

## Kitronik Ltd – [Building the Mono Amp Case](#)

### Tools you will need:

Wire cutters/strippers  
A soldering iron  
A small cross headed screwdriver  
A pair of pliers  
A ruler

### Included with your case you should find:

16 x 12mm M3 nut and bolts  
1 x I/O marked rocker switch

- **IMPORTANT**

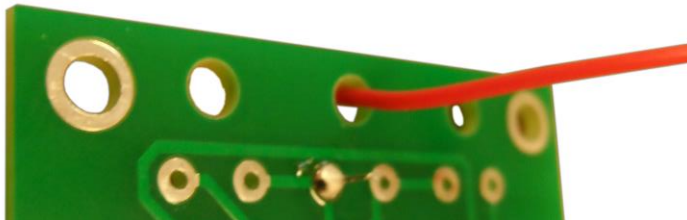
There are a few changes that need to be made to the way the PCB is soldered in order to add the switch. Complete these steps **FIRST** so you don't have to rework the board.

### Adding the switch

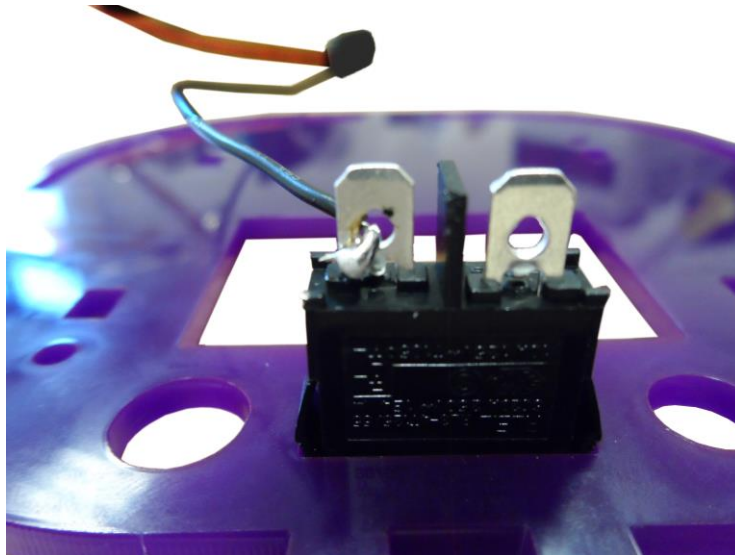
The first thing you should do is push the switch through the small rectangular hole in what will be the back of the case. This piece is almost symmetrical so the switch can go either side.



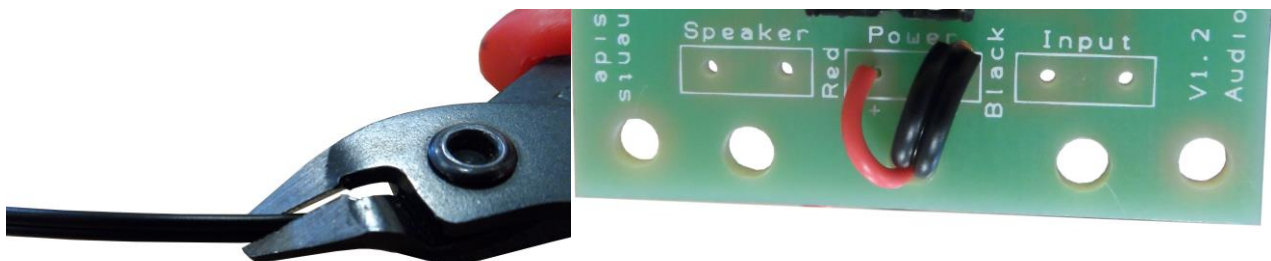
You then need to thread the red wire from the battery clip through the stress relief hole and solder it into the hole marked 'red' in the power section of the PCB.



The black wire from the battery clip should then be soldered to one of the terminals on the switch (it doesn't matter which one).

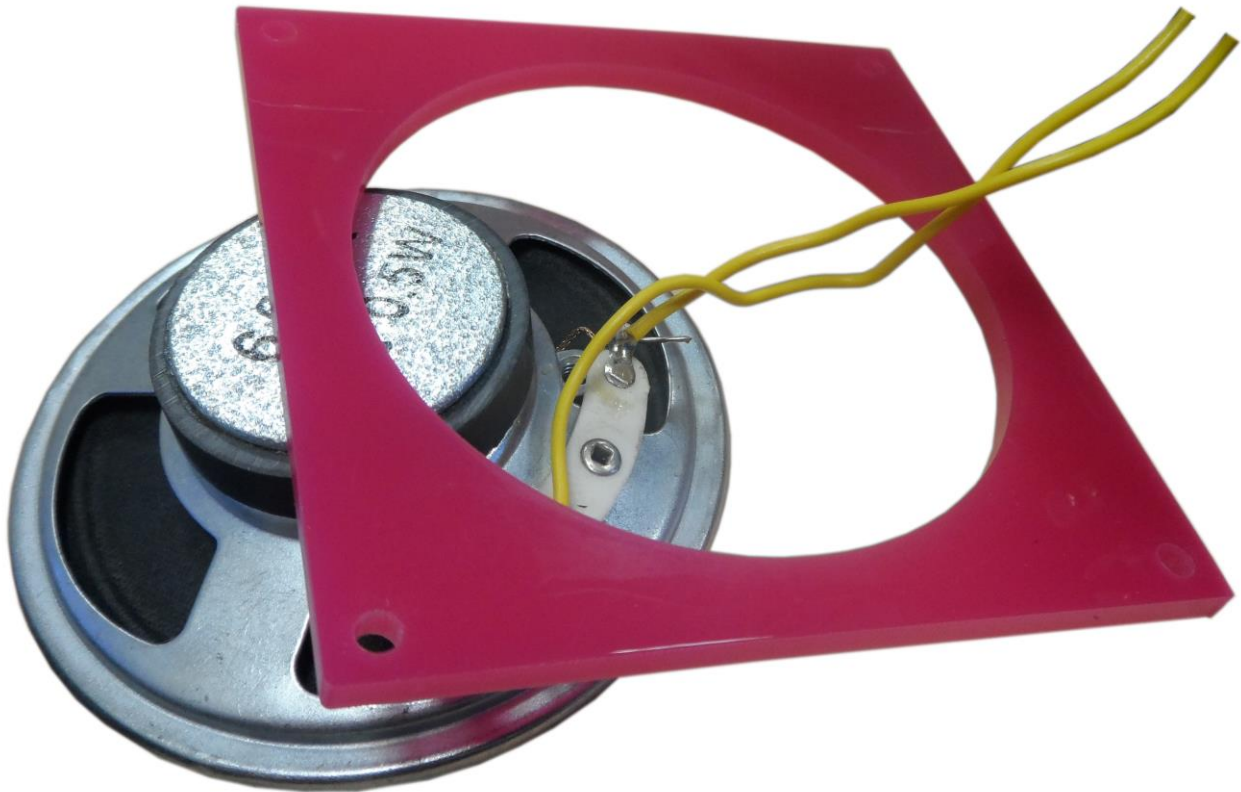


Then using a 12cm length of wire cut from the jack lead you should connect the other switch terminal to the hole labelled 'black' on the PCB, threading it through the stress relief hole first.



## Attaching the speaker

Before soldering the wires onto the PCB, thread them through the speaker holder as pictured below.



## Assembling the PCB

Full instructions explaining how to solder the PCB should be included with your mono amplifier kit. You can ignore the bits about soldering the battery wires in as you have already done it when fitting the switch.

Once your PCB is fully assembled proceed to the section below.

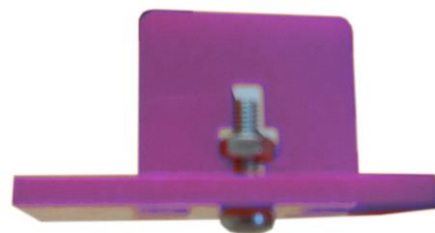
### Step 1

The first thing to do is to secure the speaker to the front panel of the case. Start by placing the front panel flat onto a surface then place the speaker so it is covering the hole, with the terminals at the bottom. The bottom of the panel can be easily identified as it has a small rectangular cut out that none of the other sides have. Place the square with the hole in it over the speaker and fix it in place with the nuts and bolts. You should push the bolts through from the outside so the nuts are on the side with the rectangular piece. Don't over-tighten a later step requires these bolts to be as loose as possible.

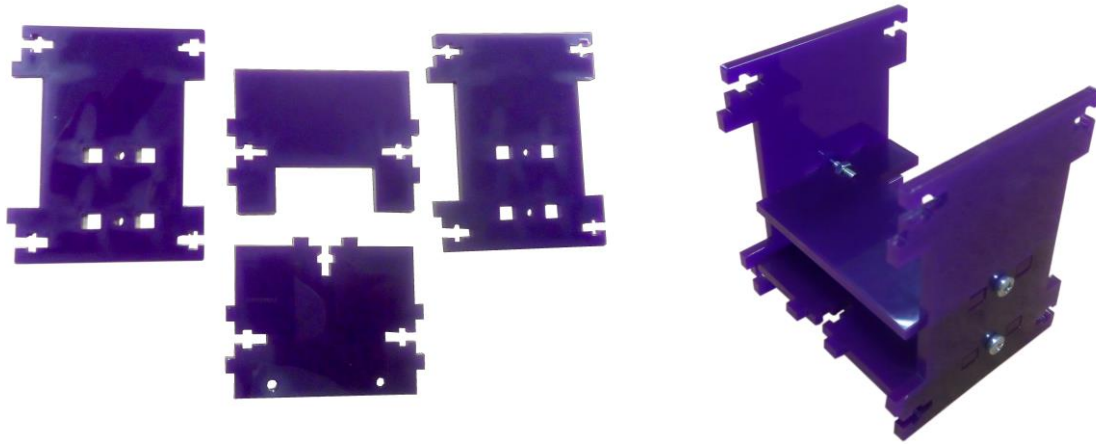


### Step 2

Combine the two shelves with the sides as shown in the images below. Attach the PCB using a pair of nuts and bolts to the underside of the bottom shelf, making sure the capacitors are on the same side as the cutout for the speaker. Different colours have been used to make it easier to see which way around the shelves need to go. The picture on the left shows how the shelves should be fitted and the picture on the right shows how the nut and bolt fittings work.



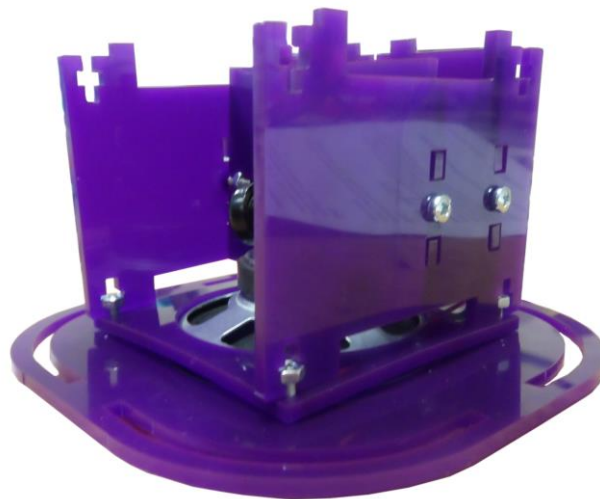
The parts on the left should fit together to make the part on the right.



### Step 3

You will need to loosen the nuts holding the speaker and the bolts holding the shelves in place for this part. Slide the fixing points on the sides over the nuts holding the speaker down. You will have to apply a bit of force to flex the plate that holds the speaker down.

Push the battery lead up through the cut out near the speaker so it rests on the bottom shelf.



## Step 4

Attach the back of the case, lining up the tabs with the slots on the back panel then securing each with a nut and bolt. Don't make these too tight as you still need to fit the outside edge.



## Step 5

Starting with one end of the long flexible side piece, push the tab into the slot at the bottom of the case. This is the small rectangular cutout in the rim. Then push the rest in as you go around the case. Making sure the bottom is in first then the top.



You should loosen the back plate as much as you need so as to avoid straining the side piece as it may crack if you try to force it.



Once a section is fitted properly tighten the back screws slightly to hold it in place as you move on to the next section.

When the side is on properly it should look like this.



## Step 6

Finally the battery cover should be fitted. Attach the small plate to the more central holes in the cover, then put a nut and bolt on the bottom hole. If you push the cover into position, bottom end first then it will hold in place. It can then be tightened with a screwdriver.





Your Mono Amp Case is now complete!

