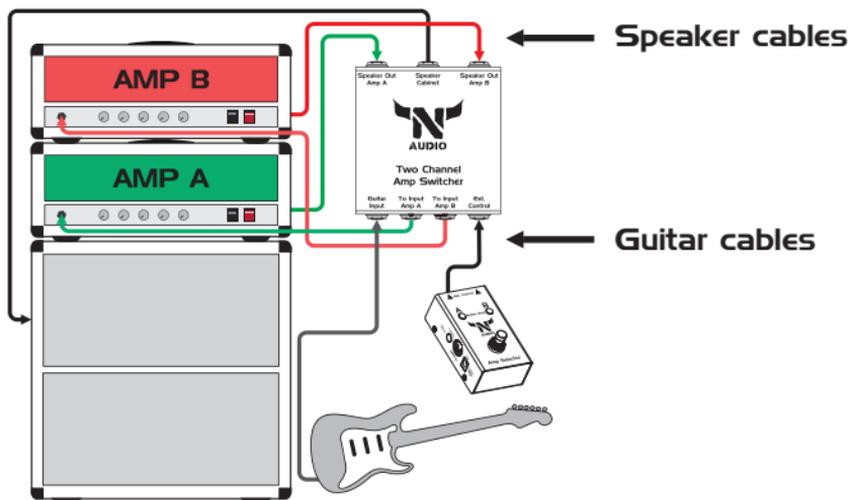


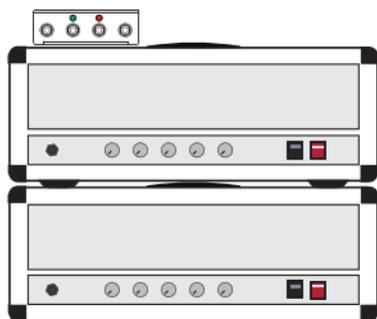
N-audio Two amps to cabinet switching system

User manual

The N-audio Two amps to cabinet switching system is a flexible set of two or three devices. It has several capabilities, with its main function being switching between two amps connected to a single speaker cabinet. Switching is done by a footswitch or via an external MIDI controller. The connection between the foot controller and the relay unit is achieved with a standard $\frac{1}{4}$ " mono guitar cable. The signal routing is made with high-quality gold-plated relays to avoid tone alteration. Both inputs and outputs are electrically isolated from each other to eliminate ground loops. The device has built-in protection, specially designed to work with tube amps. The foot controller is equipped with two outputs to control one or two relay units. There are many possibilities for using this switching system, but here is the typical wiring of two guitar amplifiers connected to a single cabinet:

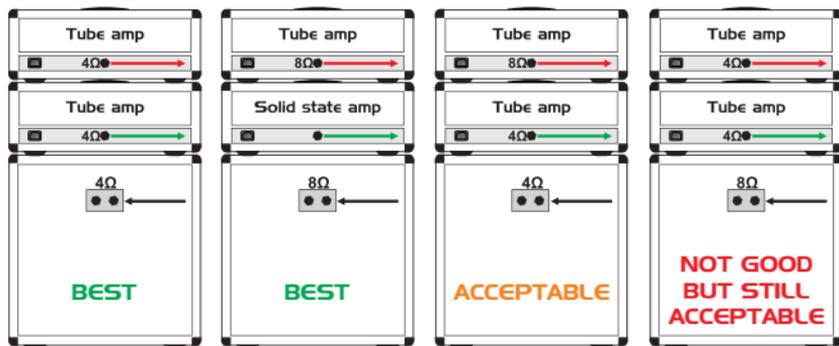


Using N-audio two amps to a cabinet:



Place the relay unit close to the amplifiers. Better yet on top of them, to prevent long speaker cable runs. Use standard shielded mono guitar cables and speaker cables for the outputs of the amplifiers and the guitar cabinet. The whole system is powered by the foot controller using a standard center negative BOSS style 9-12VDC adapter. Switching between both amps is achieved by a footswitch or via MIDI. When the footswitch is pressed, the two channels – A and B are switched one after the other. Together with this, you can switch channels from your MIDI controller.

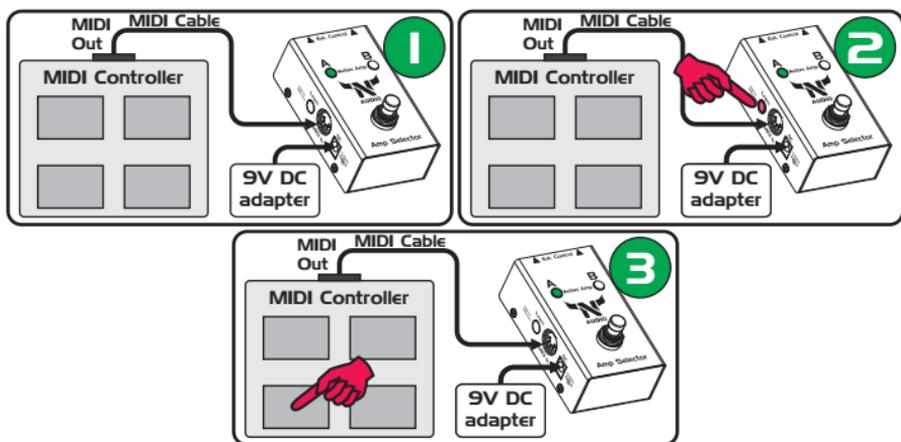
WARNING: If one or two tube amps are used, the selected speaker impedance must be the same as the cabinet's impedance. It is acceptable to use tube amplifiers with higher selected impedance than the cabinets.



MIDI programming:

The Two amps to a cabinet system receives the MIDI data and saves it to a given preset. Unlike many other MIDI devices, when using this device you don't need to know and understand how MIDI works: MIDI channels, MIDI notes, control changes, etc. MIDI programming itself is very quick and easy. All you have to do is to follow these three steps:

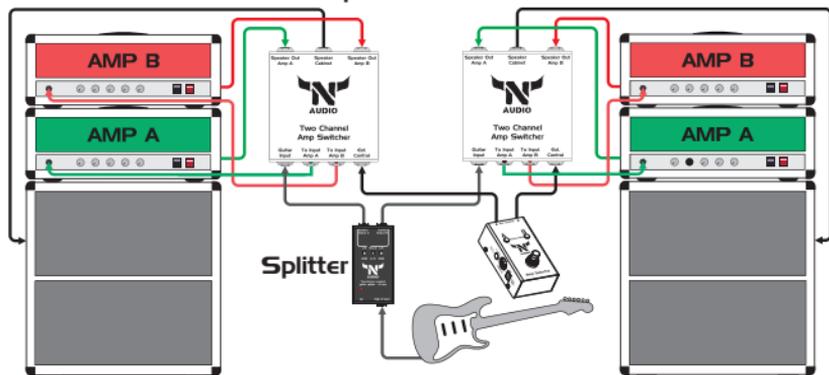
1. Select one of the two active amplifiers: A or B.
2. Press and hold the MIDI LEARN button for about two seconds until it lights up showing that the device is waiting to receive MIDI data.
3. Press the desired footswitch on your MIDI controller.



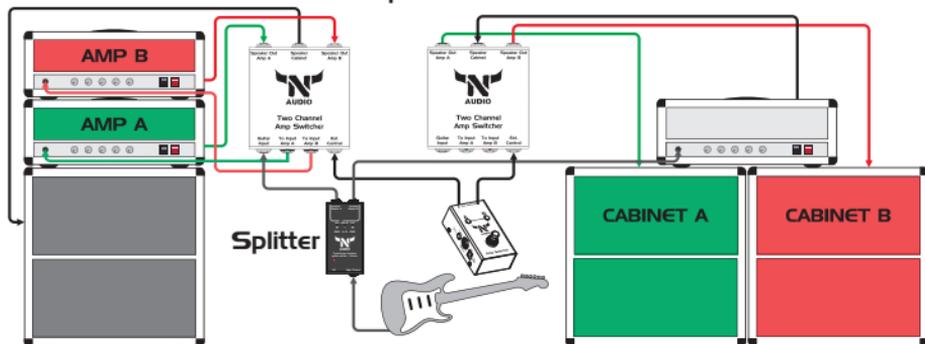
Done! You have already programmed one of the two modes. Switch to the other amplifier and program it following the same steps. When programming a previously programmed mode, the device automatically overwrites the new MIDI data and deletes the previous ones. If you wish to delete existing MIDI control data: press the MIDI LEARN button while the device is powered off and switch it back on while still holding the button. Wait a few seconds until LEARN stops blinking.

Practical examples:

Stereo four amplifiers with two cabinets

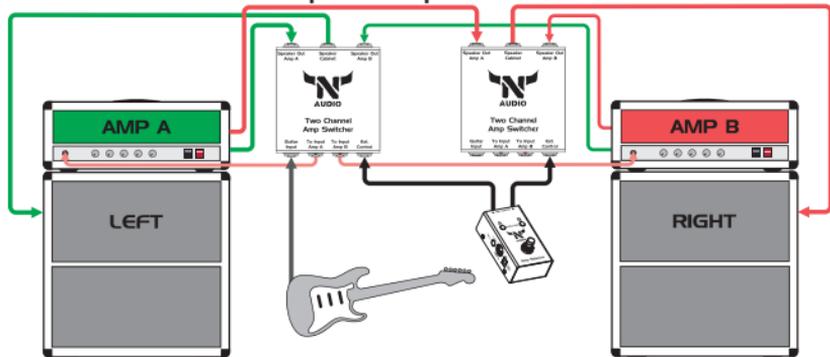


Stereo three amplifiers with three cabinets



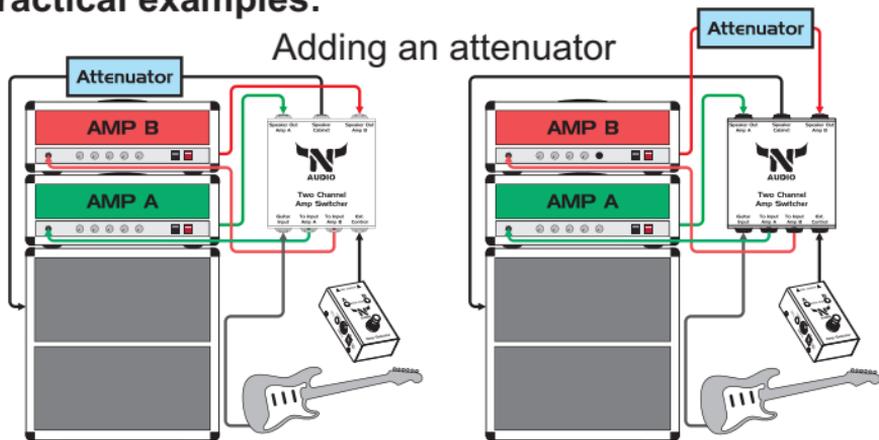
If a stereo Two amps to cabinet system is used, in order to prevent ground loops, it is recommended to isolate the guitar signal via a transformer isolated splitter.

Two stereo output amplifiers to two cabinets



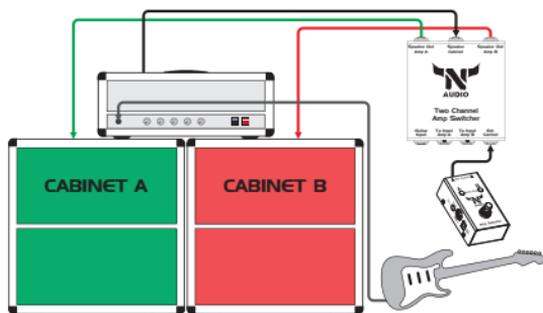
Practical examples:

Adding an attenuator

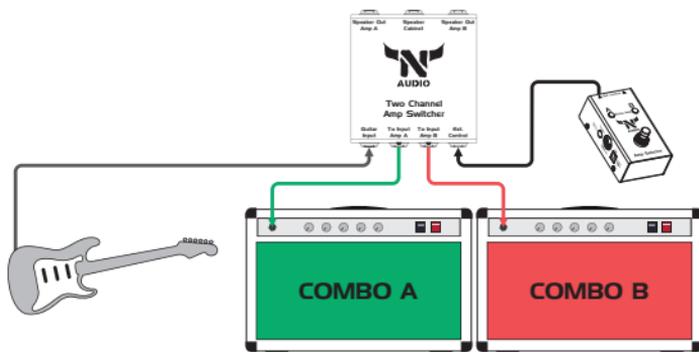


One master attenuator or separate attenuators for each amplifier could be added.

One amp to two cabinet switching



Switching between two combox



IMPORTANT:

For safety reasons, after everything is connected, power your amps first at the low volume settings to prevent mistakes caused by the wrong cable arrangement. Then increase the volume.

Maximum power rating:

Maximum power rating depends on your amplifier's maximum power and the speaker cabinet's impedance. The Two amps to cabinet system work with all 100W heads. You can use up to 200W amplifier but with a minimum speaker impedance of 8 Ohm (i.e., 8 or 16 Ohm). For example, it's not recommended to use a 200W amplifier with 2 or 4 ohm speakers.

Specifications:

- Dimensions:
 - Foot controller W/D/H - 6/10/4 cm
 - Control unit W/D/H - 10/11/3,5 cm
- Power supply: BOSS style 9-12VDC adapter 
- Current consumption:
 - Mono version - 230mA
 - Stereo version - 420mA
- Midi controllable
- Speaker relays are rated to 16 Amps
- Supported all mono and mono bridge (floating outputs) amplifiers like Kemper or BIAS amps