

AMP SELECTOR PRO

User's Manual

Please register your Voodoo Lab product at voodoolab.com/register

INTRODUCTION

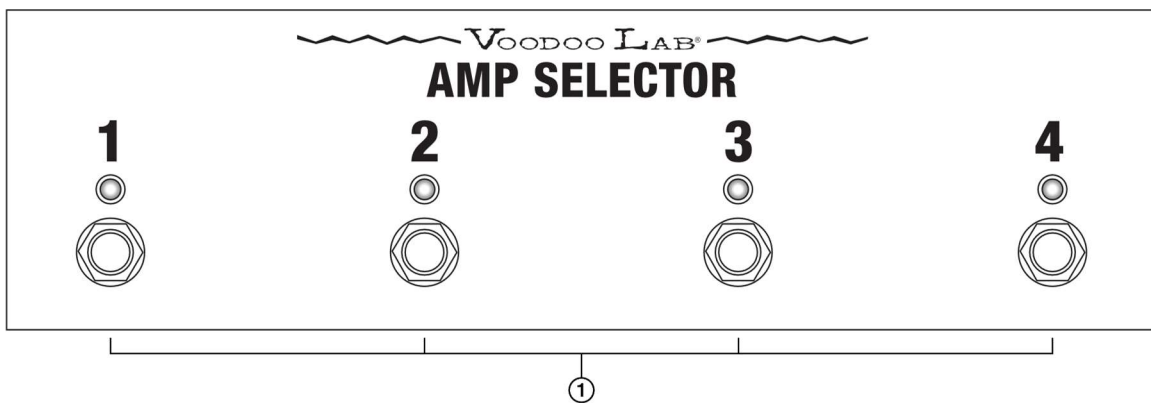
The Voodoo Lab Amp Selector Pro is the ultimate tool for switching your guitar into multiple amplifiers. Designed for pristine tone and zero noise, it uses custom-made isolation transformers featuring permalloy nickel cores to deliver exceptional frequency response and clarity. Ground lifts on each output eliminate the hum that plagues multi-amp setups.

You can run up to four amps simultaneously, split to amps and modelers, and send a clean DI to your DAW for reamping. Independent level and phase controls let you blend mismatched gear instantly. A studio-grade buffer preserves your tone while driving multiple outputs and long cable runs.

Amp Selector Pro offers programmable presets and more via MIDI control. Save your exact routing and recall it instantly on stage or in the studio. Silent switching eliminates pops and clicks, while the Thru output sends your signal to a tuner or recording interface simultaneously. Amp Selector Pro runs on any isolated 9VDC power supply.

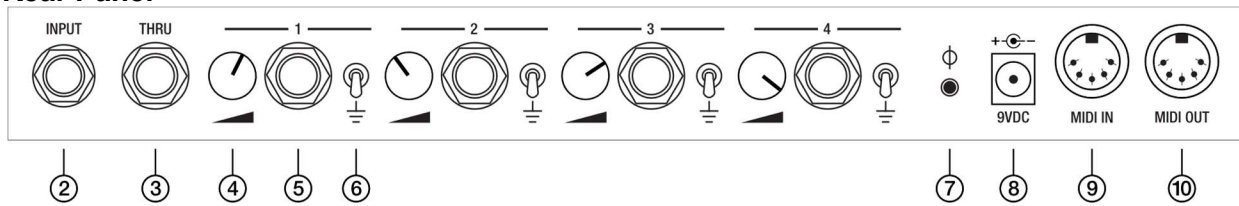
OVERVIEW

Top Panel



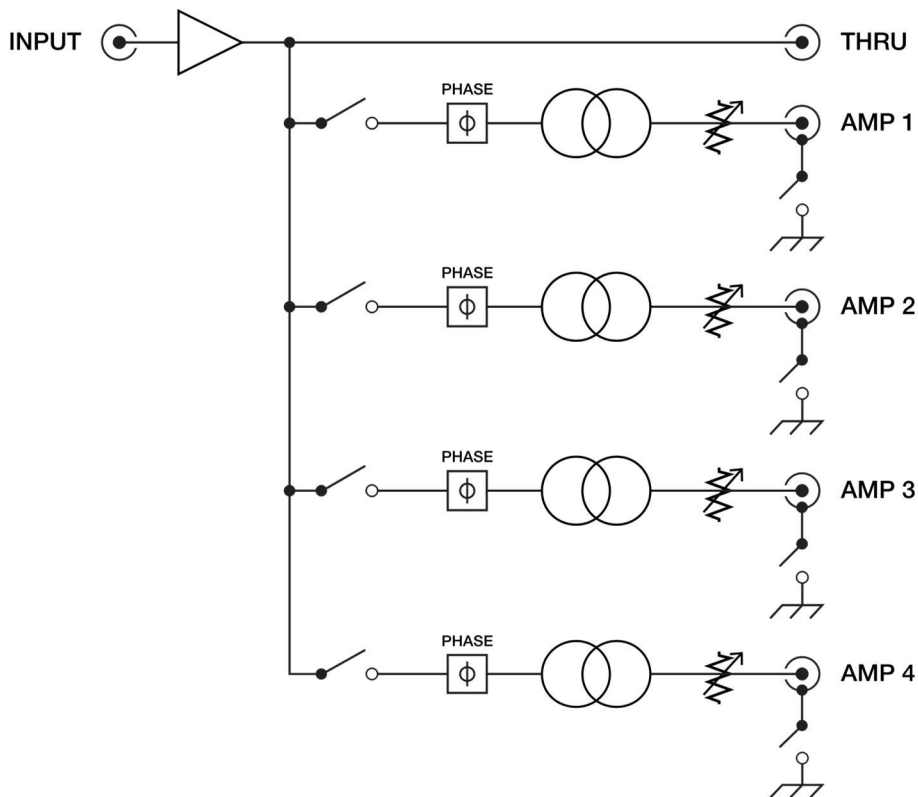
1. Footswitches: Turn outputs on or off. LEDs light when outputs are active.

Rear Panel



2. Input: Connect from guitar or pedalboard.
3. Buffered Thru: Always on. Connect to tuner, DI box, or recording interface.
4. Level Controls: Adjust output levels to balance amps. Max is slight boost.
5. Outputs: Connect to amplifier inputs.
6. Ground Lift Switches: Down is normal. Switch up to lift ground if hum or buzz.
7. Phase Invert ϕ : Hold and use footswitches to invert phase.
8. Power: Connect to 9VDC power supply, center negative. Requires less than 80mA.
9. MIDI In: Receives MIDI commands to recall presets, turn outs on/off or set phase.
10. MIDI Out: Echoes commands received from MIDI IN for chaining devices.

Signal flow diagram



OPERATION

Amp Selector Pro lets you choose between four different operating modes by selecting *normal* or *exclusive* for each output. Normal mode provides simple on/off control and is the factory default.

Normal Mode

Each footswitch simply toggles its output on or off. Normal mode is a good choice if you want maximum flexibility to switch or layer amps. Set all outputs to *normal* for this mode.

Exclusive Mode

Pressing a footswitch turns on that output and turns off all other outputs set to exclusive. This lets you switch between amps with a single button press. Use exclusive mode when you always play amps one at a time. Set all outputs to *exclusive* for this mode.

You can also set just one output to *exclusive* for Single Exclusive mode, or create an Exclusive Group by setting two or more.

Single Exclusive

If one of your amps is always played alone, set only that output to exclusive. When you select it, all other outputs turn off. When you select any normal output, the exclusive output turns off.

Exclusive Group

If you have two or more outputs that are never layered with each other, set them all to *exclusive*. When you select a new exclusive output, the old exclusive output turns off. Outputs set to *normal* can still be layered with any exclusive output.

Selecting Your Operating Mode

1. Connect power while holding button 1.
2. Release the button when the LEDs flash.
3. Press each footswitch to select between *normal* and *exclusive*. LED off is normal.
4. Remove power to save and exit.

Fixing Hum and Buzz: Ground Lift Switches

Guitar equipment can have multiple ground connections through the audio cables, power source, and connections to other equipment. When this causes unwanted electrical current to flow, the result can be hum or buzz. This is commonly referred to as a *ground loop*.

Amp Selector Pro includes isolation transformers and ground lift switches for each output. This allows you to isolate the grounds as needed to eliminate the noise.

Always start with the switches in the down position. Moving a switch to the up position will isolate ground for that output. If you hear hum or buzz, isolate the grounds one at a time until your rig is quiet.

Fixing Thin or Hollow Tone: Phase Invert

When you listen to multiple audio sources combined, they may sound thin or hollow. This happens when they are out of phase with each other. Phase refers to the polarity of the signals. When two amplifiers are out of phase, their speakers move in opposite directions and cancel out certain frequencies.

Amp Selector Pro lets you invert the phase of each output independently to fix this problem. The Phase Invert button is marked with the Greek letter phi ϕ . In physics, the symbol ϕ is used to represent phase.

When you press and hold the Phase Invert button, the LEDs show the phase of each output. LED off is normal, where the output phase is the same as the input. Press each button while holding the Phase Invert button to turn the LED on and invert the phase. The buffered Thru is always the same phase as the input.

Find the correct phase setting by listening to amps and monitors playing together. Then select normal or inverted for each output until you don't hear them canceling each other.

USING MIDI

Amp Selector Pro can receive commands from a MIDI foot controller or any device capable of sending MIDI messages. You can turn individual outputs on or off, select the phase, or recall preset combinations.

Save and Recall Presets

You can save and recall up to 128 presets using MIDI program change messages. Each preset saves which outputs are on or off and the phase settings.

You must enable program change messages--see *Enable Message Types* below.

Saving a preset:

1. Send the MIDI program change message for the preset number you want to save.
2. Set the four footswitches to the desired combination.
3. Set the phase for each output as needed.
4. Press and hold footswitch 1. While holding, also press footswitch 4. Release both buttons. All four LEDs will blink to confirm the preset is saved.

Recalling a preset:

Send the MIDI program change message for the preset. Amp Selector Pro will recall the saved output combination and phase settings.

Using with Ground Control Pro (GCX emulation)

You can control Amp Selector Pro exactly the same as a GCX. You must disable both program change and control change messages. See *Enable Message Types* in the next section and select *none*. MIDI channel and control change number are ignored. Now you can switch the outputs as if they are GCX loops 1-4.

Enable Message Types

You can select whether the Amp Selector Pro responds to MIDI Program Change (PC), Control Change (CC), both message types, or none.

The default is *none*, both PC and CC are disabled.

1. Connect power while holding button 2.
2. Release the button when the LEDs flash.
3. Press buttons 1 and 2 to select message type.
4. Remove power to save and exit.

MIDI Message Type	LED 1	LED 2
None	OFF	OFF
PC only	ON	OFF
CC only	OFF	ON
Both PC and CC	ON	ON

Control Change Numbers

You can use MIDI Control Change (CC) to turn outputs on/off and select between normal and inverted phase. Each message includes a controller number that specifies which output and the function. You can select from 8 different groups of CC numbers. The default group uses 80-83 to turn outputs on/off and 104-107 to select their phase.

Select the CC number group according to the following table.

1. Connect power while holding button 4.
2. Release the button when the LEDs flash.
3. Press buttons 1, 2 and 3 to select the CC number group.
4. Press button 4 to allow control of phase. LED 4 on is enabled.
5. Remove power to save and exit.

On/Off	Phase	LED 1	LED 2	LED 3
80-83	104-107	OFF	OFF	OFF
84-87	108-111	ON	OFF	OFF
88-92	112-115	OFF	ON	OFF
93-96	116-119	ON	ON	OFF
64-67	96-99	OFF	OFF	ON
68-71	100-103	ON	OFF	ON
56-59	72-75	OFF	ON	ON
60-63	76-79	ON	ON	ON

Set MIDI Channel

MIDI program change and control change messages include a channel number, 1 through 16. Amp Selector Pro will only respond to messages received on its specified channel. The default MIDI channel is 1.

1. Connect power while holding button 3.
2. Release the button when the LEDs flash.
3. Press buttons 1 through 4 to select the MIDI channel.
4. Remove power to save and exit.

MIDI Channel	LED 1	LED 2	LED 3	LED 4
1	OFF	OFF	OFF	OFF
2	ON	OFF	OFF	OFF
3	OFF	ON	OFF	OFF
4	ON	ON	OFF	OFF
5	OFF	OFF	ON	OFF
6	ON	OFF	ON	OFF
7	OFF	ON	ON	OFF
8	ON	ON	ON	OFF
9	OFF	OFF	OFF	ON
10	ON	OFF	OFF	ON
11	OFF	ON	OFF	ON
12	ON	ON	OFF	ON
13	OFF	OFF	ON	ON
14	ON	OFF	ON	ON
15	OFF	ON	ON	ON
16	ON	ON	ON	ON

FACTORY RESET

You can restore the factory default settings and clear any saved presets.

1. Connect power while holding button 1 and the Phase button.
2. Release the buttons when the LEDs flash.
3. LED 1 will be on. Press footswitch 1.
4. Press footswitches 2, 3, and 4 as each LED comes on.
5. When the reset is complete, the LEDs will flash. Remove power.

WARRANTY (North America Only)

Voodoo Lab warrants this product against any defects that are due to faulty material or workmanship for a period of five years from the date of original retail purchase. This warranty does not include damage to the product resulting from accident or misuse.

If the product should become defective within the warranty period, Voodoo Lab will repair it or replace it free of charge, provided it is returned freight prepaid to Voodoo Lab with a valid RMA (return material authorization) number. Return shipping will be paid by Voodoo Lab within the U.S. only.

This warranty shall not apply to any goods that have been repaired or altered by anyone other than the manufacturer. There are no warranties which extend beyond the terms described herein.

Should you experience any difficulty with this Voodoo Lab product, contact us as described below. If it is determined that the product must be returned to the factory for repair, you will be issued an RMA and given shipping and packaging instructions.

Outside North America

Regions outside North America please contact your country's distributor for warranty information.

HOW TO REACH US

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