

SPROBE

FX TYPE: Breadbuddy

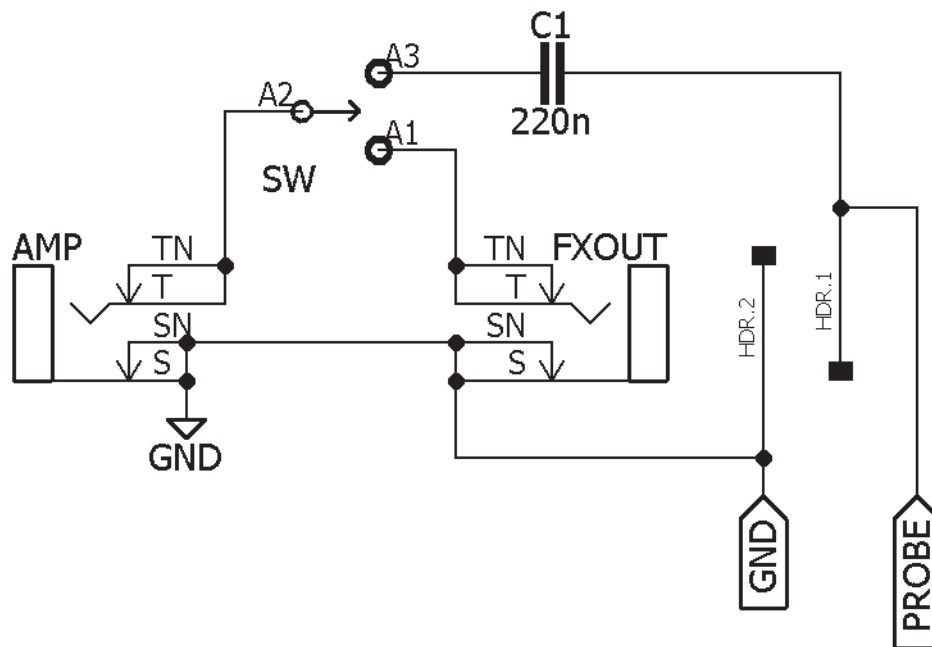
Enclosure Size: n/a

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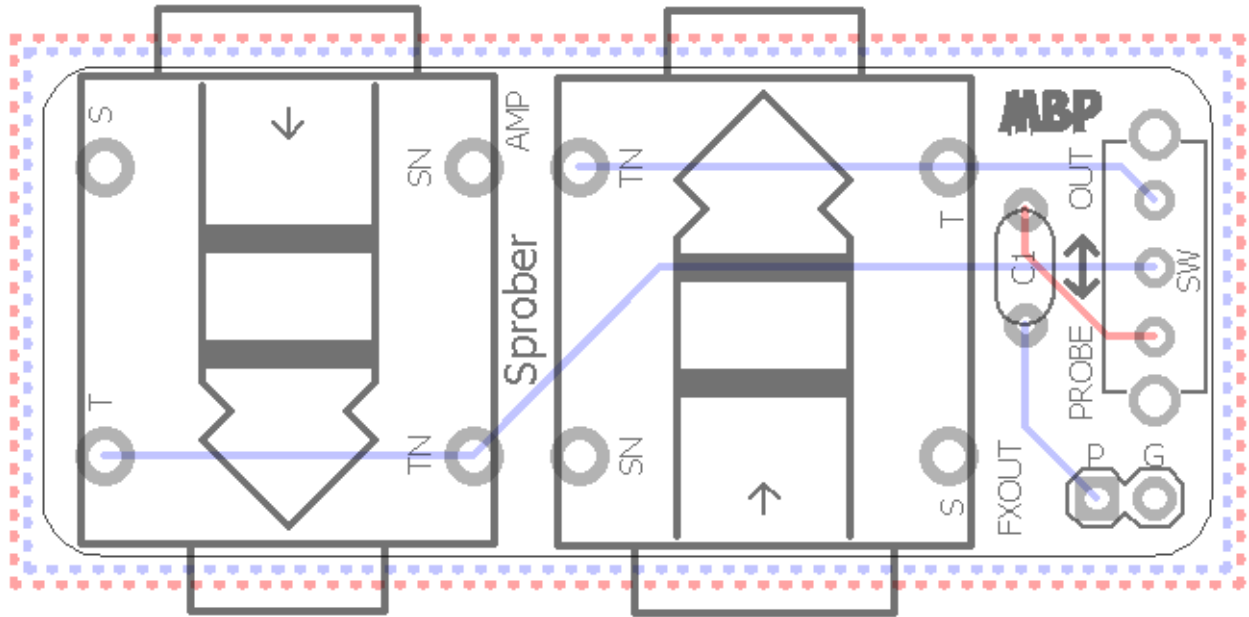
Overview

The **sProbe** is designed for one (actually two) simple functions: to easily audio probe a pedal that's already built. Audio probes are easy to implement in a prototyping/breadboard scenario (see the mbp Protorig for an example) but when it comes to a circuit that's already built and in an enclosure it requires making some kludgy connections. The sProbe let's you eliminate that by consolidating all the necessary connections into a simple PCB connector board. The sProbe is completely passive and requires no power. It can be built in about 10 minutes and for about \$10 (including the price of the sProbe PCB).



Terms of Use: You are free to use purchased **sProbe** circuit boards for both DIY and small commercial operations. You may not offer **sProbe** PCBs for resale or as part of a "kit" in a commercial fashion. Peer to peer re-sale is fine, though.

Technical assistance for your build(s) is available via the [madbeanpedals forum](https://www.madbeanpedals.com). Please go there rather than emailing me for assistance on builds. This is because (1) I'm not always available to respond via email in a timely and continuous manner, and (2) posting technical problems and solutions in the forum creates a record from which other members may benefit.



Mono jacks (2):

<https://www.taydaelectronics.com/hardware/6-35mm-1-4-plugs-jacks/6-35mm-1-4-stereo-insulated-switched-socket-jack-pcb-mono.html>

SPDT Slide Switch:

<https://www.taydaelectronics.com/slide-switch-1p2t-through-hole-0-5a-50vdc.html>

220n cap:

<https://www.taydaelectronics.com/capacitors/polyester-film-box-type-capacitors/0-22uf-100v-5-jfj-polyester-film-box-type-capacitor.html>

Alligator clip:

<https://www.taydaelectronics.com/black-alligator-clip-crocodile-35mm.html>

Philmore Test Probe:

<https://smallbear-electronics.mybigcommerce.com/test-probes/>

Check the mbp [ProtoRig documentation](#) for more info on how to use this Philmore probe as an audio probe:

You can use any cheap multimeter/test probe and simply strip the connector end to solder it to the sProbe PCB. So long as the probe tip is insulated (IOW, has a plastic covering) it will work fine as an audio probe.

Ex:

<https://www.tritekelectronics.com/electronic-test-equipment/clips-leads-probes/test-leads/philmore-sa15-test-lead-kit>

<https://www.tritekelectronics.com/electronic-test-equipment/test-leads/test-leads-philmore-473>

<https://www.tritekelectronics.com/electronic-test-equipment/test-leads/philmore-467-test-leads>

Primary use case:

- Connect your guitar or signal source to the input of the pedal to be tested. Connect the output of the pedal to the input of the sProbe. Connect the output of the sProbe to an amplifier. When the switch on the sProbe is in the “up” position, the signal passes directly from the pedal to your amplifier. Putting the switch in the “down” position activates the audio probe. You can use that to check the audio output on any point/part of the pedal being tested.

Secondary use case:

- The sProbe also has a ground connection which is soldered to an alligator clip. Use this to connect to the black lead of your multimeter. Now use the red lead from your multimeter to probe any point or part in the pedal to take a DC reading.

Thus, you can check audio output and voltage on any device you want to test using the sProbe

