AXSGTR® | Axess Electronics™

User Manual

DBIO™ PATCH-BOX

The AXSGTR® DBIO™ Patch-Box is a dual-buffer interface for your two cable method [2CM] guitar rig and pedalboard. It includes a Class-A guitar input buffer and a high-headroom output line-driver, which can also be used as a balanced long-line transmitter, for the cable run between your pedalboard and back-line amplifier.

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.

The high-headroom output line-driver has superb capacitance and load impedance drive capabilities which means long lengths of cable or daisy-chained passive splitters such as the ΩOMPΔTT/X™ IsoPlus™ will never be an issue.

For extra long (up to 330ft. / 100m) cable runs with greater noise immunity, use a balanced ¼" TRS cable between the DBIO™ Patch-Box and ΩOMPΔTT/X™ IsoPlus™ — which is a completely passive device.

I/O DESCRIPTION

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

POWER ON LED indicates the DBIO™ 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. It features our high-headroom output line-driver circuit.

TO AMP IN ¼" output jack feeds the input of an amplifier or our ΩOMPΔTT/X™ IsoPlus™ via standard ¼" TS instrument cable.

For extra long (up to 330ft./100m) cable runs between the pedalboard and a backline amplifier, with greater noise immunity, use a ¼" TRS balanced cable between the DBIO™ Patch-Box and the ΩOMPΔTT/X™ IsoPlus™.

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.*

FILTER SELECTION

Inside, the DBIO™ Patch-Box includes 16 user selectable filters. Depending on the enclosure version, selection can be made via an opening on the bottom of the enclosure or by removing the four (4) Philips head screws, underneath the rubber feet. Filter selection instructions are included on the bottom of the enclosure or inside.

The factory default setting is full-range, but if you'd like to experiment with the filters, feel free to do so.

Whichever filter you decide on, rest assured that the DBIO™ Patch-Box will NOT load down your guitar's pickups or signal.

SPECIFICATIONS

Input Buffer:
  Input Impedance: 1MΩ
  Output Impedance: 100Ω

Output Line-Driver:
  Input Impedance: 1MΩ
  Output Impedance, Balanced: ≤40Ω
  Output Impedance, Unbalanced: ≤20Ω

Operating Voltage: 9VDC
Maximum Operating Voltage: 12VDC
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 DBIO™ Patch-Box in action.

DBIO™ Patch-Box Diagrams