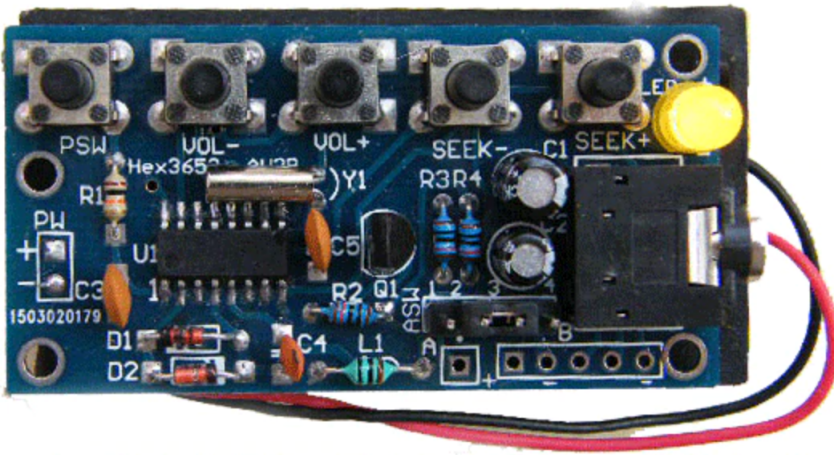


Hippo Bit FM Radio Soldering DIY Kit

<https://www.amazon.com/dp/B08XJZ8KK8>

Thank you for your purchase. We hope you enjoy the product

-- Members of Hippo Bit



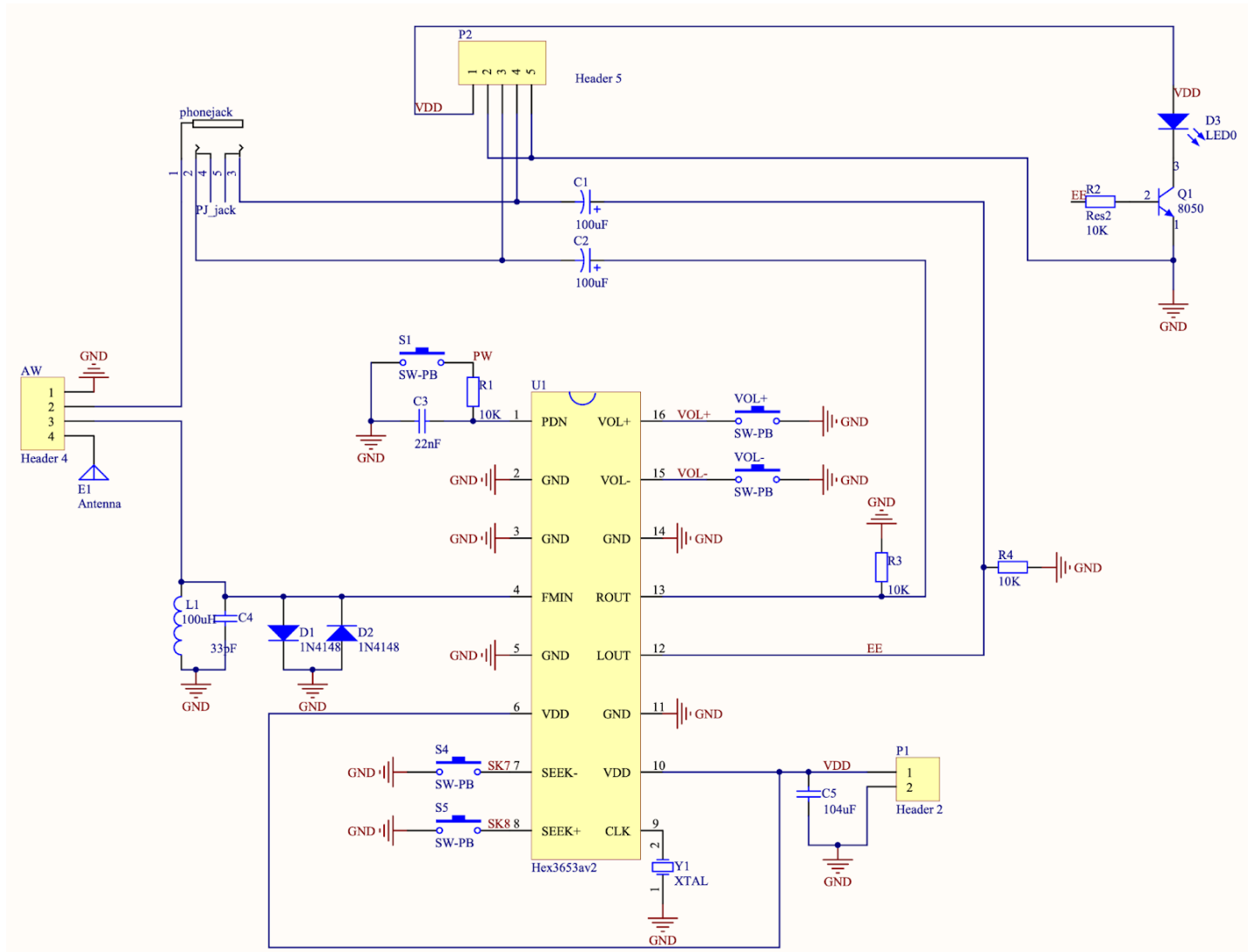
Assemble Instruction

Revision 2021 Feb 24

Table of contents

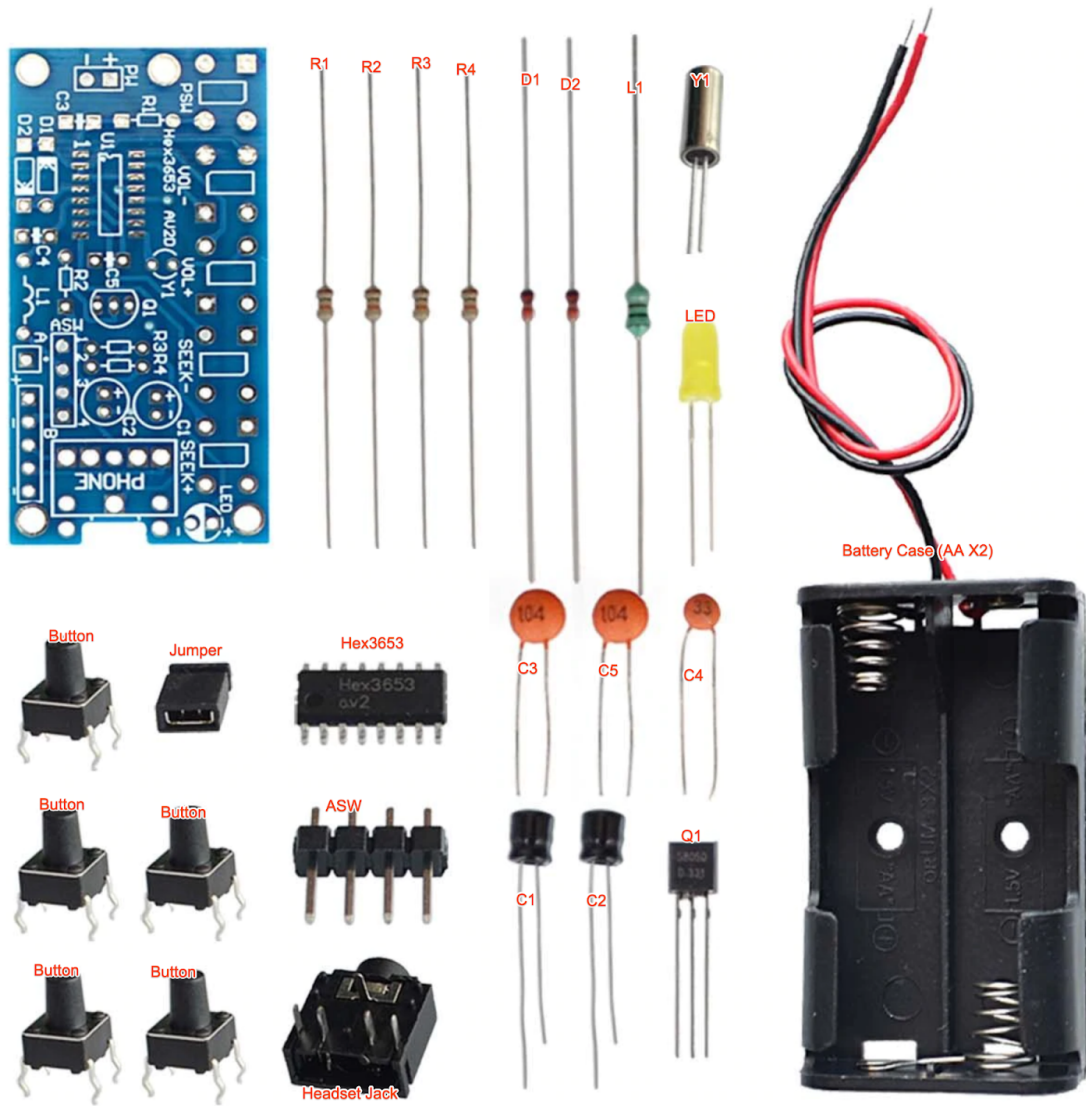
Component diagram	3
Component list	3
Assembly steps	6
Usage	7
Setting antenna	7
Using the radio	7

Component diagram



Component list

In your package, you will see the following parts



On the back of the PCB, you will see the spec of each component listed as the following:

R1=R2=R3=R4: 10K Ohm
C1=C2: 100 uF
C3=C5: 104

C4: 33

D1=D2: 1N4148

Assembly steps

The front of PCB labels where each component should be soldered. For each part described in the component list, find the matching label on the PCB, and solder it with care.

It is recommended to solder the chip first as it is the most delicate part.

- Locate the dot mark on the corner of the IC. The pin directly below it is PIN 1.
- Locate the rectangle pad on the PCB. Pin 1 is marked on the PCB board.
- Match PIN1 of the IC with PIN1 of the PCB drawing and solder the IC carefully.

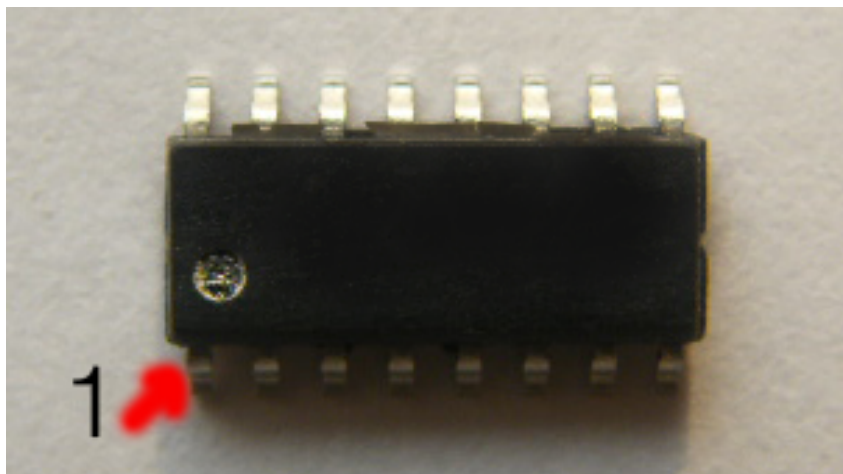


Illustration of PIN1

Once IC is soldered onto the PCB, solder the rest items to the board.

It is recommended to solder small components before bigger ones. Recommended sequence is:

- Resistors
- Inductor
- Diodes
- Crystal
- Capacitors
- Headset Jack
- Triode
- LED
- Push buttons
- Jumper
- Battery Case

Usage

Setting antenna

When the headset is plugged in, it can act as an antenna. Adjust jumper to connect position **2 and 3**.

On the other hand if a separate antenna is desired, connect jumper 1 and 2, 3 and 4 at the same time. In addition, a separate antenna needs to be connected to the PCB.

Using the radio

There are 5 buttons on the radio

- POW: Power button
- VOL-: Volume down
- VOL+: Volume up
- SEEK-: Seek backward
- SEEK+: Seek forward

Power up and adjust volume/channel accordingly.