode. Once both LEDs flash, release the footswitch.



- 2 Turn **VOLUME (CAB FILTER)** to choose the Cab Filter setting. Both **ON** LEDs light to indicate your selection:



- Left for Guitar Amp (**GREEN**, default)
 - Right for Full Range System (**RED**), such as studio monitors or an FRFR amplifier system. Full range mode is also useful for direct recording.
- 3 Press the **ON** footswitch to exit and store your Cab Filter setting.

NOTE: The Cab Filter setting is saved per Favorite setting or per MIDI preset.

Live Edit Functions

MIDI Clock Sync

Selects whether Lex's Speed will sync to incoming MIDI Clock messages.

- 1 Press and hold the **ON** footswitch. Once both LEDs flash, release the footswitch.



- 2 Set the position of the **RAMP** switch to select whether Lex will sync to incoming MIDI Clock messages. Both LEDs will momentarily change color to indicate the current status as you set the switch.

- Set the switch down to **fast** for **Off** (default): both LEDs light **RED** - Lex will not respond to MIDI Clock.
- Set the switch up to **slow** for **On**: both LEDs light **BLUE** - Lex will respond to MIDI Clock.

NOTE: When synced to MIDI Clock, the LEDs will light **PINK**, and the **SPEED** knob will act as a multiplier or divider of the incoming clock tempo. The synced **SPEED** multi/div settings are: 1/4 (min.), 1/3, 1/2, x1 (at 12 o'clock), x2, x3, x4 (max).

- 3 Press the **ON** footswitch to exit and store your MIDI Clock setting.

NOTE: The MIDI Clock setting is saved per Favorite setting or per MIDI preset.

Live Edit Functions

Respond/Ignore MIDI Expression

When set to MIDI mode, this setting selects whether Lex will respond to MIDI Expression CC# 100 to control the knob settings in the same manner as a TRS Expression pedal.

- 1 Press and hold the **ON** footswitch. Once both LEDs flash, release the footswitch.



- 2 Set the position of the **MIC** switch to select whether Lex will respond to MIDI Expression CC#100. Both LEDs will momentarily change color to indicate the current status as you set the switch.
 - Set the switch up to **front** for **On** (default): both LEDs light **BLUE** - Lex will respond to MIDI Expression.
 - Set the switch down to **rear** for **Off**: both LEDs light **RED** - Deco will not respond to MIDI Expression.
- 3 Press the **ON** footswitch to exit and store your MIDI Expression setting.

NOTE: The MIDI Expression setting is saved per Favorite setting or per MIDI preset.

Power Up Modes

Input Level

Selects the input level that is routed to the effect processing.

- 1 Press and hold the **ON** footswitch while powering up Lex. Once both LEDs flash, release the footswitch.



- 2 Turn the **SPEED** knob to select the Input Level mode. The **SLOW/FAST** LED will change color to indicate the current status as you turn the knob.
 - **Instrument: GREEN** (default) - Input headroom is set for an instrument level source, such as a guitar or bass.
 - **Line: RED** - Input level is set for a line level source, such as a keyboard or synthesizer. 10dB of headroom is added.
- 3 Press either footswitch to store the Input Level setting and begin using Lex.

NOTE: The Input Level setting persists across power cycles and is not saved per preset.

Power Up Modes

Bypass Mode

In addition to the default True Bypass mode, Lex offers Buffered and Digital Bypass mode options for how your instrument's input signal is affected when the **ON** switch disengages the effect.

- 1 Press and hold the **ON** footswitch while powering up Lex. Once both LEDs flash, release the footswitch.



- 2 Turn the **VOLUME** knob to choose between True, Buffered, or Digital Bypass modes. The **ON** LED will change color to indicate the current status as you turn the knob.
 - **True Bypass: GREEN** (default) - Your instrument's signal is passed through the pedal, unaffected by any buffering or DSP processing.
 - **Buffered Bypass: RED** - An analog buffer is applied to your instrument's bypass signal, which preserves its high frequency response through your pedal chain and long cable runs.
 - **Digital Bypass: BLUE** - Your instrument's bypass signal is routed through the DSP for perfectly seamless transitions when engaging and disengaging the effect.
- 3 Press either footswitch to store the Bypass Mode and begin using Lex.

NOTE: The Bypass mode setting persists across power cycles and is not saved per preset.

Power Up Modes

Configuring the EXP/MIDI Jack

- 1 Press and hold the **SLOW/FAST** footswitch while powering up Lex. Once both LEDs flash, release the footswitch.



- 2 Turn the **VOLUME (EXP/MIDI JACK)** knob to select the function of the rear panel's EXP/MIDI jack. The **ON** LED will change color to indicate the current status as you turn the knob.
 - **Expression Pedal mode: GREEN** (default) - Allows continuous control over any of the knobs in any direction with a standard TRS expression pedal. (See [page 15](#) for details.)
 - **External Speed Switch mode: PURPLE** - Allows you to toggle between fast and slow rotor speeds with a Strymon MiniSwitch. (See [page 16](#) for details.)
 - **Favorite mode: AMBER** - Allows you to recall a Favorite setting using a Strymon MiniSwitch. (See [page 17](#) for details.)
 - **Tap mode: RED** - Allows you to control Lex's **SPEED** option using a Strymon MiniSwitch. (See [page 19](#) for details.)
 - **MIDI mode: BLUE** - Allows for the selection of three presets using a Strymon MultiSwitch Plus. Full MIDI functionality is available by sending MIDI Program Change messages via 1/4" MIDI connection using a Strymon Conduit or MIDI EXP cable. Up to 300 preset locations are available via MIDI. (See ["Configuring MultiSwitch Plus" on page 20](#) or ["Saving Presets in MIDI Mode" on page 27.](#))

Configuring the EXP/MIDI Jack (cont.)



- 3 Press **either** footswitch to store the EXP/MIDI jack mode and begin using Lex.

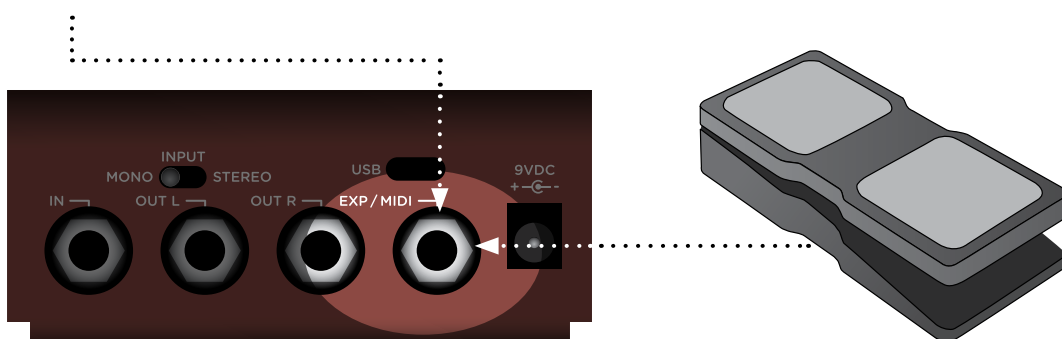
NOTE: The EXP/MIDI jack mode setting persists across power cycles and is not saved per preset.

External Control

Expression Pedal Setup

Use a TRS expression pedal to control the knobs of Lex.

- 1 Configure the **EXP/MIDI** jack for Expression mode. See [page 13](#) for configuration instructions.
- 2 Connect an expression pedal to the **EXP/MIDI** jack of Lex using a TRS cable.



- 3 Press and hold both footswitches until both LEDs blink **GREEN**.
- 4 Rock the expression pedal to the **HEEL** position. Only the **SLOW/FAST** LED will blink **GREEN**.
- 5 Set the knob(s) you would like to control to the desired settings for the **HEEL** position of the expression pedal. Only the **SLOW/FAST** LED will turn **RED**.
- 6 Rock the expression pedal to the **TOE** position. Only the **ON** LED will blink **GREEN**.
- 7 Set the knob(s) you would like to control to the desired settings for the **TOE** position of the expression pedal. Only the **ON** LED will turn **RED**.
- 8 Press either footswitch to exit and store your expression pedal setup.

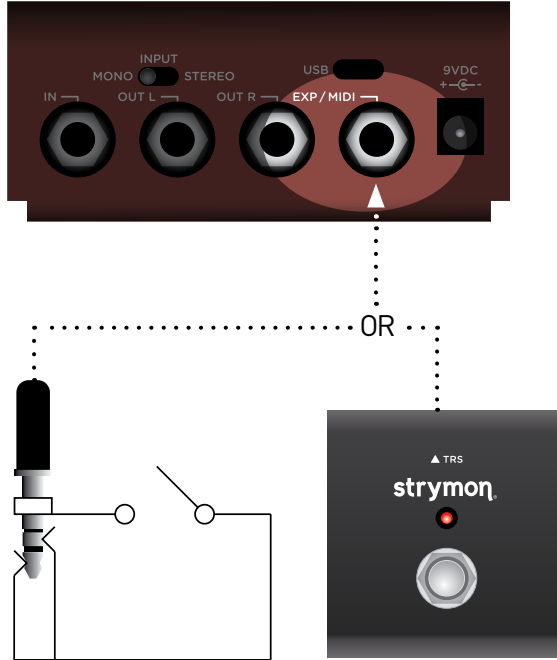
NOTE: Your expression pedal assignment is saved per Favorite setting or per preset.

NOTE: If Lex is set to respond to **MIDI EXPRESSION** and the **EXP/MIDI** jack is set to **MIDI** mode, you can send MIDI CC# 100 with values 0 (heel) to 127 (toe) to perform the expression pedal setup.

External Control

External Speed Switch Mode

Connect a MiniSwitch or other external latching footswitch with a TRS cable to toggle between the fast and slow speeds.

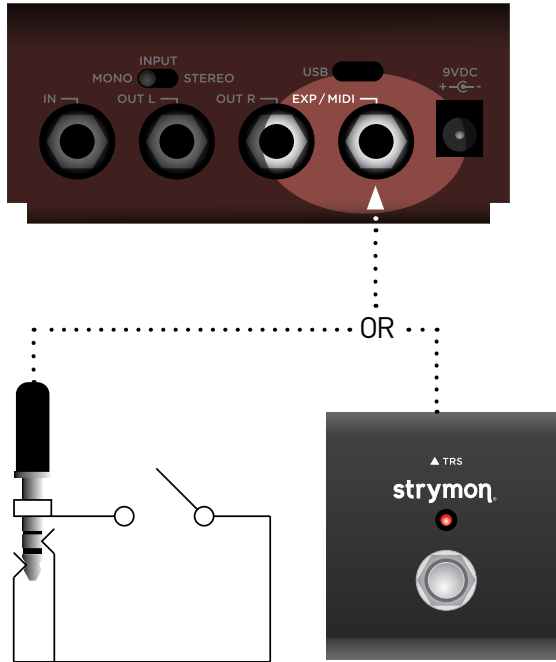


- 1 Configure the **EXP/MIDI** jack for External Speed Switch Mode. (See [page 13](#) for more info.)
- 2 Connect an external switch with a TRS cable to the **EXP/MIDI** jack.
- 3 Press to toggle between the fast and slow rotor speeds.

External Control

Favorite Switch Setup and Compare Mode

Connect a MiniSwitch or other external latching footswitch with a TRS cable to store and recall your favorite setting.



- 1 Configure the **EXP/MIDI** jack for Favorite mode. (See [page 13](#) for details.)
- 2 Connect an external switch with a TRS cable to the **EXP/MIDI** jack.
- 3 Dial in your desired sound.
- 4 To save your sound as the new Favorite setting, press and hold both footswitches until they blink **GREEN**. Then, press and hold the **SLOW/FAST** footswitch until the **SLOW/FAST** LED momentarily flashes **BLUE** to save the Favorite setting.

Step on the external footswitch to toggle between your Favorite setting and the current setting on Lex.

Favorite Switch Setup and Compare Mode (cont.)

Compare Mode

With the Favorite or MIDI preset recalled, as a knob or switch is adjusted, both LEDs flash **GREEN** when the current knob or toggle switch position matches the setting of the preset.

NOTE: Along with the knobs and toggle switches on the face of the pedal, all Live Edit settings and Lex's bypass state are stored with the Favorite and MIDI presets. Power Up modes are not stored with the presets.

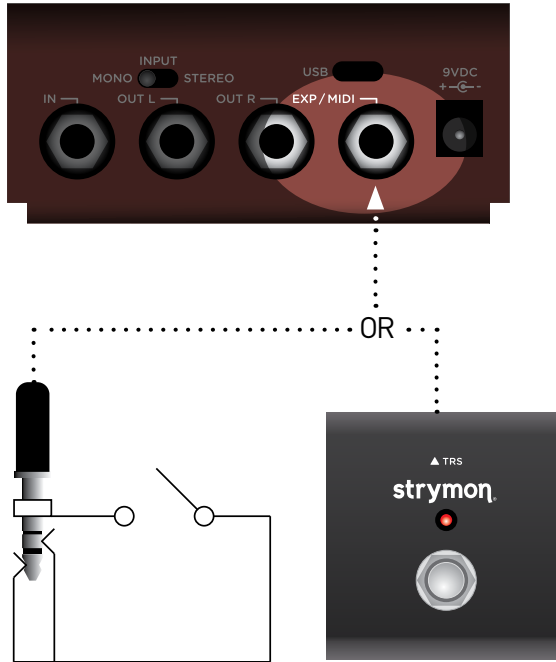
NOTE: Saving presets works differently when using MIDI. (See [page 22](#) for details.)

NOTE: The Favorite setting is stored at MIDI Program Change location 0.

External Control

Tap Mode

Connect a MiniSwitch or other external momentary footswitch with a TRS cable to tap in the speed of the rotating speaker.



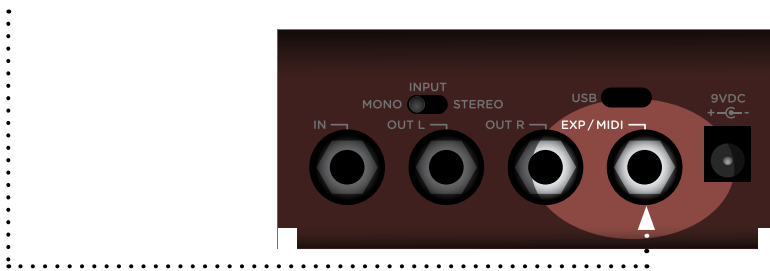
- 1 Configure the **EXP/MIDI** jack for Tap mode. (See [page 13](#) for more info.)
- 2 Connect an external switch with a TRS cable to the **EXP/MIDI** jack.
- 3 Tap in a tempo in quarter notes to set the desired speed of the rotating speaker.

External Control

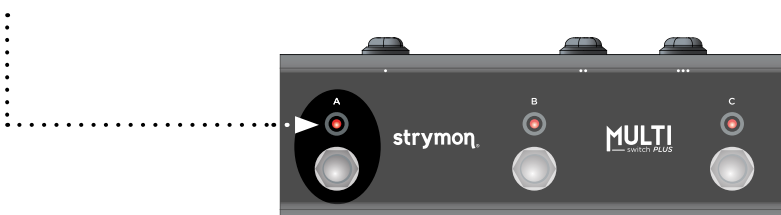
Configuring MultiSwitch Plus

Configure Lex and MultiSwitch Plus for remote access to three additional presets.

- 1 Press and hold the **SLOW/FAST** footswitch while connecting power to the pedal. Hold until both LEDs stop blinking.
- 2 Turn the **SPEED** knob all the way counter-clockwise to set the MIDI channel to Channel 1. The **SLOW/FAST** LED should be **GREEN**.
- 3 Turn the **HORN LEVEL** knob to select any of the following options (both LEDs will show the following indicated colors):
 - Send MIDI CC, PC, and Other Data: **WHITE**
 - Send MIDI CC and Other Data: **GREEN**
 - Send MIDI PC and Other Data: **PURPLE**
 - Send Other Data: **AMBER**
- 4 Turn the **VOLUME** knob all the way clockwise to set the **EXP/MIDI** jack to MIDI mode. The **ON** LED should be **BLUE**.
- 5 Press either footswitch to exit and store the **MIDI Channel**, the **MIDI OUT** setting, and the **EXP/MIDI** jack mode.
- 6 Connect a TRS cable to Lex's **EXP/MIDI** jack.



- 7 Press and hold the **A** footswitch on MultiSwitch Plus while connecting the TRS cable to MultiSwitch Plus to select Preset mode on MultiSwitch Plus.



External Control

Using MultiSwitch Plus

Selecting and saving Lex presets using MultiSwitch Plus.



NOTE: Footswitches A, B, and C on MultiSwitch Plus correspond to MIDI Program Changes 1, 2, and 3.

- 1 Step on a switch that is not illuminated to recall the corresponding preset.
- 2 Step on an illuminated switch to bypass Lex.

Saving Lex Presets with MultiSwitch Plus:

- 1 Dial in the sound that you would like to save as your preset on Lex.
- 2 Press and hold both footswitches on Lex until both the LEDs blink **GREEN**.
- 3 Press the A, B, or C footswitch on MultiSwitch Plus to save the current state of the pedal to the desired location.

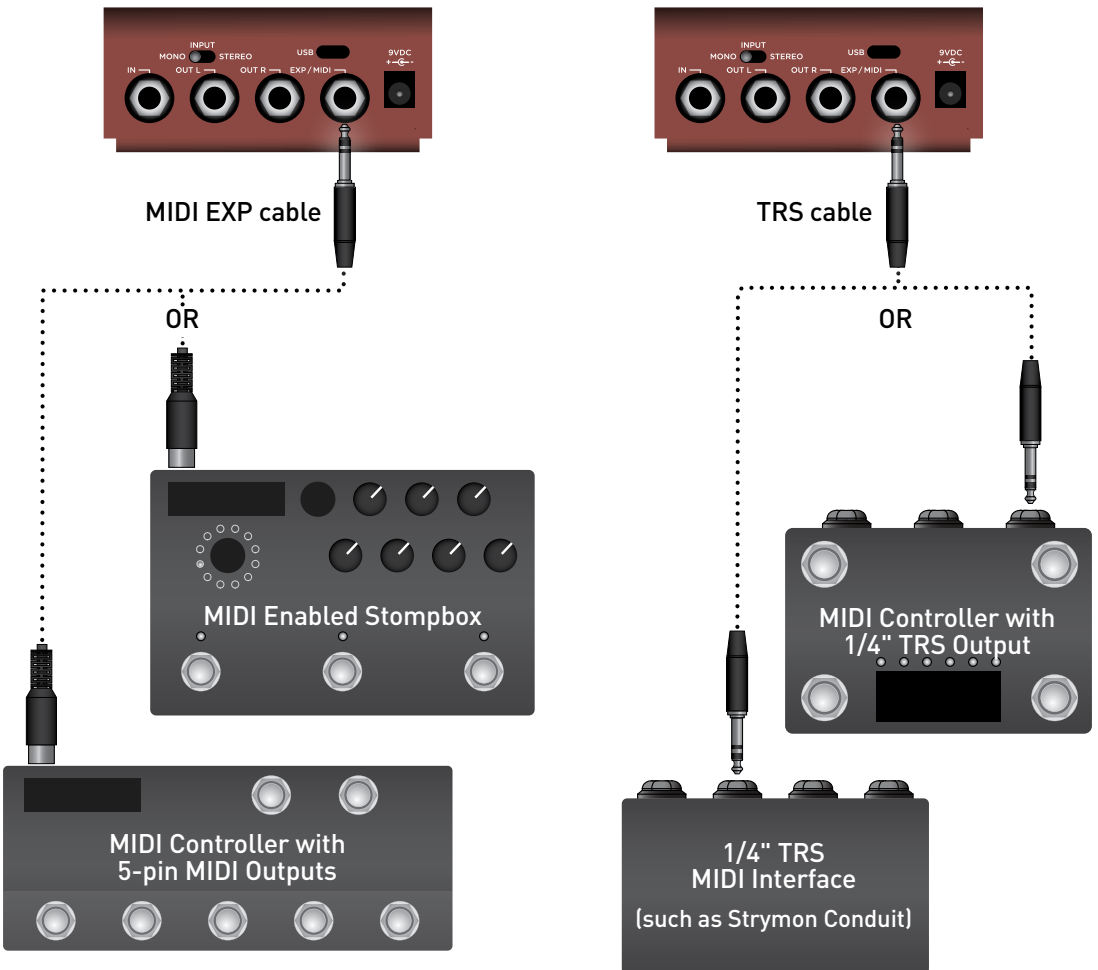
MIDI Functionality

Configuring Lex to Use MIDI

Using MIDI unlocks a set of tools that can be used to load any of Lex's 300 preset locations using a suitable MIDI controller or interface connected to the Lex EXP/MIDI jack. This requires a Strymon MIDI EXP cable or a MIDI controller/interface, such as Strymon Conduit, with at least one quarter-inch output.

NOTE: When using a Strymon MIDI EXP Cable, the MIDI OUT mode must be set to Off. (See [page 26](#) for details.)

Please see strymon.net/support/lex-v2 for a list of compatible devices.



Configuring Lex to Use MIDI (cont.)

STEP 1 – SET EXP/MIDI JACK TO MIDI MODE

- 1 Press and hold the **SLOW/FAST** footswitch while connecting power to the pedal. Once both LEDs flash, release the footswitch.



- 2 Turn the **VOLUME** knob clockwise until the **ON** LED is **BLUE**.

Configuring Lex to Use MIDI (cont.)

STEP 2 – SET MIDI CHANNEL



3 Turn the **SPEED** knob to set the MIDI communication channel. The **SLOW/FAST** LED indicates status. Your **SPEED** knob selections are as follows:

- Channel 1: **GREEN** (default)
- Channel 2: **AMBER**
- Channel 3: **RED**
- Channel 4-16: **BLUE** (set by next received MIDI Program Change message, requires 1/4" MIDI connection)

Once the **SLOW/FAST** LED turns **BLUE**, it will blink until the pedal receives a MIDI Program Change message. Once a message is received, the pedal will be set to the MIDI channel that carried the message and exit the power-up mode to allow you to begin using Lex.

STEP 2 – SET MIDI CHANNEL (CONT.)



- 4 Press **either** footswitch to exit and store your MIDI Channel setting and begin using Lex.

NOTE: A simple way to check that communication is working is to send CC #102 with a value of 127 when the **ON** footswitch is off. This will enable the **ON** footswitch if MIDI is properly connected and configured.

NOTE: If you are only sending data to Lex using the Strymon MIDI EXP Cable, the MIDI OUT mode must be set to **OFF**. (See [page 26](#) for details on configuring the MIDI OUT mode.)

NOTE: MIDI Channel assignment is not saved per Favorite setting or MIDI preset.

Configuring Lex to Use MIDI (cont.)

STEP 3 – SET MIDI OUT MODE

- 1 Press and hold the **SLOW/FAST** footswitch while connecting power to the pedal. Once both LEDs flash, release the footswitch.



- 2 Turn the **HORN LEVEL** knob to select what kind of MIDI data is sent from Lex to other MIDI devices. Both LEDs will flash momentarily to indicate status.
 - **OFF: RED** (default) - No MIDI messages are sent out of Lex.
 - **THRU: BLUE** - Incoming MIDI messages are sent to the MIDI Out without any additional MIDI messages generated by Lex.
 - **SEND CC PC OTHER: WHITE** - MIDI CC, PC, and SysEx messages generated by Lex are all sent to the MIDI Out.
 - **SEND CC OTHER: GREEN** - MIDI CC and SysEx messages generated by Lex are sent to the MIDI Out.
 - **SEND PC OTHER: PURPLE** - MIDI PC and SysEx messages generated by Lex are sent to the MIDI Out.
 - **SEND OTHER: AMBER** - SysEx messages generated by Lex are sent to the MIDI Out.
- 3 Press either footswitch to store the MIDI OUT mode and exit.

MIDI Functionality (cont.)

Saving Presets in MIDI Mode

When in MIDI mode, the currently loaded settings can be saved to any of Lex's 300 preset locations at any time.

- 1 To enter Save mode, press and hold **BOTH** footswitches. Both LEDs will blink **GREEN** to indicate that Lex is waiting to receive a MIDI Program Change message.



- 2 To save the current state of the pedal to the currently loaded preset location, press and hold the **SLOW/FAST** footswitch until the LED lights **BLUE**.



To save the current state of the pedal to any preset location, send the unit a MIDI Program Change on Lex's currently selected MIDI channel. For example:

- Send MIDI Program Change #10 to save the preset to the corresponding memory location on the pedal.
- To recall this preset, send MIDI Program Change #10 from your MIDI controller or sequencer.

NOTE: Press the **ON** footswitch to cancel the save operation.

MIDI Specifications

MIDI Program Changes

Lex contains 300 preset locations, numbered sequentially from 0-299. Because MIDI Program Change messages have a maximum number of 128 (0-127), the presets are grouped into three MIDI patch banks.

MIDI BANK 0 = PRESETS 0-127

MIDI BANK 1 = PRESETS 128-255

MIDI BANK 2 = PRESETS 256-299

- 0** Favorite setting (accessible via MiniSwitch)
See [page 17](#) for details.
- 1** MultiSwitch Plus - footswitch 1
- 2** MultiSwitch Plus - footswitch 2
- 3** MultiSwitch Plus - footswitch 3
- 127** Manual mode (“knobs”)

NOTE: Some MIDI applications and controllers start with MIDI Program Change 1 instead of 0. In these setups, add one to each MIDI Program Change location above.

Lex always powers up in MIDI Patch Bank 0, so if you plan to stay within the first 127 preset locations, simply send a standard MIDI Program Change message to load a preset.

If you will be using MIDI Banks 1 and/or 2, it is advisable to send a standard MIDI Bank Change message (MIDI CC# 0 with a value equal to the MIDI Bank#) before each MIDI Program Change.

Selecting bank 0, patch 127 will put Lex into Manual mode. In this mode, the pedal will be set to the current knob and switch settings. No preset data can be stored at this preset location.

MIDI Specifications (cont.)

MIDI CCs

CC#	PARAMETER	RANGE	VALUE
0	Bank Select	0-2	(0=Bank 1, 1=Bank 2, 2=Bank 3)
11	Mic	1-2	(1=front, 2=rear)
12	Speed	0-127	
13	Speed (Full Range)	0-127	
14	Mic Distance	0-127	
15	Horn Level	0-127	
16	Ramp	1-3	(1=slow, 2=med, 3=fast)
17	Volume	0-127	
18	Dry	0-127	
19	Preamplifier Drive	0-127	
20	Bi-Amp Output Mode	0-1	(0=stereo, 1=bi-amp)
21	Cab Filter	0-1	(0=guitar amp, 1=full range)
22	Slow/Fast Toggle	0, 127	(0=slow, 1-127=fast)
23	Slow Speed	0-127	
24	Fast Speed	0-127	
25	MIDI Clock Tempo Mult/Div	0-6	(0=x4, 1=x3, 2=x2, 3=x1, 4=1/2, 5=1/3, 6=1/4)
60	MIDI Expression Off/On	0, 127	(0=off, 1-127=on)
63	MIDI Clock Off/On	0, 127	(0=off, 1-127=on)
93	Remote Tap	Any	
97	Brake	0,127	(0=release, 1-127=hold)
100	Expression Pedal	0-127	(0=heel, 127=toe)
102	Bypass/On	0,127	(0=bypass, 1-127=on)

NOTE: All on/off parameters are implemented with 0=off and any other value (1-127)=on. They are documented as "0" and "127" because many MIDI controllers send out 0 and 127 for on/off switches.

NOTE: Some MIDI applications and controllers start their MIDI enumeration with 1 instead of 0. In these setups, add one to each CC and Range value set.

Factory Reset

Performing a Factory Reset restores the pedal to its factory default Power-up modes and secondary functions, and replaces all stored pre-sets with their factory default settings.

- 1 Press and hold the **ON** footswitch while connecting power to the pedal. Once both LEDs flash, release the footswitch.



- 2 Sweep the **MIC DISTANCE** knob from 0-100% and back two times. The **SLOW/FAST** LED will change colors at the extremes of the knob range and blink **RED** to indicate when the reset is taking place.
 - TURN 1: **AMBER**
 - TURN 2: **RED**
 - TURN 3: **AMBER**
 - TURN 4: Both LEDs flash **RED**, Lex resets and restarts.

Factory Reset (cont.)

Factory Default Settings

SETTING	DEFAULT VALUE
EXP/MIDI Jack:	Assigned to Expression mode and configured to control the SPEED knob
Input Level:	Instrument
Bypass Mode:	True Bypass
MIDI Channel:	1
MIDI OUT Mode:	Off
MIDI Clock Sync:	Off
MIDI Expression:	On
Live Edit, Secondary Functions:	BI-AMP OUTPUT MODE = 0% (Stereo) CAB FILTER = 0% (Guitar Amp)



Default Live Edit Settings

Features

- Hand crafted rotary algorithms for meticulous and nuanced recreations of rotary speaker systems
- Selectable mic orientation (front or rear cabinet)
- Fast and slow rotary speeds with independent horn and drum acceleration times
- Two Live Edit, secondary parameters: Bi-Amp and Guitar Amp/Full Range Speaker Output Modes
- Remote switching of SLOW / FAST speeds with a Strymon MiniSwitch, with BRAKE feature
- True Bypass (electromechanical relay switching), with options for Buffered or Digital Bypass
- Ultra low noise, high performance A/D and D/A converters
- +10dBu maximum input level easily handles instrument and line signals
- Expression pedal input allows the connection of a TRS expression pedal, Strymon MiniSwitch, MultiSwitch Plus, or TRS MIDI connection
- Full featured MIDI, accessible via TRS, supporting MIDI CCs, MIDI clock sync, access to 300 preset locations (requires Strymon MIDI EXP cable or MIDI > TRS interface such as Strymon Conduit)
- USB-C jack for controlling via MIDI from a computer or for performing potential future firmware updates
- High performance 520MHz ARM Superscalar processor
- 32-bit floating point processing
- Stereo input (requires TRS adapter cable) and stereo output
- High impedance ultra-low noise discrete Class A JFET preamp inputs
- Low impedance stereo outputs
- Strong and lightweight anodized aluminum chassis
- Designed and built in the USA

Specifications

Input Impedance:	1 Meg Ohm
Output Impedance:	100 Ohm
A/D & D/A:	24-bit 96kHz
Max Input Level	+10 dBu
Signal/Noise	109 dB typical
Bypass Switching	True Bypass (electromechanical relay switching)
Dimensions	4.5" deep x 4" wide x 1.75" tall

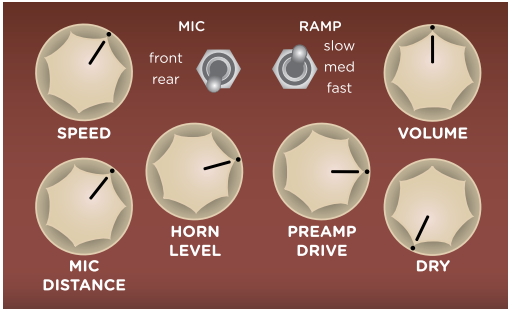
Power Adapter Requirements

Use an adapter with the following rating: 9VDC, center negative, 2.1mm tip, 300mA minimum.

Appendix 1: Sample Settings

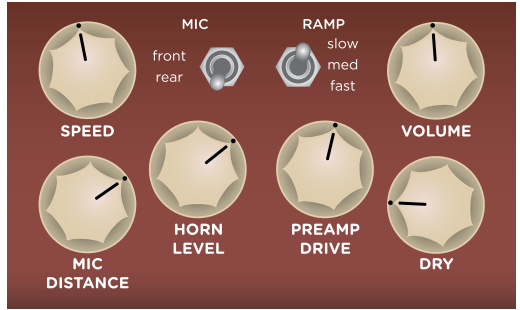
Sample Settings

ALMOST PINKISH



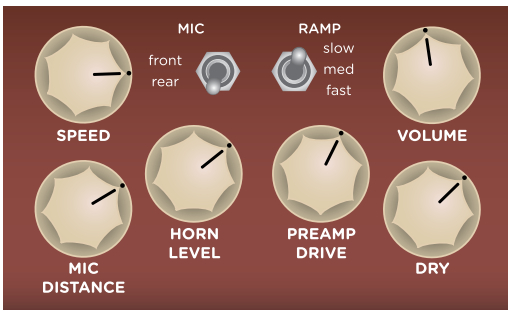
Rotor Speed: Slow
 MIDI Program Change 0
 MiniSwitch Favorite

ROOTSY BE THREE



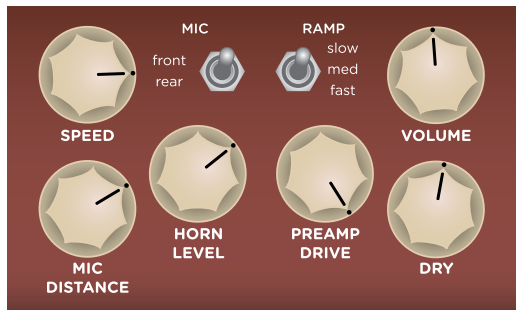
Rotor Speed: Fast
 MIDI Program Change 1
 MultiSwitch Plus A

LAZY RIVER



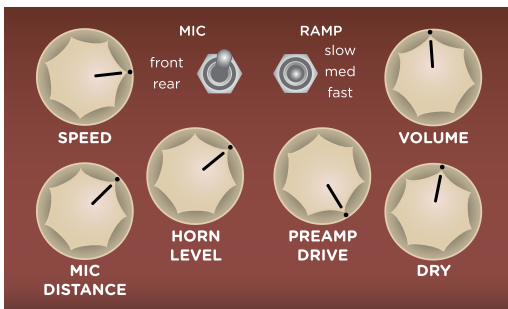
Rotor Speed: Slow
 MIDI Program Change 2
 MultiSwitch Plus B

SLOW SWIRLY CHORUS



Rotor Speed: Slow
 MIDI Program Change 3
 MultiSwitch Plus C

SHOT OF ESPRESSO



Rotor Speed: Fast
 MIDI Program Change 4

LIVE EDIT FUNCTIONS

Lex provides a way to adjust additional parameters that do not have a dedicated knob or switch. These are called **LIVE EDIT** functions and are covered in detail starting on [page 7](#). The sample settings on this page use the factory default values for these functions.

Appendix 2: Power Up Modes Quick Reference

Power Up Modes Quick Reference

Global parameters and functions can be accessed via a power up procedure. All power up functions persist through power cycles.

General Options

- 1 Press and hold the **ON** footswitch while powering up Lex. Once both LEDs flash, release the footswitch.
- 2 Adjust the desired functions with the knobs and buttons noted below.
- 3 Press either footswitch to store your changes and exit power up mode.

INPUT LEVEL See page 11 for an illustrated description.	Turn SPEED knob - status shown with SLOW/FAST LED <ul style="list-style-type: none"> • Instrument: GREEN (default) • Line: RED
BYPASS MODE See page 12 for an illustrated description.	Turn VOLUME knob - status shown with ON LED <ul style="list-style-type: none"> • True Bypass: GREEN (default) • Buffered Bypass: RED • Digital Bypass: BLUE
FACTORY RESET See page 30 for an illustrated description.	Turn MIC DISTANCE knob from 0% to 100% and back two times - status shown on both LEDs

Power Up Modes Quick Reference (cont.)

Global parameters and functions can be accessed via a power up procedure. All power up functions persist through power cycles.

MIDI & Jack Options

- 1 Press and hold the **SLOW/FAST** footswitch while powering up Lex. Once both LEDs flash, release the footswitch.
- 2 Adjust the desired functions with the knobs and buttons noted below.
- 3 Press either footswitch to store your changes and exit power up mode.

EXP/MIDI JACK Turn **VOLUME** knob—status shown with **ON** LED

MODE

See [page 13](#) for an illustrated description.

- Expression: **GREEN** (default)
- External Speed Switch: **PURPLE**
- Favorite: **AMBER**
- Tap: **RED**
- MIDI: **BLUE**

MIDI CHANNEL Turn **SPEED** knob—status shown on **SLOW/FAST** LED

See [page 24](#) for an illustrated description.

- 1: **GREEN** (default)
- 2: **AMBER**
- 3: **RED**
- 4-16: **BLUE** (channel set by next MIDI Program message)

MIDI OUT MODE Turn **HORN LEVEL** knob—status shown momentarily on both LEDs

See [page 26](#) for an illustrated description.

- OFF: **RED** (default)
- THRU: **BLUE**
- ON CC PC OTHER: **WHITE**
- ON CC OTHER: **GREEN**
- ON PC OTHER: **PURPLE**
- ON OTHER: **AMBER**

Appendix 3: Live Edit Controls Quick Reference

Live Edit Controls Quick Reference

Lex provides a way to adjust several secondary functions that are available on several knobs (also, see [“Live Edit Functions” on page 7](#)).

Live Edit Functions are saved per preset.

- 1 Press and hold the **ON** footswitch until both LEDs blink to enter Live Edit mode.
- 2 Release the footswitch and use the knobs as described below.
- 3 Press **ON** footswitch to store your setting and exit Live Edit mode.

BI-AMP OUTPUT MODE See page 7 for an illustrated description.	Turn the SPEED knob—The SLOW/FAST LED changes color from GREEN (left - Stereo, default) to RED (right - Bi-Amp)
CAB FILTER See page 8 for an illustrated description.	Turn the VOLUME knob—the ON LED changes color from GREEN (left - Guitar Amp, default) to RED (right - Full Range Speaker) as the control is adjusted
MIDI CLOCK SYNC See page 9 for an illustrated description.	Set the RAMP switch to the fast (down) or slow (up) position—status is momentarily shown on both LEDs: <ul style="list-style-type: none"> • fast position: OFF, RED (default) • slow position: ON, BLUE
MIDI EXPRESSION See page 10 for an illustrated description.	Set the MIC switch to the front (up) position or rear (down) position—status is momentarily shown on both LEDs: <ul style="list-style-type: none"> • front position: ON, BLUE (default) • rear position: OFF, RED

Strymon Non-Transferable Limited Warranty

Warranty

Strymon warrants the product to be free from defects in material and workmanship for a period of two (2) years from the original date of purchase when bought new from an authorized dealer in the United States of America or Canada. If the product fails within the warranty period, Strymon will repair or, at our discretion, replace the product at no cost to the original purchaser. Please contact your dealer for information on warranty and service outside of the USA and Canada.

Exclusions

This warranty covers defects in manufacturing discovered while using this product as recommended by Strymon. This warranty does not cover loss or theft, nor does the coverage extend to damage caused by misuse, abuse, unauthorized modification, improper storage, lightning, or natural disasters.

Limits of Liability

In the case of malfunction, the purchaser's sole recourse shall be repair or replacement, as described in the preceding paragraphs. Strymon will not be held liable to any party for damages that result from the failure of this product. Damages excluded include, but are not limited to, the following: lost profits, lost savings, damage to other equipment, and incidental or consequential damages arising from the use, or inability to use this product. In no event will Strymon be liable for more than the amount of the purchase price, not to exceed the current retail price of the product. Strymon disclaims any other warranties, expressed or implied. By using the product, the user accepts all terms herein.

How to Obtain Service Under this Warranty

For North American customers: Contact Strymon through our website at strymon.net/support for Return Authorization and information. Proof of original ownership may be required in the form of a purchase receipt.

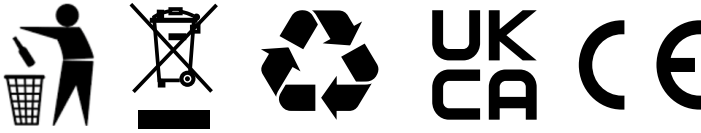
For International Customers: Contact the Strymon dealer from which the product was purchased from in order to arrange warranty repair service.

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Safety and Compliance Information

This equipment has been tested and found to comply with the limits for a class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- 1) Reorient or relocate the receiving antenna.
- 2) Increase the separation between the equipment and receiver.
- 3) Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- 4) Consult the dealer or an experienced radio/TV technician for help.



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