



## PAD500 Assembly guide

Please read the “DIY guide” before beginning.  
Print or open the following documents :

- PAD500 Schematics
- PAD500 Components layout
- PAD500 Parts list

### Soldering

All the PCB holes are metallized. It means the connection between the top and bottom pads is already done. The parts must be soldered only from below (unless differently stated).

Use only small diameter solder, 0.5 or 0.7 mm, 1 mm maximum. Use the minimum possible amount of solder. Bad joints are almost always caused by too much solder.

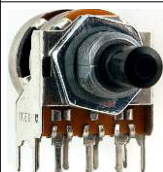
Cut the component leads and pins totally flush with the PCB after soldering. A too long tail could create an electric connection with the side plate.

Here are two excellent introduction to soldering videos:

<http://www.eevblog.com/2011/06/19/eevblog-180-soldering-tutorial-part-1-tools/>

<http://www.eevblog.com/2011/07/02/eevblog-183-soldering-tutorial-part-2/>

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### 1. Potentiometers P1 and P2

Place the bracket on the potentiometer bushing, and attach it temporarily with the nut. Insert potentiometer and bracket into the PCB holes. Solder the central potentiometer pin. Now check that the potentiometer shaft is perfectly parallel to the board. Solder the other pins and remove the nut.

**Warning** : Do not only rely on the bracket being flat on the PCB, it sometimes need little visually made adjustments to get a perfect position.



### 2. Jack connectors

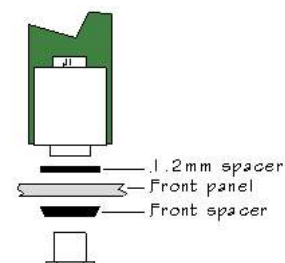
Add CN1 and CN2. The position of the socket is important for a good front-plate matching. It must sit flat on the PCB. Press firmly the socket to the PCB and solder one of the pins. Check position then solder the other pins.

**Warning** : the hole must face outside the PCB ;-)

### 3. Front panel

Before inserting the panel, place one lock washer on each potentiometer shaft and one plastique 1.2mm washer on each jack socket then insert the panel.

Lock the panel into position with the potentiometer nuts and the jack noses.

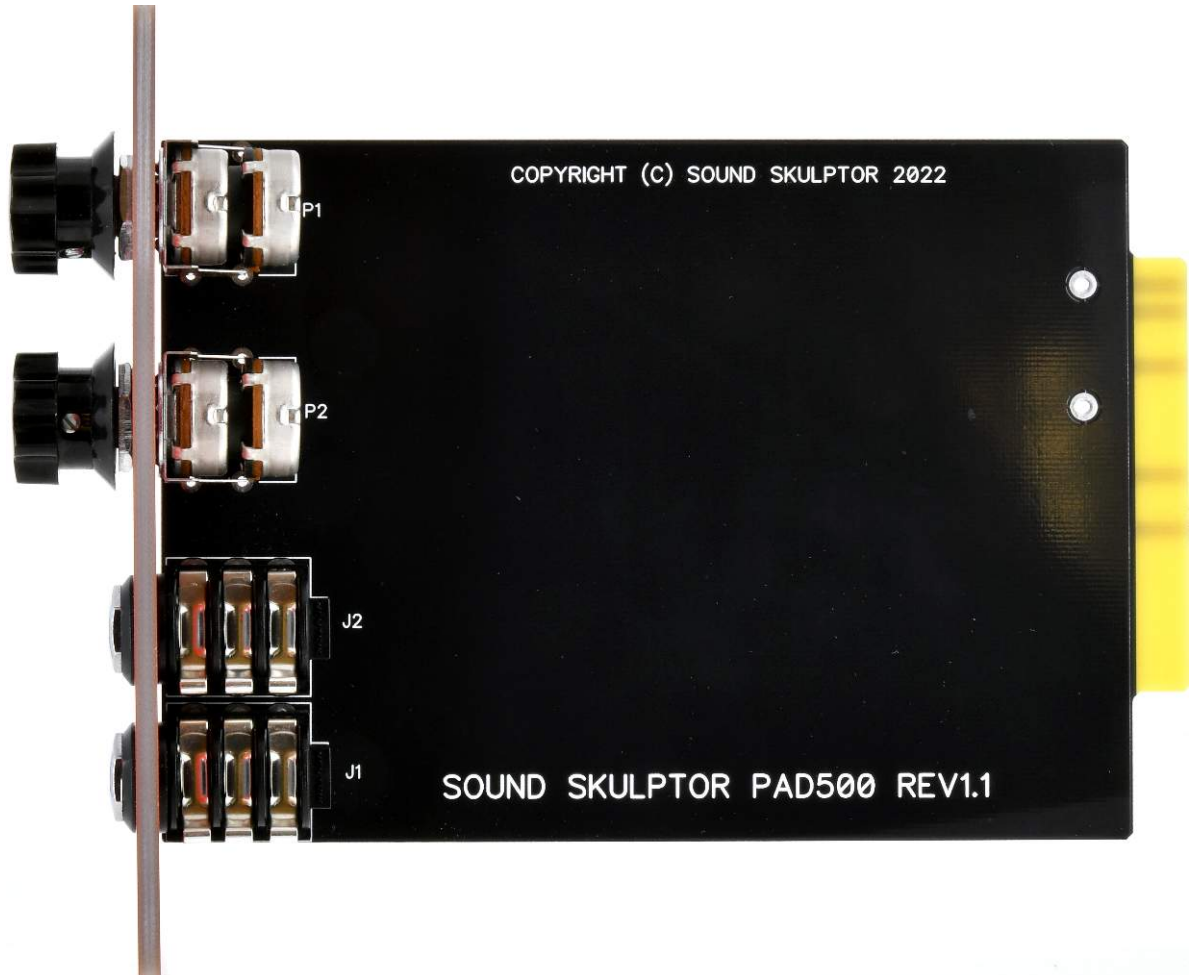


PAD500 Assembly guide – Final assembly



4. Knobs

Attach the 2 knobs to the 2 potentiometers.



5. Congratulations !

You're done !