

Univox™ Super Fuzz™ Modifications Instructions

Version 2014 June 20

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This is a replica of the **Univox™ Super Fuzz**, and these are some modifications that you can do with yours when you build it. For these mods refer to the Modification Schematic and Layout PDF files that are on the project page on the site. Little red boxes on the schematic file indicate all the modifications listed in this file.

Modification 1

The original Super Fuzz had a Tone (notch) switch to switch between the popular nasally, raspy fuzz sound of the sixties to a more full bodied fuzz like you would hear in an old song by “The Who” (maybe). The first mod is to replace the switch with a more modern tone control potentiometer control. You can still get the two sounds of the switch, plus you get all the sounds in between. Refer to the Mods Schematic and Layout Diagrams. Use the wiring from these diagrams and use the tone potentiometer (**R26**) instead of the switch (**Sw2**). Note that you will need an enclosure with a different drilling configuration to do this modification.

Modification 2

This modification adds Trimmer **R23** (or can be a panel mount potentiometer) to give some control on the distortion clipping.

Modification 3

This modification adds a couple of small value caps across the transistor stages to smooth things out a bit. This is adding C3 and/or C15. You'll have to try this to see if you like this or not. The values can vary depending on the sound you are looking for. Suggested values are shown in the diagrams, but you may find other values more



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desirable for your sound.

Modification 4

Removing **R35** from the Expander potentiometer lug 1 to ground. R35 is sort of unnecessary and you can get the full range of **R9** if you leave it off.

Other Notes

- **R33** is added to help reduce the possibility of audible bypass switch clicking. It can be left out, but is a good addition in our opinion.
- Some versions did not have **R22** trimmer to balance the Q4 and Q5 transistors. We have included it since it lets you be less concerned about matching those transistors and to tune in the sound to your liking with the trimmer.
- The modifications should not significantly influence the voltage readings you get at the transistor pins, so even with the mods, you should still get about the same readings listed in the instructions file.

Here's an inside view of the unit we built to give you a general idea of how it looks when completed. This one does not include the C3 and C15 caps, but has the clipping trimmer and the tone potentiometer.

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