

Part 5, Attachment 1. Volume Control & Dual Input Option Wiring

Wall of Sound.ca Tubelab DIY EL84 Amp

Skip this attachment if not using a volume control or multiple inputs.

Tools Required:

- Screw drivers
- Sharp knife
- Various pliers
- Soldering iron
- Wire Strippers

Grounding wire assembly:



Retrieve the large grounding lug from the parts kit.

Check that it clears the threaded boss on the volume pot.

Flatten as required as shown above **before** soldering the wire to the lug.

Cut a 500mm (20") piece of green hook up wire.

Strip the end and solder to the lug.

Volume Pot Wiring:

Assemble the lug to the shaft of the volume pot.

Put a drop of nail polish on the threaded area near the shaft.

Assemble the pot to the front panel, drop the washer and nut over the shaft and tighten.

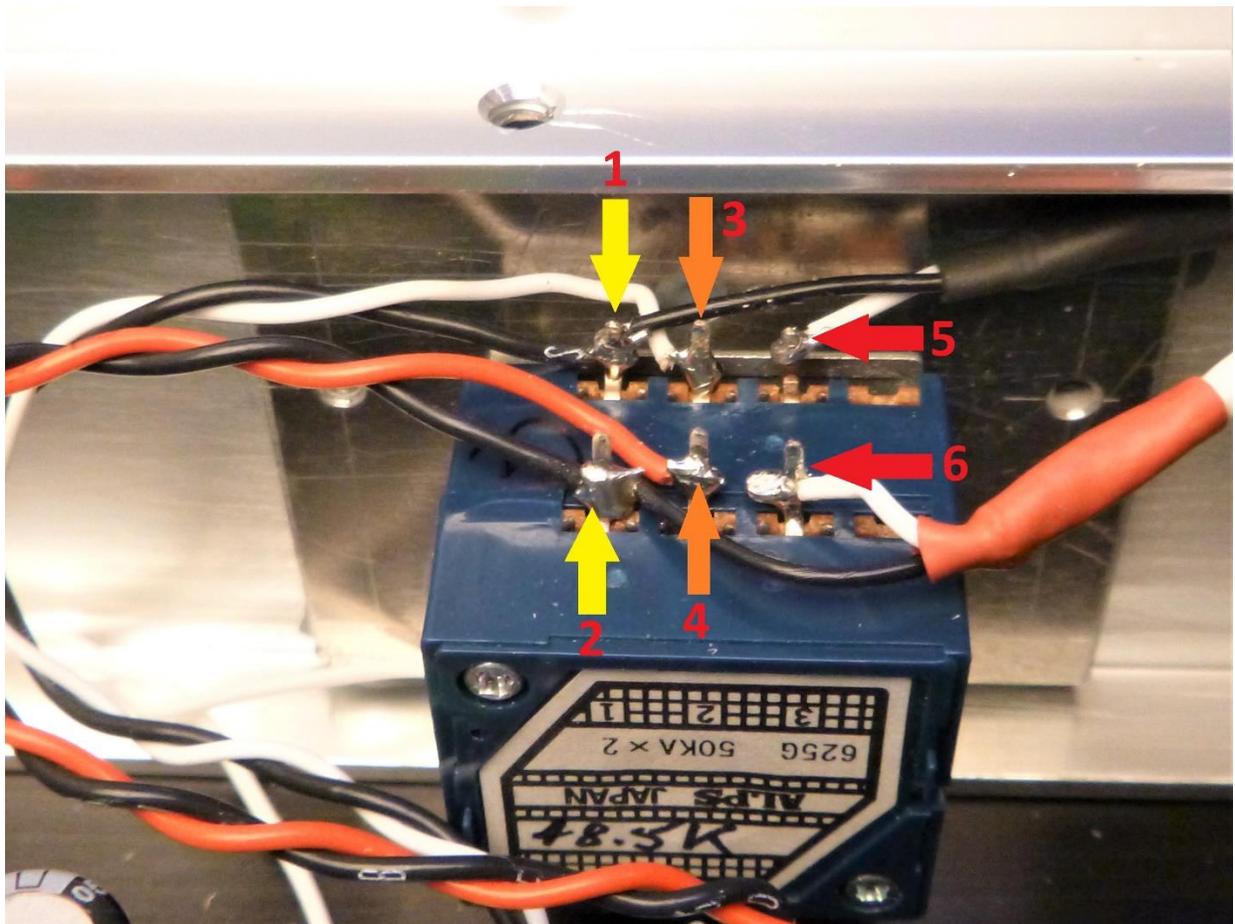
Install the knob onto the shaft.

Cut two lengths of twisted pair wire, one **black-white** and one **black-red**, the length needed will depend on where you have located the volume pot relative to the 5-conductor terminal strip on the front of the board.

Strip 6mm (1/4") from all the ends.

Strip 6mm (1/4") from the ends of wires connected to the input jacks.

Connect the wires as shown below.



Connect the ground wires from the **left** input jack and the **black** from the **black-white** pair to terminal **1** on the volume pot and solder.

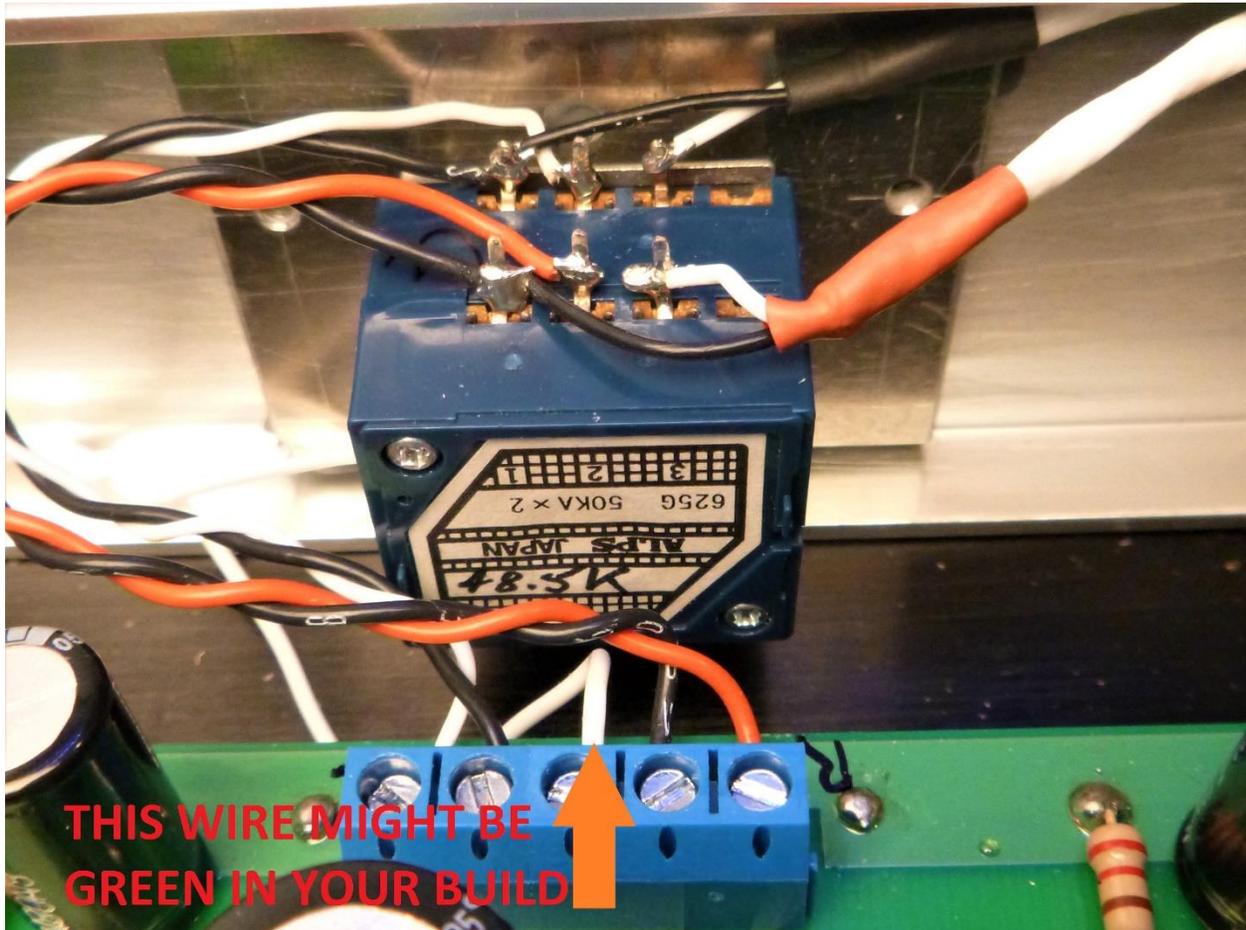
Connect the **white** signal wire from the **black-white** pair to terminal **3** on the volume pot and solder.

Connect the signal wire from the **left** input jack pair to terminal **5** on the volume pot and solder.

Connect the ground wires from the **right** input jack and the **black** from the **black-red** pair to terminal **2** on the volume pot and solder.

Connect the **red** signal wire from the **black-red** pair to terminal **4** on the volume pot and solder.

Connect the signal wire from the **right** input jack pair to terminal **6** on the volume pot and solder.



Melt a little solder on the free ends of the wires from the **black-red** and **black-white** pairs to keep their strands together.

Insert into the terminal block connector as shown above and tighten the screws.

Strip the end from the green wire used to ground the volume pot and front plate.

Attach to the grounding bar on the back panel and solder.

Dual-Input Switch Wiring:

I don't have pictures of this.

If you've come this far, I think you can figure this out yourself.

The switch I've specified is a 4-Pole, Double Throw (4PDT).

The inputs have both grounds and "hot" leads switched.

The switch is located in the signal chain between the input jacks and the volume pot.

Proceed to Part 5, Attachment 2.