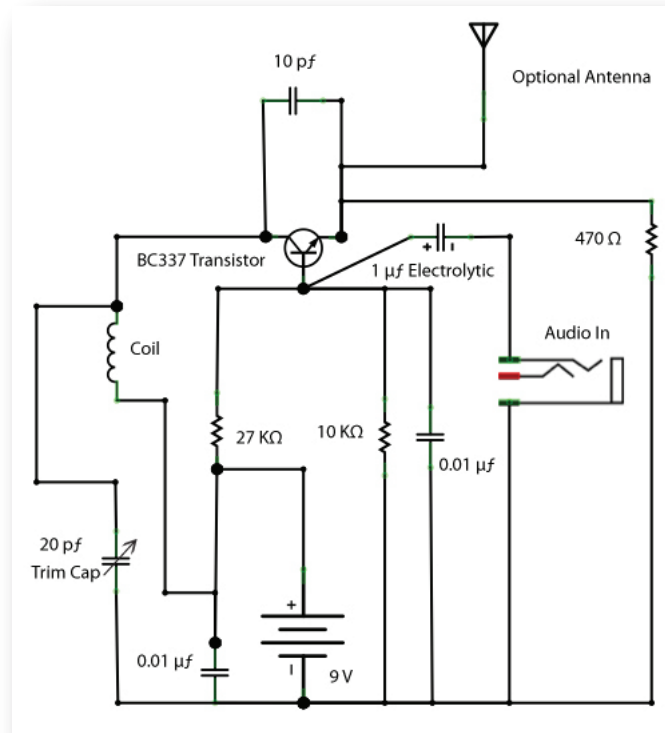


## Warning

Always take safety precautions when building your kit- soldering irons get incredibly hot so never touch the tip and keep away from flammable materials. Never leave children unattended with soldering equipment, or with small components as they can be choked on easily. Components can be sharp, so be careful when handling them. When you trim down the legs of your components, always point them away from yourself and other people. You will also need to be in a well ventilated area before you begin any soldering, your equipment and soldering iron should be kept clean and well maintained.

## Schematic



## Tips for soldering

The components need to be on the blank side of the PCB with their legs sticking through onto the printed side, where the tracks are. When soldering components, be sure to check they are not only in the right holes but the right way round. Components including LEDs, electrolytic capacitors and intergrated circuits need their legs to go in the holes the right way round in order to work correctly. Try to not over heat components by leaving the soldering iron on them too long and avoid heating any plastic or wire insulation with the iron. Use solder containing rosin or flux to raise the tempeprature at the soldering site. Take your time to avoid dry joints or short circuits, a good soldering joint will be shiny and should cover the whole pad without any gaps around the leg.

## Choosing a case

Some components will need to be soldered on after you have prepared the holes in your case, they cannot be fitted from the inside and must have the wires fed through the holes. A Wooden case works well and can be easily drilled to accomodate the kit, plastics are also easy to work. Tins and metal cases can be used however it's harder to drill, it's very sharp and will need to be insulated to stop any short circuits. Whatever material you choose it could potentially produce hazordous dust and airborne matter while you drill or file it - use dust masks or respirators if nessasary, and if you're unsure if the material is safe - don't use it.

When you're done making your kit we'd love you to share your comments and pics with our community - [forum.sonodrome.co.uk](http://forum.sonodrome.co.uk)

For troubleshooting, demos and more information please visit our website.

Sonodrome takes no responsibility for any mishap or injury caused by the construction or operation of our electronic kits, users paticipate at their own risk.