Axess Electronics UNZ1 Un-Buffer Fuzz Pedals User Manual

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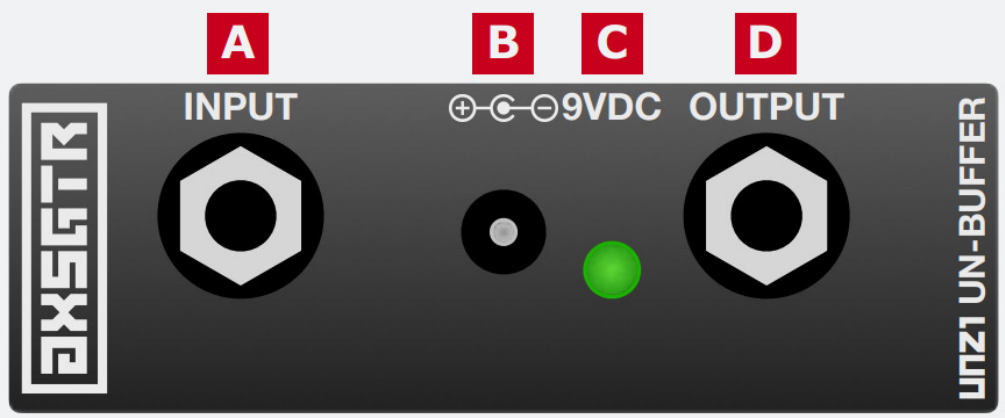
Contents

UNZ1 Un-Buffer Fuzz Pedals

The UNZ1 Un-Buffer allows dearly loved fuzz pedals and other impedance [aka Z] sensitive effect pedals to sound “right” when fed with a low Z signal; such as from a buffer, wireless receiver, a guitar with active pickups, or another effect pedal.
The benefits of directly connecting a guitar to a good input buffer, before anything else, has been very well documented; buffers prevent the loading and loss of (1) high end frequency response (2) signal level, and (3) low end punch, due to cable capacitance and the imperfectly designed input stage/circuitry of some pedals. These problems still occur even if all of the pedals have true-bypass switching, which also adds inconsistent tone to the equation — because every time a different pedal is turned on or off, the guitar sees a different load, and it responds differently to each load. Every additional pedal and every extra foot of cable in a rig, results in more and more loss and loading, that only a buffer can prevent.
The UNZ1 Un-Buffer enables reaping the benefits of plugging a guitar directly into a buffer and still being able to use a fuzz pedal or other impedance sensitive effects, anywhere in the signal path that follows. The active circuit converts a low impedance signal back to high impedance, restoring the magical interaction between guitar and fuzz pedal, even though they are not directly connected to one another.
Analog effect pedals, and guitars, have a dynamic and interdependent relationship, and so when two devices are connected — they interact with one another. The signal that passes between the two devices is a unique result of the characteristics of the output and input circuit of those two devices. So, you cannot substitute one device or the other, and expect the exact same results, but you can get close! And the UNZ1 will get you there by making a buffered and/or low-Z signal “look like” a guitar’s pickup, allowing for a more authentic interaction with the input of fuzz pedals or other impedance sensitive effects.

I/O DESCRIPTION



A. INPUT is a ¼” TS (tip-sleeve) jack that accepts a low impedance signal from a buffer, wireless receiver, a guitar with active pickups, or an effect pedal.
B. 9VDC is the external power supply jack and it 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 higher operating voltages.
⚠ ***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. Doing so will result in damage — voiding the warranty.

C. GREEN LED is the power LED and when it is lit up, it indicates the UNZ1 Un-Buffer is receiving power.
D. OUTPUT is a ¼" TS (tip-sleeve) jack that provides a hi-Z version of the INPUT jack signal, and is meant to be connected directly to the input of a fuzz pedal or another impedance sensitive effect pedal.

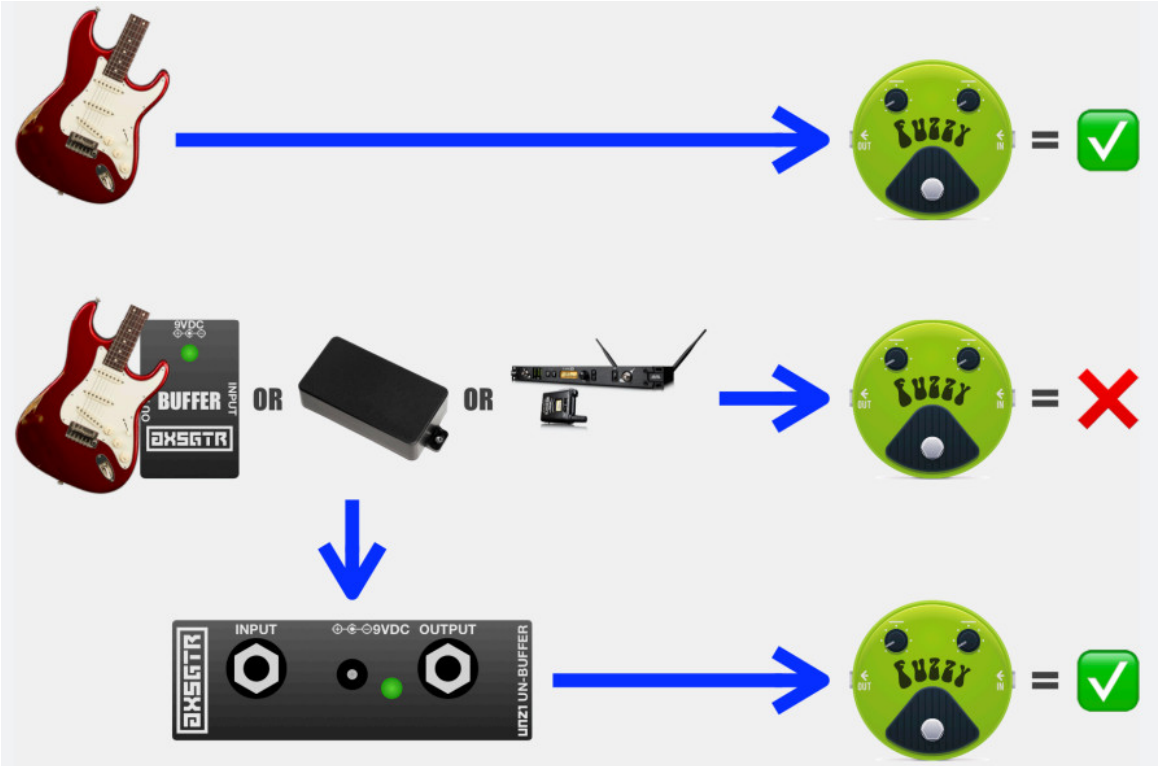
SPECIFICATIONS

Input Impedance: 1MΩ
Output Impedance: Hi-Z
Operating Voltage: 9VDC
Power Jack: 2.1×5.5mm Barrel
Current Draw: Less than 100mA@9VDC
Dimensions (LxWxH): 3.65×1.52×1.25inch 92.7×38.6×31.8mm
Specifications are subject to change without notice.

CONNECTION DIAGRAMS

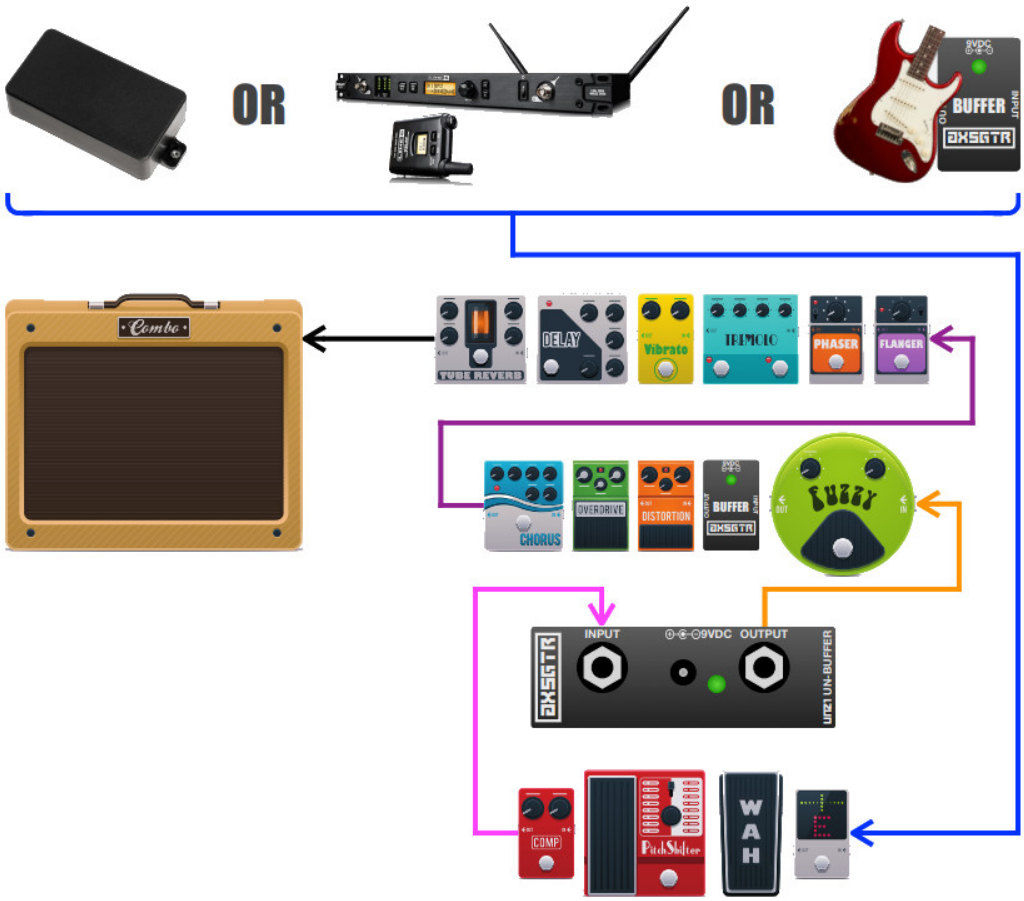
The following pages highlight some of the different ways the UNZ1 Un-Buffer can be utilized. Hi-res PDFs of the individual diagrams are also available on our **website**.
Follow us on Instagram and Twitter at @axsgtr and tag us using #axsgtr and #axesselectronics OR if you require assistance, contact us by email or via our website, as follows;
info@axesselectronics.com
axesselectronics.com

UNZ1 UN-BUFFER & FUZZ PEDALS 101



The **AXSGTR™ UNZ1 Un-Buffer** allows dearly loved Fuzz pedals and other impedance (Z) sensitive effect pedals to sound "right" when fed with a low Z signal; such as from a buffer, wireless receiver, a guitar with active pickups, or another effect pedal. Line ® G90 image via **linea.com**. Line 6® is a registered trademark of Yamaha Guitar Group, Inc. Yamaha Guitar Group, Inc. is not affiliated with, and does not endorse, sponsor, or support AXSGTR™ and/or Mess Electronics™

FUZZ PEDAL 'FIX' FOR ACTIVE PICKUPS / BUFFERED GUITAR / WIRELESS



The AXSGTR™ UNZ1 Un-Buffer allows dearly loved Fuzz pedals and other impedance [Z] sensitive effect pedals to sound “right” when fed with a low Z signal; such as from a buffer, wireless receiver, a guitar with active pickups, or another effect pedal.
Buffer(ing) after the Fuzz is not mandatory, but is recommended.
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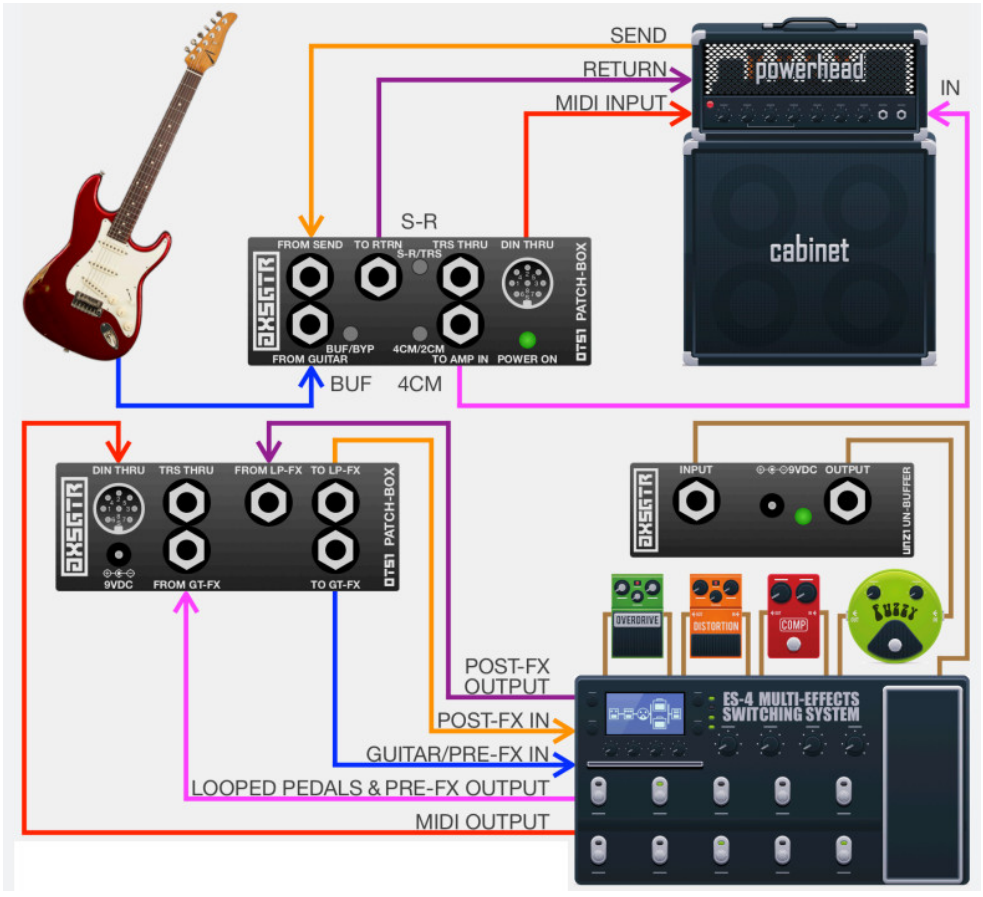
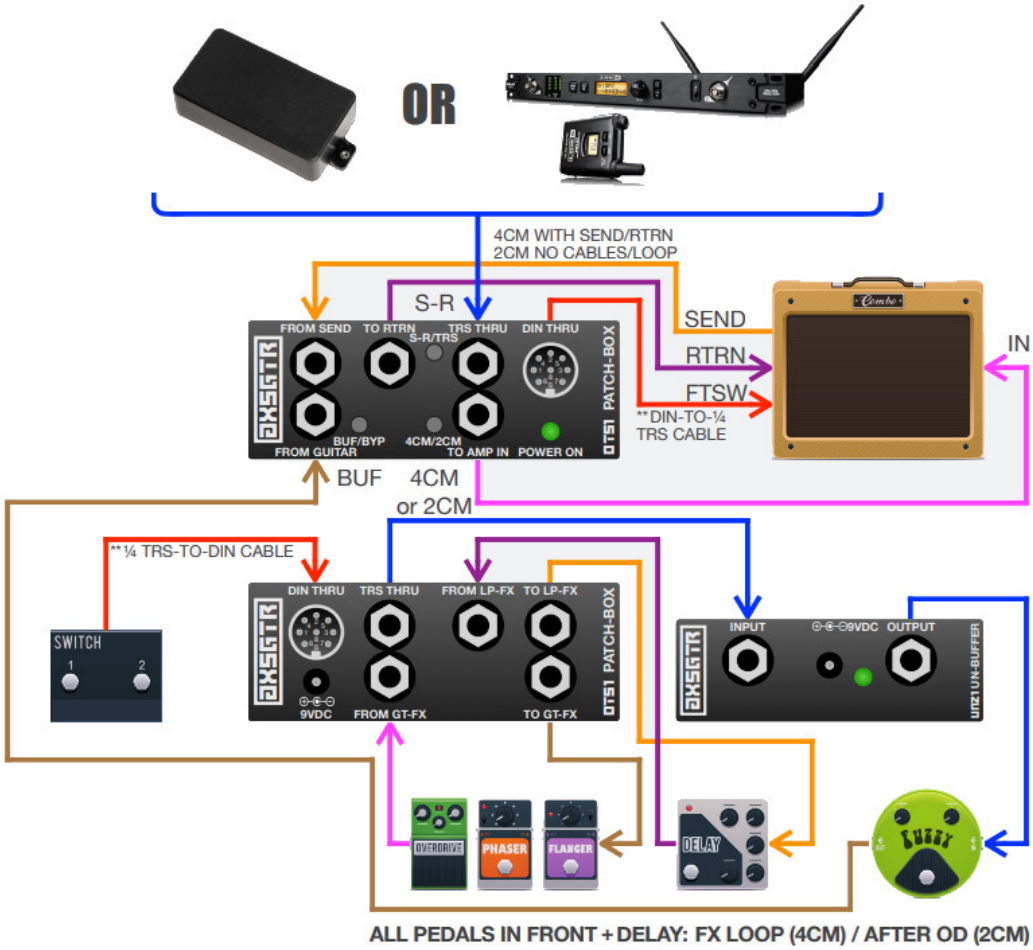
FUZZ PEDAL ‘FIX’ FOR MULTI-FX LOOP-SWITCHER + OTS1 PATCH-BOX



The **AXSGTRT™ UNZ1 Un-Buffer** allows dearly loved Fuzz pedals and other impedance (Z) sensitive effect pedals to sound ‘right’ when fed with a low Z signal; such as from a buffer, another effect pedal, or a multi-fx loop switcher.

FUZZ PEDAL ‘FIX’ FOR ACTIVE PICKUPS OR WIRELESS + OTS1 PATCH-BOX WITH INSTANT 2↔4 CABLE METHOD SWITCHING AND POST FUZZ BUFFER



ALL PEDALS IN FRONT + DELAY: FX LOOP (4CM) / AFTER OD (2CM)

Press the OTS1 Patch-Box 4CM/2CM button to instantly reconfigure the pedalboard signal path when using an amplifier with an effects loop, the 4CM [IN], or one without, the 2CM [OUT].

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Documents / Resources

	Axess Electronics UNZ1 Un-Buffer Fuzz Pedals [pdf] User Manual UNZ1 Un-Buffer Fuzz Pedals, UNZ1 Un-Buffer, Fuzz Pedals, Pedals

References

- AXESS Electronics™ | Buffer, connect, control, effect, switch!