

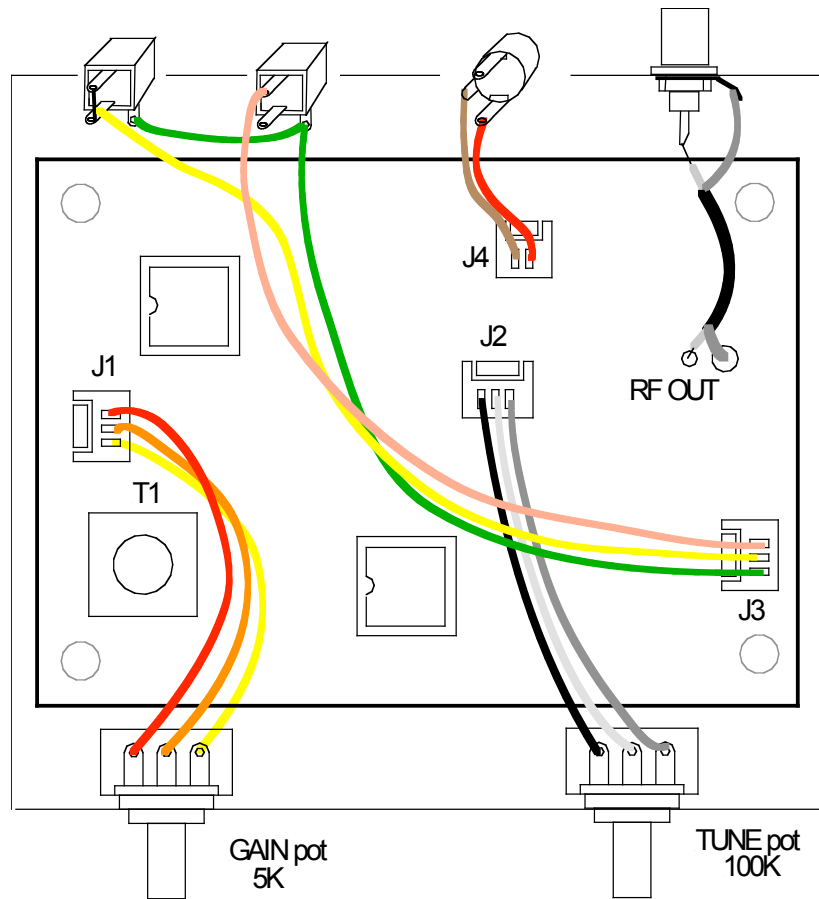
ENCLOSURE KIT
for the SW+ series transceivers

Thanks for purchasing this Small Wonder Labs product!

You'll find a 2-piece enclosure and bag of small parts which contains everything needed to package the SW+ series transceiver board into one slick-looking rig! Please check the contents of this kit against the parts list below. Contact us (last page) if you find shortages.

Qty.	Item	Description
1	Enclosure, SW+- 2-piece	Chassis, cover
1	Bag- enclosure hardware 2- #4 machine screw 4- bumper foot 4- mounting post	
1	5K Linear taper pot w/ flatwasher, nut	Marked 'B5K'
1	100K Linear taper pot w/ flatwasher, nut	Marked 'B100K'
1	BNC Connector	<i>(Bulkhead mount)</i>
1	Knob, medium	
1	Knob, large	
1	2.1/5.5mm bulkhead jack w/ nut	Power jack
1	2.1/5.5mm male plug	Power plug
2	3.5 mm 3-conductor jack	Headphone / key jacks <i>Preinstalled on Enclosure</i>
1	2-pin wire harness	Brown-Red
1	3-pin wire harness	Black-white-grey
1	3-pin wire harness	Green-yellow -orange
1	3-pin wire harness	Yellow-orange-red
1	2-pin terminal header	
3	3-pin terminal header	
1	2' (0.7m) two-conductor power wire	/ striped lead = positive
1	3" (7 cm) RG-174/U coax	

Assembly Pictorial:



Recommended assembly sequence:

- 1) Install the 5K (gain) and 100K (tuning) pots on the front panel. The flatwashers should be installed on the outer (front) side of the panel. Orient the terminal lugs as shown in the drawing above and install and tighten the mounting nuts. If available, use a small pair of vise grips or adjustable wrench for this step.
- 2) Install the rear panel connectors as shown above (*3.5mm jacks are already installed*). Lockwashers or ground lugs should be installed on the inside of the panel between the nut and the panel well. Tighten each connector firmly. *This isn't a test of strength!- it's possible to damage the connectors if using excessive torque.* Take care to avoid gouging the rear-panel surface while tightening the hardware- a small vise-grip pliers is preferred.
- 3) **(Board preparation):** Install the 2-pin (J4) and three 3-pin (J1-J3) terminal headers on the SW+ printed circuit board. Be sure to match the installation orientation as shown on the drawing above.

- 4) **(Board preparation)** Strip 3/8" (1cm) of the outer insulation from one end of the supplied coax. Separate the outer shield (by unbraiding it) and re-form the shield wire into a twisted bundle. Strip 1/8" (3mm) of insulation from the center conductor. Install the center conductor into the 'RF out' connection on the printed-circuit board and solder. Installed the shield wire bundle to the right of the 'RF out' connection and solder.
- 5) Snap the 4 white plastic mounting posts into the holes at the corners of the printed-circuit board. Snap this assembly into the bottom half of the enclosure. When this step is completed, the board should be rigidly restrained and evenly seated on the posts.
- 6) Install J1 through J4 and wire as shown in the assembly pictorial. Trim excess wire length from the harnesses as you install them and connect the wires. Note that the ground lugs for the 'key' and 'AF Out' connectors should be wired together using a spare piece of harness wire.
- 7) Prepare the free end of the coax and solder its center conductor to the center post of the BNC (Ant.) connector. Solder the coax ground braid to the BNC connector's ground lug- **Do not omit this step.**
- 8) Install the two knobs, bumper feet and enclosure top cover.
- 9) Unthread the plastic shroud from the DC power plug- Prepare a DC power lead using the length of black 2-conductor wire. Wire the lead with the white stripe to the center conductor of the power plug. The white stripe denotes the positive supply lead. Wire the remaining wire to the body of the connector. Slide the shroud on over the wire lead (from the rear) and thread it down over the plug to complete the assembly.

Afterthoughts: Substitute parts for the connectors in this kit are available from your local Radio Shack dealer. If you run into a snag, a visit there may be the quickest way to get back on track. Feel free to contact me, though, and I'll 'make it right' if you do encounter parts trouble.

Parts Problems?

If you discover parts missing from this kit, need more wire, or are just naturally mechanically-challenged, contact me for 'no-hassle' replacement parts.

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