

Breakout Box 1 Instructions

Version 2016October05

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This is the **Breakout Box**. It can be used to interconnect various types of connections; quarter inch, 5mm (mini jacks), and RCA jacks. Or it can be used to “break out” stereo jacks (1/4 inch or 5mm) into separate mono jacks. It is totally passive and can be used for connections to speakers from an amplifying device or for outputs from a phone or MP3 player (ear bud jack) into amplifying devices, or just about anything you can think of. The RCA jacks are for connections to “legacy” devices that are sometimes difficult to integrate into today's more modern devices. The Banana plugs allow “break out” of the **Tip** of any of the jacks out a probe (red base), the second probe (black base) being connected to the ground of all of those jacks. It makes for a very handy tool for studio, stage or workbench.

You may notice that our actual wiring of the box is not quite as straight-forward as the schematic shows. The reason being that the mini jack lugs are small and it is difficult to solder-tack more than one wire to them. The ¼ inch jacks and RCA jacks can easily accommodate two or three hookup wires, so we routed the wiring to make it easier to wire the mini jacks.

Construction is simple, just mount all the jacks in the enclosure and solder them together with hookup wire as shown in the wiring diagram. Note that the Banana Jacks are insulated from the enclosure. Make sure the plastic piece that goes inside the box is seated properly and flush with the inside surface of the enclosure.

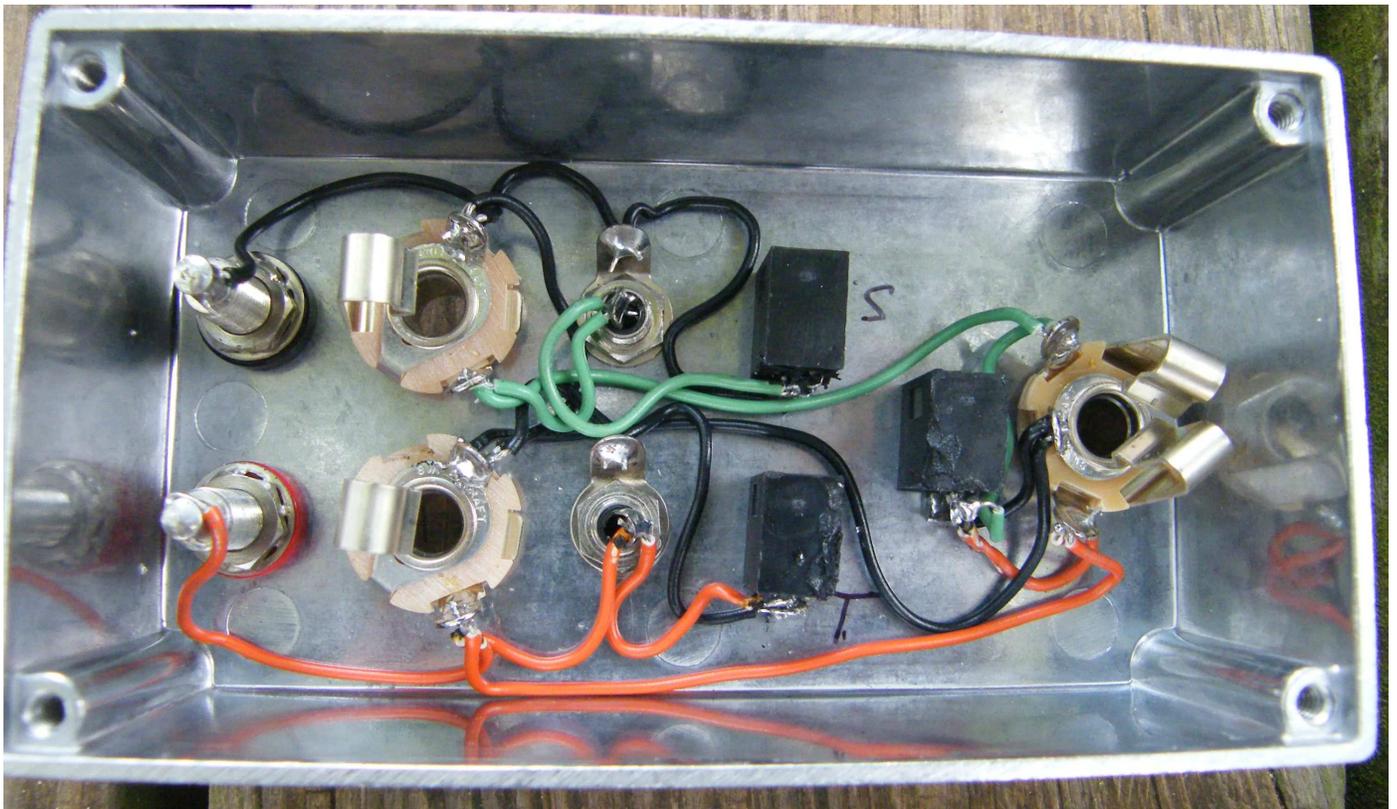
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Here's an inside view of the unit we built to show our construction details..



Comments and questions are welcome and can be sent to info@generalguitargadgets.com