

Sound artist Yuri Suzuki created these easy-to-follow instructions so you can...

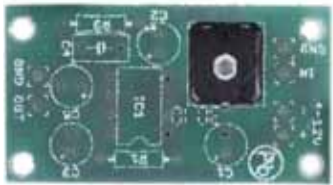
MAKE A SPEAKER

You will need: (all of these items can be found on maplin.co.uk)

- 1 A pair of scissors
- 2 1W audio amplifier
- 3 3.5CM / 1.5V speaker
- 4 A used Red Stripe can
- 5 A pair of wire strippers
- 6 Approx. one meter of audio cable
- 7 A tube of contact adhesive
- 8 PP3 type battery clip
- 9 3.5mm audio jack
- 10 A soldering iron and a roll of solder
- 11 Standard kitchen sink drainer
- 12 A roll of red tape
- 13 A 9V battery



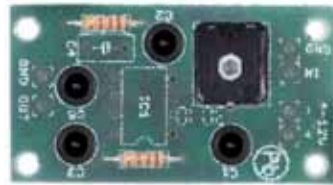
BUILDING THE 1W AUDIO AMPLIFIER:



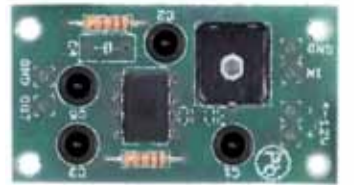
Note: the 1 watt audio amplifier will also come with easy to follow instructions.



Using the soldering iron, attach the semi-conductor and the resonators.



Solder the transistors in place.



Finally, solder in the integrated circuit.

ADDING THE PP3 BATTERY CLIP:



Solder in the PP3 battery clip. Matching the red wire to the (+) positive...



And the black wire to the (-) negative.



Don't forget to attach the battery.

ADDING THE 3.5MM AUDIO JACK:



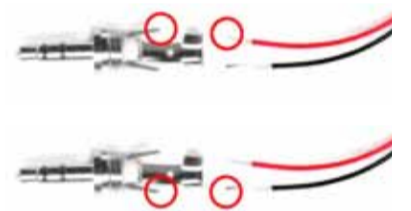
Take the 3.5mm audio jack and unscrew the black plastic casing.



Take 30cm of audio cable and strip both ends.



Feed the audio cable through the casing of the audio jack.



Solder the stripped ends of the audio cable to the 3.5mm audio jack (matching the + & -). Screw the audio jack's casing back on.

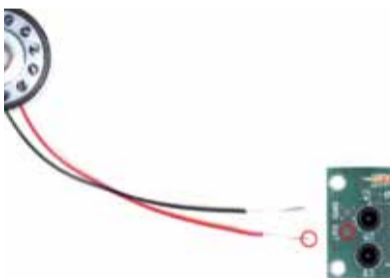
ADDING THE 1.5V SPEAKER:



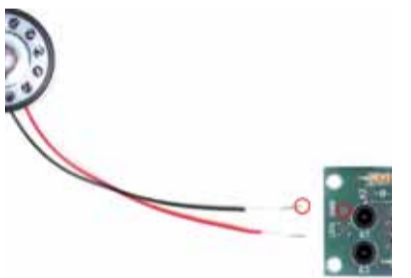
Take 15cm of audio cable and strip both ends.



Solder one end of the audio cable to the 1.5V speaker. (Matching the + & -).



Solder the other end of the stripped audio cable to this part of the 1W amp circuit board.



Again, don't forget to match the (+) positive and the (-) negative.

BUILDING THE SPEAKER'S HOUSING:



Take a used Red Stripe can, rinse it clean and dry thoroughly. Cut a hole (approx 1cm in diameter).



Carefully cut the top off the used Red Stripe can.



Place the circuit board into the empty can, feed the audio jack and some of the audio cable through the hole you made in the side of the can.



Seal the hole with a small piece of red tape.

FINISHING-OFF YOUR SPEAKER:



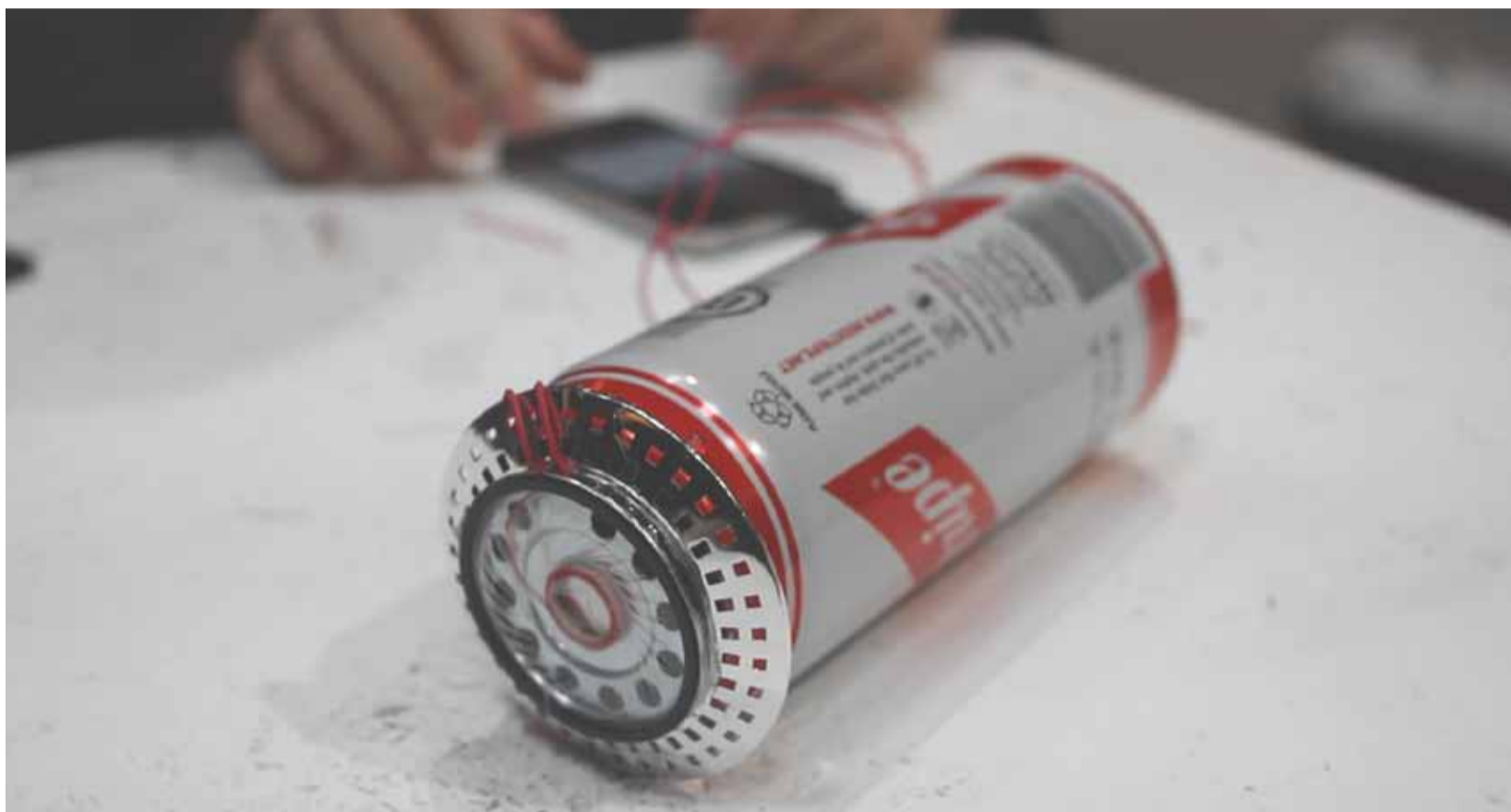
Leave the 1.5V speaker hanging out of the top of the can.

Apply contact adhesive to the rim of the can, as indicated by the red dots.

Stick and hold the speaker in place.

Apply more contact adhesive to the edge of the can (avoiding the speaker) then place and hold the sink drainer on the top of the can to protect the speaker.

USING YOUR SPEAKER:



Plug the audio jack into your mobile audio device, choose a track and press play.



MAKE
WITH A
Red Stripe