



soundblox® 2

stingray

MULTI-FILTER

USER'S GUIDE

SA224

WELCOME

Thank you for purchasing the Soundblox 2 STINGRAY Multi-Filter. This powerful multi-effects unit features a dynamic collection of meticulously crafted filter effects designed for guitar and other instruments. With complete control over 10 different parameters like MODULATION SOURCE, DEPTH, MIX, TONE, DRIVE and more, this pedal goes far beyond the sonic limitations of other filter or envelope follower effects.

The STINGRAY is housed in a durable, lightweight, cast aluminum Soundblox 2 housing, providing arena-rocking power and flexibility into a compact, easy-to-use stompbox. The STINGRAY is also designed to be controlled by our Hot Hand® Wireless Effect Controllers or the Dual Expression Pedal.

The Quick Start guide will help you with the basics. For more in-depth information about the Soundblox 2 STINGRAY Multi-Filter, move on to the following sections.

Enjoy!

- The Source Audio Team



If possible, dispose of the device at a recycling center. Do not dispose of the device with the household waste.

For full compliance with EN 61000-4-6 standard, input cable must be less than 3 meters in length.

OVERVIEW

DIVERSE SOUND PALLETE: Features up to 24 different Low Pass, Single Peak, Multi-Peak, High Pass, and Phaser effects.

DEEP CONTROL SET: Access to control parameters typically found only on professional rack-mount systems.

DRIVE/DISTORTION: Add gain and distortion to any of the STINGRAY's effects for an added boost and flavor.

STATE-OF-THE-ART DSP: Our proprietary 56-bit Digital Signal Processor, the SA601, and crystal clear 24-bit converters.

COMPACT DESIGN: A compact, rugged, cast-aluminum housing.

UNIVERSAL BYPASS: Select either analog buffered or relay-based True Bypass.

2 USER PRESETS: Easy-to-program user presets recallable via two footswitches.

MULTI-FUNCTION INPUT: A multi-purpose control input for use with Hot Hand, the Source Audio Dual Expression Pedal, or send and receive MIDI information via the Soundblox HUB.

QUICK START

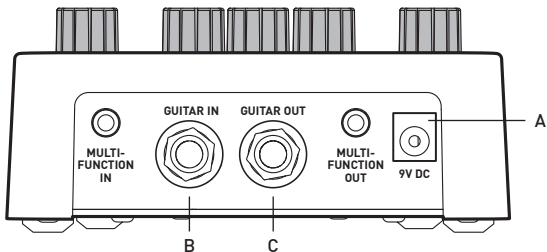
1. POWER

To power the unit, connect the included DC adapter power supply to the 9V jack (A) on the back panel.

Note: Using a non-Source Audio supply could damage the unit. Please be very cautious when using 3rd-party power supplies.

2. GUITAR/AUDIO CONNECTIONS

Using standard ¼" mono cables, plug your guitar, bass, or other instrument into the GUITAR IN (B) jack and from the GUITAR OUT (C) jack to your amp or other audio device.

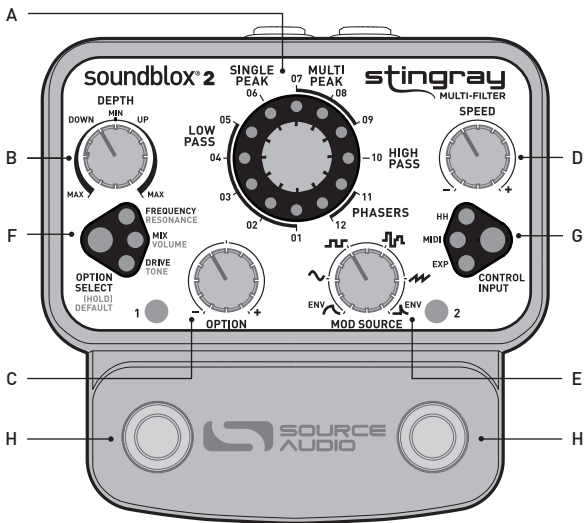


3. BRIEF KNOB, FOOTSWITCH, AND BUTTON DESCRIPTIONS

(see Controls section for more details)

- **EFFECT KNOB (A):** Selects the filter type.
- **DEPTH (B):** Controls the depth of the filter sweep.

- **OPTION (C):** Adjusts the parameter selected by the OPTION SELECT button.
- **SPEED (D):** Adjusts the attack and decay rate of the envelopes, the rate of the LFO (Low Frequency Oscillator), or the “Smoothing” of the Hot Hand.
- **MOD SOURCE (E):** Selects between the envelopes, sine wave LFO, square wave LFO, random sample and hold LFO, and sawtooth wave LFO.
- **OPTION SELECT (F):** Selects which parameter will be controlled by the OPTION knob.
- **CONTROL INPUT (G):** Selects which external controller type will be used.
- **FOOTSWITCHES (H):** Enables/Disables presets. Press and hold either footswitch to save an edited preset.



CONNECTIONS

GUITAR IN (A): Connect to your guitar, bass, or other instrument via a MONO ¼-inch instrument cable.

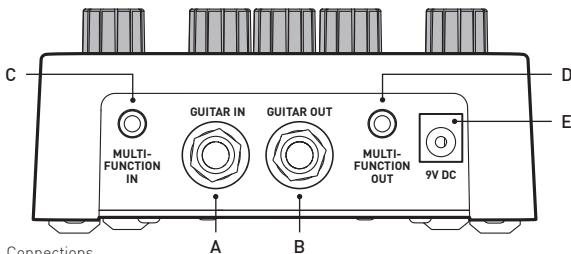
GUITAR OUT (B): Connect to your amp, pedal, or other audio device via a MONO ¼-inch instrument cable.

MULTI-FUNCTION IN (C) (optional): The multi-function input is a flexible control input for use with external controllers. It accepts digital or analog signals, which allows the STINGRAY to interface with the following Source Audio accessories:

- SA115 Hot Hand Wireless Controller
- SA111 Hot Hand Wired Sensor
- SA161 Dual Expression Pedal
- SA164 Source Audio Soundblox HUB – for even more control via standard MIDI, Soundblox Multi-Function ports, USB, and the Dual Expression Pedal.

MULTI-FUNCTION OUT (D) (optional): Use a Source Audio SA160 Daisy-Chain Cable to connect this jack to the sensor/multi-function input of another Soundblox pedal.

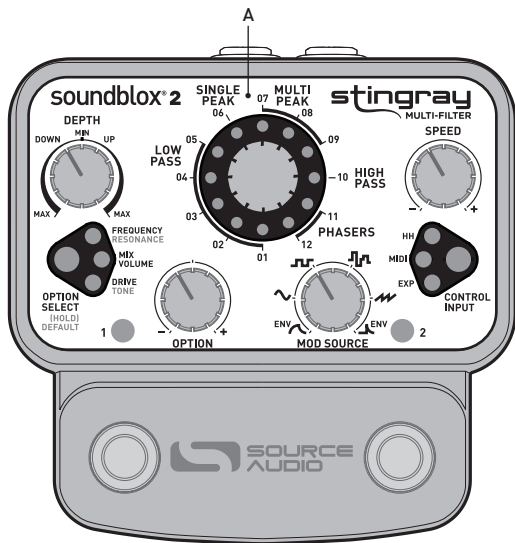
9V DC (E): Connects to the included 9 Volt DC power supply.



CONTROLS: KNOBS

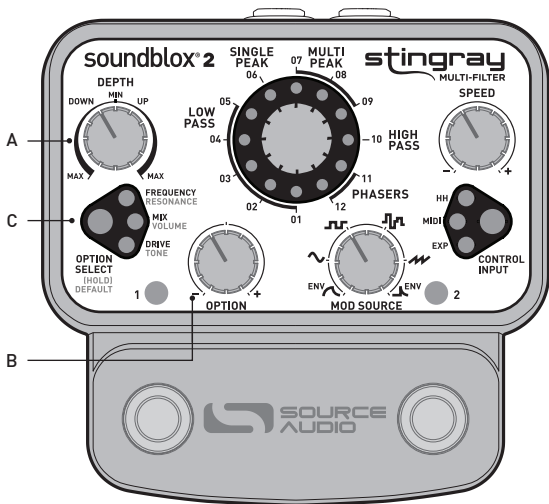
EFFECT (A) (not labeled)

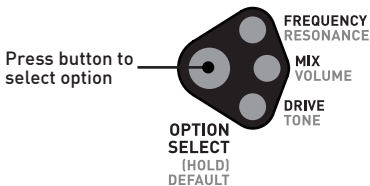
The EFFECT knob selects which effect type will be used. For information on the individual settings, see the Effect Types section.



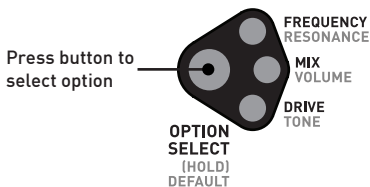
DEPTH Knob (A): The DEPTH knob adjusts the range and direction of the filter sweep.

OPTION Knob (B): The OPTION knob controls six different parameters, each selected by the OPTION SELECT button. Press the OPTION SELECT button (C), located to the left of the OPTION knob, to cycle through all six choices. The selected parameter is indicated by one of three green/red LEDs. Green indicates the upper parameter (white print), and red indicates the lower parameter (yellow print).





- **FREQUENCY (Green LED):** Adjusts the frequency center point of the modulation range of the filter. As the knob is turned from its minimum position (fully counter-clockwise) to its maximum position (fully clockwise), the center point of the frequency range moves from low to high.
- **RESONANCE (Red LED):** Adjusts the width, and sometimes height, of the various peaks and notches in the selected filter's frequency response. As the knob is turned from its minimum position (fully counter-clockwise) to its maximum position (fully clockwise), the resonance setting moves from low to high, adding a more pronounced sound. This control is sometimes referred to as "Q".



- MIX (Green LED):** Adjusts how much of the dry signal (no effect), wet signal (full effect), or wet signal with “LoRETAIN”, are blended together. The 12 o’clock position produces a 100% dry signal. As the knob is turned clockwise from 12 o’clock, the wet signal gradually increases as the dry signal decreases, until reaching a 100% wet signal at the knob’s maximum position (fully clock-wise). As the knob is turned counter-clockwise from the 12 o’clock position, the dry signal decreases as the wet signal with “LoRETAIN” gradually increases, until reaching a 100% wet signal with “LoRETAIN” at the knob’s minimum position (fully counter-clockwise). “LoRETAIN” assures a solid low-end foundation, “LoRETAIN” adds in a considerable amount of the lowest frequencies in the dry signal, so the initial thump and bottom end is preserved even after the filter effects are applied.
- VOLUME (Red LED):** Adjusts the output level of the pedal, ranging from zero output to +6dB. Unity gain (equal volume to the bypass signal) is found roughly at 12 o’clock. Changing RESONANCE or DRIVE may affect the output volume.

- **DRIVE (Green LED):** Adjusts the amount of drive and distortion applied to the wet signal. As the knob is rotated from its minimum position (fully counter-clockwise) to its maximum position (fully clockwise), the amount of distortion applied ranges from no distortion at all, to maximum distortion. The distortion circuit is a soft clipper with an even, smooth distortion characteristic and a warm spectrum at lower DRIVE settings. At higher DRIVE settings, the clipping becomes more aggressive with sharper edges and more harmonics. Distortion is applied before the filter. The pre-distortion signal is used to modulate the filter, which enables more expressive and dynamic control of the filter sweep even when high levels of DRIVE are used.

- **TONE (Red LED):** Adjusts the tone of the wet signal, after the distortion and filter effects. When the knob is at its default (center) position, the tone of the signal is not modified. As the knob is turned clockwise, the tone of the output will become brighter, with higher frequencies being boosted. As the knob is turned counter-clockwise, the tone will become warmer, with the higher frequencies being cut. The dry signal is not affected by the TONE knob.

Factory Defaults:

Given the number of different functions available on the OPTION knob, it can be useful to “zero out” all of the controls to a default value. Source Audio has created default settings for each effect type, which provide a good starting point for dialing in an effect. You can recall these factory default values at any time by pressing and holding the OPTION SELECT button until its three LEDs blink green twice.

MOD SOURCE Knob: When Hot Hand, MIDI, or an expression pedal are not being used, the STINGRAY features 6 different types of modulation control: Slow Attack Envelope Follower, Sine Wave LFO, Square Wave LFO, Random Sample and Hold, Sawtooth Wave LFO, and Fast Attack Envelope Follower. The MOD SOURCE knob controls a gradual blend in between each selection, so setting this knob between two of the modulation graphics will create a sound with features of both modulation forms.

- **Slow Attack Envelope Follower (⤴):** The Envelope Follower produces a control signal based on the volume of your instrument. Varying your playing dynamics will change how this control signal affects the sound. By using the SPEED knob, you can adjust the timing of the Attack and Decay to control the rise and fall of the control signal.

- **Sine Wave LFO (〰):** The Sine Wave LFO produces a very smooth and uniformly moving modulation. Use the Sine Wave LFO for a more traditional chorus or phaser-like effect.

- **Square Wave LFO (⏏):** Unlike the smooth modulation of a Sine Wave, the Square Wave LFO has a blockish sound of extreme peaks and valleys. Use the Square Wave LFO for a dramatic, choppy sounding effect.



- **Random Sample and Hold (⏏):** This modulation source utilizes a randomized staircase waveform that recreates the chaotic filter sounds found in some vintage analog synthesizers.

- **Sawtooth Wave LFO (〰):** The Sawtooth Wave LFO has similarities to both the Sine and Square wave, producing smooth rises to the peak like the Sine wave, but a dramatic drops like the Square Wave.

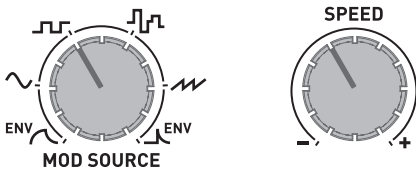
- **Fast Attack Envelope Follower (⤴):** The Attack, or rise of the control signal, is set to a fixed “fast” speed. By using the SPEED knob, you can adjust the timing of the Decay, which is the fall of the control signal.

SPEED Knob: Depending on the modulation source, the SPEED knob controls either the rate of the LFO, the attack and decay times of the envelope followers, or the “Smoothing” of the Hot Hand.

When using the LFO modulation ( ,  ,  , or ), turning the SPEED knob clock-wise will increase the modulation rate.

When using the Slow Attack Envelope Follower (), turning the SPEED knob clock-wise shortens the time of the Attack and the Decay, which is the rise and fall of the control signal. In this setting, the Attack and Decay are set proportionally to each other. When using the Fast Attack Envelope Follower (), turning the SPEED knob clock-wise lengthens the time of the Decay only. The Attack is programmed at a “fast” rate, which matches the fastest setting of the Slow Attack Envelope Follower.

While Hot Hand is engaged, the SPEED knob controls the amount of “Smoothing”. Turning the SPEED knob clock-wise increases the “Smoothing”, and makes Hot Hand less responsive and less jittery sounding.



Discovering Preset Knob Positions

Since the STINGRAY preset values can differ from the physical knob positions, it may be useful to determine the positions of the preset knob values. To start the process, put the pedal in bypass mode and set all the knobs to their full counter-clockwise positions. Next, enable the preset, and slowly turn each knob up one at a time, until the preset indicator LED begins to blink rapidly. This rapid blinking indicates that the current position of the knob matches the saved value.

CONTROLS: FOOTSWITCHES

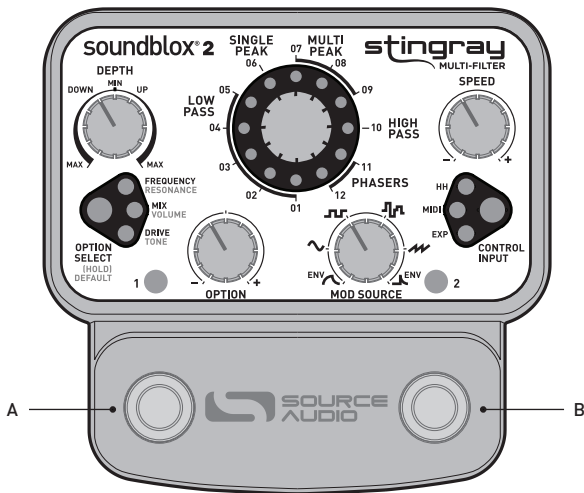
There are two footswitches on the STINGRAY. The left footswitch corresponds to preset 1, and the right footswitch corresponds to preset 2. Pressing either of the footswitches will engage the respective preset. Pressing the same footswitch again puts the pedal back into bypass mode. Pressing the other footswitch engages the other preset without going into bypass. The illumination of the LEDs labeled "1" and "2" indicates which preset is currently enabled. While the pedal is in bypass mode both LEDs remain off.

When a preset is enabled and any sort of adjustment is made, the indicator LED for that preset will begin to blink, showing that the preset has been edited. After a preset has been edited, save it by pressing and holding either footswitch. The corresponding LED will blink quickly to indicate that the preset has been saved. Once changes are saved, the LED will be lit solidly (not blinking). An edited preset can be saved to either of the two preset locations. For example, if preset 1 has been selected and edited, it can be saved to preset location 2 by pressing and holding the right footswitch.

Note: Changes made to a preset will be lost if you go into bypass or switch to another preset without saving.

TAP TEMPO MODE

The STINGRAY's LFO rate can also be adjusted "on-the-fly" via TAP TEMPO. To enter TAP TEMPO mode, put the pedal into bypass, then press and hold the footswitch (A or B), to which you would like TAP TEMPO applied. When the preset LED opposite the footswitch being held starts to blink, the pedal is in TAP TEMPO mode. The footswitch below the blinking LED now controls the LFO rate. Press the footswitch at least two times in rhythm to set a new LFO rate. The LFO rate is reflected in the blinking LED – the time between each blink represents one cycle of the LFO. Follow the same procedure to disengage TAP TEMPO. The footswitch that TAP TEMPO is applied to, is also the preset it is saved to. When recalled, the speed of the TAP TEMPO will default to the last used setting.

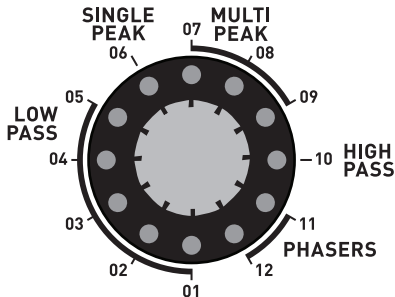


EFFECT TYPES

Filter effects are used to enhance or remove certain frequencies as they modulate your instrument's signal. The STINGRAY features a wide variety of filter types that can create dramatically different sounding effects. In some cases, the STINGRAY combines multiple filter types to create a single filter effect.

By default (Normal Mode), there are 12 filter effects found on the EFFECT SELECTOR knob. This can be expanded to 24 filter effects by using the Extended Mode. This addition allows users to access all of the effect types from our popular Soundblox Bass Envelope Filter, Soundblox Guitar Envelope Filter, Soundblox Poly-Mod Filter Pro, and Soundblox Pro Bass Envelope Filter.

Extended Mode uses the same filter types as Normal Mode but integrates an additional 12 filter effects that are indicated by two adjacent LEDs lit simultaneously on the EFFECT SELECTOR knob.



To access Extended Mode, hold the CONTROL INPUT button while quickly pressing the OPTION SELECT button. You can switch back to Normal Mode by doing the same procedure. Extended Mode is a global setting for the pedal and is not saved per preset.

The filter effects featured in the STINGRAY are further described, followed by the order in which they appear in Normal and Extended Modes.

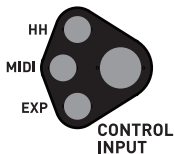
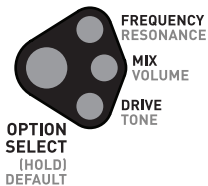
Low Pass Filter: allows only low frequencies to pass through while removing high frequencies from your signal.

High Pass Filter: allows only high frequencies to pass through, while removing low frequencies from your signal.

Band Pass Filter: allows a grouped section of frequencies to pass through, while removing the remainder of the frequency spectrum.

Peak Filter: allows the full frequency spectrum to pass through as it peaks (or boosts) a narrow range of frequencies.

Notch Filter: notches (or removes) frequencies in a narrow range.

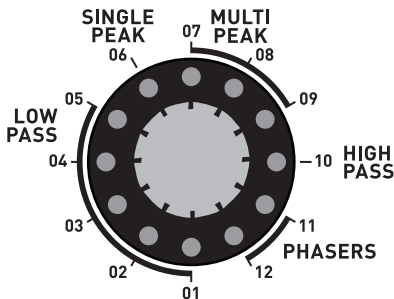


Normal Mode: Single LED lit

- 01. 2-pole low-pass filter
- 02. 4-pole low-pass filter
- 03. Two parallel low-pass filters
- 04. Three parallel low-pass filters
- 05. Notch > low-pass filters
- 06. Peak filter
- 07. Low-pass > two peak filters
- 08. Triple peak filter A
- 09. Triple peak filter B
- 10. High-pass filter
- 11. Phaser - Dual notch
- 12. Phaser - Triple notch

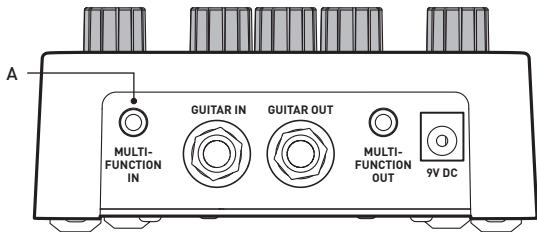
Extended Mode: Dual LEDs lit

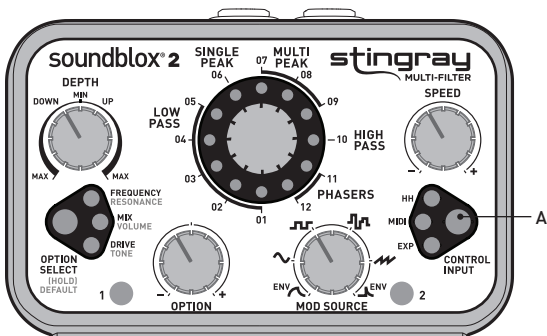
- 01x. 6-pole low-pass filter
- 02x. 4-pole low-pass with offset peaks
- 03x. Peak > 4-pole low-pass filter
- 04x. 4-pole low-pass > peak filter
- 05x. Peak > notch > 2-pole low-pass
- 06x. Band-pass filter
- 07x. Peak > notch > peak filter
- 08x. Notch > peak > notch filter
- 09x. Triple peak filter C
- 10x. Triple peak filter D
- 11x. Single notch filter
- 12x. Dual notch > 2-pole low-pass



EXTERNAL CONTROL

One of the core features of the Soundblox 2 line of effects is the MULTI-FUNCTION Input (A). The MULTI-FUNCTION input is an intelligent control input that accepts both digital and analog control signals. It replaces the SENSOR input on previous Soundblox pedals. The MULTI-FUNCTION input connects to wired or wireless Hot Hand accessories, the Source Audio Expression Pedal, or the Source Audio Soundblox HUB. The Soundblox HUB provides full MIDI I/O, a standard passive expression pedal input, a dedicated Hot Hand input, and USB connectivity. The HUB can connect up to 5 Soundblox 2 pedals together to share control inputs or to save multi-pedal presets via the Scene Saving functionality.





Selecting an external control input:

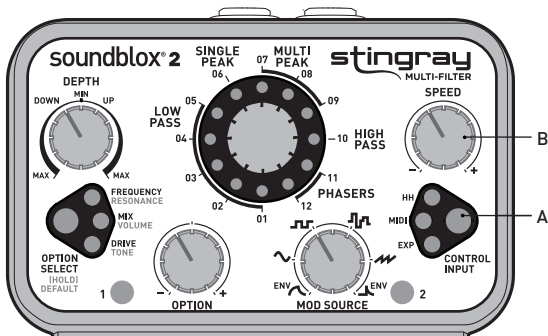
Press the CONTROL INPUT button (A) to cycle between the external control options. There are four possible settings:

- **OFF (no illuminated LEDs):** External control is disabled in this mode and the MOD SOURCE knob remains active.
- **HH:** Hot Hand mode. Select to enable Hot Hand control. In this mode, Hot Hand defaults to controlling filter modulation or is assignable to any knob parameter.
- **MIDI:** MIDI control mode. Select to enable MIDI I/O through the Soundblox HUB.
- **EXP:** Expression Pedal for use with the SA161 Source Audio Dual Expression Pedal. Like HH mode, the expression pedal controls filter modulation, and can also be assigned to control any other knob parameter.

CONTROL ASSIGN

By default, the expression pedal and Hot Hand inputs control the filter modulation. This can be easily changed to control any of the adjustable knob parameters. To assign control to a knob parameter, follow the instructions below:

1. Select the desired external control option: "HH" for Hot Hand, "EXP" for expression pedal.
2. Press and hold the CONTROL INPUT button (A) until the LED begins to blink slowly.
3. Set the low position of the desired knob, for example SPEED (B), to the slowest setting you would like to use.
4. Press the CONTROL INPUT button again, and the LED will now blink more rapidly.



5. Set the desired high position of the knob.
6. Press the CONTROL INPUT button to complete the assignment. The LED will blink three times to indicate the process is complete.

Note: This control assignment can be programmed to a preset. Don't forget to save your settings! Also, each external controller can only be assigned to one parameter. To restore an external controller to modulation, see below.

Restoring control assign mode to modulation

In the event that you have saved a preset with external control assigned to one of the parameter knobs, but wish to return to the default external modulation control, follow the instructions below:

1. Engage the desired preset.
2. Deselect all the external control options with the CONTROL INPUT button (no CONTROL INPUT LEDs should be illuminated).
3. Press and hold the CONTROL INPUT button until all three LEDs blink two times, then release.
4. Select the desired external control option (HH, MIDI, or EXP).
5. Save the preset. The external controller will now control the effect's modulation.

MIDI CONTROL

The STINGRAY can be controlled via generic MIDI messages. To access MIDI functionality, the pedal requires the Source Audio Neuro Hub (sold separately - please check www.sourceaudio.net for availability). The Hub expands your connections to further the control of up to five Soundblox2 or Ones Series pedals. The Hub has 5-pin MIDI DIN In and Out jacks, a USB port, Sensor In (for Hot Hand) and a 1/4" expression input.

Save up to 128 multi pedal presets (or “scenes”) complete with assigned expression control. Easily recall complex presets with a single MIDI program change messages. The Hub also receives MIDI clock or continuous controller (CC) messages.

For more information on using your Soundblox 2 pedals with MIDI, and for MIDI mappings, please visit our website at www.sourceaudio.net

USE WITH HOT HAND

All Soundblox pedals are compatible with our Hot Hand accessories. Hot Hand units consist of a ring containing an accelerometer that detects motion and controls effect parameters. To enable Hot Hand functionality, connect the Hot Hand receiver or base station to the MULTI-FUNCTION IN and select HH mode with the CONTROL INPUT button. The pedal will now accept input signals from Hot Hand. Use these signals to control standard modulation or the assigned parameter.

The STINGRAY can also be calibrated to change the center-point of the Hot Hand control range. To do this, follow the calibration procedure below. Note that calibration is only used for Hot Hand mode and calibration is NOT required before use.

To perform a calibration:

1. Select a preset by pressing a footswitch.
2. Enable Hot Hand control by selecting HH mode with the CONTROL INPUT button.
3. Press and hold the CONTROL INPUT button until the HH red LED begins to blink slowly (note: this is the same as the control assign procedure).
4. Hold the Hot Hand sensor ring at the desired calibration position.
5. Press the footswitch for the currently selected preset.
6. The HH LED will blink when the calibration is complete.

If you have trouble with calibration and need to get back to the default setting, place the sensor ring on a flat, level surface, with the blue LED facing down. Run the calibration procedure again.

UNIVERSAL BYPASS

Most effect pedals offer either true or buffered bypass. All Soundblox 2 pedals offer Universal Bypass, which allows you to select between the two. We recommend that you choose between the STINGRAY's active analog (a.k.a. buffered bypass) and relay-based true bypass (a.k.a. true bypass) based on what is needed in your pedalboard's signal chain. Ideally, the first pedal in a signal chain is a buffered input followed by true bypass in the rest of the signal chain.

By default, the Soundblox 2 STINGRAY Multi-Filter is set to use the relay-based true bypass. To switch the pedal to buffered bypass, press and hold the right footswitch when powering up the pedal. Continue to hold the footswitch until the corresponding LED blinks 3 times. The pedal is now in buffered bypass. To switch back to true bypass, press and hold the left footswitch while powering up the pedal.

Both bypass methods have pros and cons associated with them. Buffered bypass provides consistent input impedance so that if the input is susceptible to variations in input impedance (similar to a guitar pickup), there won't be a noticeable change in tone. True bypass has the benefit of providing a dedicated hardwired bypass signal path; however, it can cause clicks and pops, and typically requires a mechanically complex 3PDT (3-pole, double throw) switches that are not intended for audio signals. Soundblox 2 pedals feature small-signal relays for True Bypass switching that offer reduced pops and clicks and are well suited to audio switching.

SPECIFICATIONS

Dimensions

- L: 4.5 inches
- W: 4.5 inches
- H: 2.25 inches (including knobs)

Weight

- 1.00 lbs

Power

- 140mA @ 9V DC (max 180mA with Hot Hand Wireless Adapter)
- Negative tip power jack

Audio Performance

- Maximum input level: 2.0 Vrms (+6 dBV)
- Input impedance: 1 M Ω m
- Output impedance: 1 k Ω m
- 115dB DNR audio path
- 24-bit audio conversion
- 56-bit digital data path
- Universal Bypass™ (buffered or relay-based true bypass)

TROUBLESHOOTING

General:

Restore Factory Settings	Press and hold CONTROL INPUT button while powering on the pedal until each preset footswitch LED blinks.
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Noise:

Power Source	Ensure that the proper power supply is being used.
Near noise source	Move pedal away from power supplies and other equipment.
Other equipment	Remove other effects from signal chain, see if noise persists.
Bad cables	Swap out audio cables.

Hot Hand doesn't work:

Low power	Ensure that the proper power supply is being used.
Not calibrated properly	Calibrate the Hot Hand — see page 24.
Not connected properly	Check Hot Hand connections.

Unit appears dead/no LEDs lit:

Wrong power supply	Use correct power supply as defined on page 4.
Input plug not connected	Ensure that input cable is connected to the GUITAR input.
Corroded input cable plug	Check input cable plug for corrosion on sleeve, swap out cable if necessary.

LIMITED TRANSFERRABLE WARRANTY

Source Audio, LLC (hereinafter "Source Audio") warrants that your new Source Audio Soundblox 2 STINGRAY Multi-Filter, when purchased at an authorized Source Audio dealer in the United States of America ("USA"), shall be free from defects in materials and workmanship under normal use for a period of two (2) years from the date of purchase by the original purchaser. This Limited Warranty does not extend to the batteries which are purchased as is. Please contact your dealer for information on warranty and service outside of the USA.

Under this Limited Warranty, Source Audio's sole obligation and the purchaser's sole remedy shall be repair, replacement, or upgrade, at Source Audio's sole discretion, of any product that, if properly used and maintained, proves to be defective upon inspection by Source Audio. Source Audio reserves the right to update any unit returned for repair and to change or to improve the design of the product at any time without notice. Source Audio reserves the right to use reconditioned parts and assemblies as warranty replacements for authorized repairs. Any product repaired, replaced, or upgraded pursuant to this Limited Warranty will be warranted for the remainder of the original warranty period.

This Limited Warranty is extended to the original retail purchaser. This Limited Warranty can be transferred to anyone who may subsequently purchase this product provided that such transfer is made within the applicable warranty period and Source Audio is provided with all of the following information: (i) all warranty registration information (as set forth on the registration card) for the new owner, (ii) proof of the transfer, within thirty (30) days of the transfer, and (iii) a photocopy of the original sales receipt. Warranty coverage shall be determined by Source Audio in its sole discretion. This is your sole warranty. Source Audio does not authorize any third party, including any dealer or sales representative, to assume any liability on behalf of Source Audio or to make any warranty on behalf of Source Audio.

WARRANTY INFORMATION

Source Audio may, at its option, require proof of the original purchase date in the form of a dated copy of original authorized dealer's invoice or sales receipt. Service and repairs of Source Audio products are to be performed only at the Source Audio factory or a Source Audio authorized service center. Prior to service or repair under this Limited Warranty, the purchaser must request from Source Audio a return authorization, which is available at:

Source Audio LLC
120 Cummings Park, Woburn, MA 01801
(781) 932-8080 or at www.sourceaudio.net.

Unauthorized service, repair, or modification will void this Limited Warranty.

DISCLAIMER AND LIMITATION OF WARRANTY

DO NOT OPEN THE EFFECTS PEDAL UNDER ANY CIRCUMSTANCE. THIS WILL VOID THE WARRANTY.

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