



AXSGTR[®] | Axess Electronics[™] User Manual OTS2[™] PATCH-BOX

The AXSGTR[®] OTS2[™] Patch-Box is a super simple interface for your two cable method [2CM] or stereo guitar rig and pedalboard. It includes a Class-A input buffer for your guitar and a pair of passive ¼" TRS through jack connections for your effects and back-line amplifier(s).

The discrete Class-A input buffer that's included for your guitar has an input impedance and other finely tuned characteristics which mimic that of high quality tube amplifier inputs. It will safeguard, strengthen and prepare your guitar's signal for whatever follows in the signal path.

It presents the guitar with a dynamic and ideal load that remains steadfast, resulting in consistent tone while allowing the guitar to breathe and feel, as if it were plugged directly into the front of a tube amp.

I/O DESCRIPTION

⚠ ATTENTION ⚠ Do NOT connect speaker level audio signals to any of the ¼" jacks on the OTS2[™] Patch-Box — they are ONLY meant for instrument level, line level, and amplifier foot-switch and control signals.

BUF/BYP switch pressed [IN] activates the input buffer and [OUT] bypasses it.

POWER LED indicates the OTS2[™] is receiving power, when it's illuminated.

FROM GTR ¼" jack serves as the primary guitar input and features our Class-A buffer circuit.

TO GT-FX ¼" output jack feeds the input of an effect pedal, a loop switcher, or some other device, on the pedalboard.

***Note:** When the guitar input buffer is turned off (bypassed), the FROM GTR and TO GT-FX jacks become passive TRS (tip-ring-sleeve).*

FROM GT-FX ¼" input jack accepts the output signal from an effect pedal, a loop switcher, or some other device, on the pedalboard.

TO AMP IN ¼" passive output jack feeds the input of an amplifier or other audio destination from the pedalboard.

***Note:** Always use the TO AMP IN jack as the pedalboard's primary (MONO) output.*

***Balanced/TRS:** If the last effect pedal or device in your pedalboard's signal path has balanced output(s), then connect the OTS2[™] output(s) to the intended destination using ¼" TRS balanced cable(s).*

TRS THRU (Pair) ¼" TRS passive through jacks are meant for another audio signal path, an amp foot-switch, or even MIDI.

***Note:** For dual amp or stereo rigs, use the TRS THRU jacks as the pedalboard's secondary (STEREO) output and for either of the two signals that is already transformer isolated.*

***Ground Loop(s):** Using two or more amps at the same time can result in ground loop hum/noise. The TRS THRU jacks are completely isolated and will not cause a ground loop on their own. But if the last effect pedal or the device connected to the OTS2[™] doesn't have an output that is already transformer isolated, a ground loop can occur. Our ΩOMPΔTT/X[™] IsoPlus[™], which is a completely passive device, connected right before one of the amplifier inputs, will quickly eliminate the ground loop and its hum/noise.*

***Phasing Issue(s):** Running multiple amps at once can sometimes lead to a phase cancellation issue, which results in a sound that can be described as hollow, thin, not as loud, lacking low end or fullness. If this happens, our ΩOMPΔTT/X[™] IsoPlus[™] can be used to remedy it (along with a ground loop...).*

9VDC external power supply input jack accepts a standard 2.1mm x 5.5mm male barrel plug from a 9VDC wall-wart power adapter or pedalboard power supply with a NEGATIVE CENTER plug. Refer to the SPECIFICATIONS section for additional information and maximum operating voltage(s).

⚠ ATTENTION ⚠ Do NOT connect any other DC Voltage or AC Voltage power supply to this jack other than that specified in this section and in the SPECIFICATIONS section, below. Doing so may result in damage — voiding the warranty.

SPECIFICATIONS

Input Buffer:

Input Impedance: 1MΩ

Output Impedance: 100Ω

Operating Voltage: 9VDC (to 18VDC)

Power Jack: 2.1x5.5mm Barrel ⚡⊖⊕

Current Draw: Less than 100mA@9VDC

Dimensions (LxWxH): 4.43x2.38x1.22inch
112.5x60.5x31mm

Specifications subject to change without notice.

⚠ ATTENTION ⚠ Some switched-mode power supplies (SMPS) and wall-wart power adapters are noisier than others, which can result in an audible high-pitch "whine". Trying to run too many devices from a single adapter or power supply output can also result in noise and/or an audible "whine". If this occurs, we recommend either trying another wall-wart power adapter or a pedalboard power supply with enough isolated outputs to power every device/effect on your pedalboard individually; better power equals less noise = more tone!!

CONNECTION DIAGRAMS

Click the link(s) below, to our site, for hi-res PDF diagrams of the OTS2[™] Patch-Box in action.

[OTS2[™] Patch-Box Diagrams](#)

Follow us on [Instagram](#), [Threads](#) (the app) and [Twitter](#) at [@axsgtr](#) and tag us using [#axsgtr](#) and [#axesselectronics](#) OR if you require assistance, contact us by email or via our website, as follows;

info@axesselectronics.com

axesselectronics.com