

Re: 2 Transistor AM Radio

Source: <http://sci.tech-archive.net/Archive/sci.electronics.basics/2008-02/msg00103.html>

- *From:* et472@xxxxxxxxxxxxxxxxxxxxxx (Michael Black)
 - *Date:* 5 Feb 2008 15:35:11 GMT
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"Dave.H" (the1930s@xxxxxxxxxxxxxxxxxx) writes:

On Feb 5, 10:42 pm, "Dave.H" <the19...@xxxxxxxxxxxxxxxxxx> wrote:

On Feb 5, 10:34 pm, Chris <cfoley1...@xxxxxxxxxx> wrote:

On Feb 5, 4:11 am, "Dave.H" <the19...@xxxxxxxxxxxxxxxxxx> wrote:

Not sure if this is the correct place to ask, but here goes... I've found plans for a simple two transistor AM radio receiver, but I'm not sure how the ferrite loop antenna is connected to the radio. I'm not at all good with schematics, I can understand most of it except for the ferrite antenna bit. I would appreciate any help on this.

<http://www.techlib.com/electronics/crystal.html#Simple2transistor>

Hi, Dave. If you look at the picture, you can see 4 turns of yellow insulated wire around the loopstick. As shown in the schematic, one wire is connected to the base of the first transistor, and the other is connected to the + end of the 47uF cap and the 270K ohm resistor.

Re: 2 Transistor AM Radio

You've also got two very thin magnet wires (one red, one blue in the illustration) which go to the tuning capacitor.

The idea is, you make the 4 turns with your own wire around the existing loopstick, which you've scrounged from a garage sale transistor radio along with the tuning cap. Be careful not to break the wires coming from the loopstick -- use a tweezers and a lot of care when you pull it.

Hope this has answered your question. The radio shown is fairly simple, and shouldn't be too difficult to build. If you're going with trying to build on a real piece of wood board, use pine instead of oak (softer, easier to work and pound nails), and use brass nails (most nails don't accept solder). If you can find someone with a little electronics experience to help a bit it should be easy.

Good luck
Chris

I'm building it in a plastic project box, for portability reasons. Should a 60–160 pF tuning cap work in this radio? I'm also wondering how to hook up a 1 kohm – 8 ohm audio transformer so I can use my iPod earphones with it. The transformer has three wires on one side, and two on the other from what I can see in the picture.

The ferrite rod antenna I'm planning to use has four wires, how would I hook this up the the tuning cap?

Chances are pretty good it already has the needed pickup loop.

Likely one winding is quite large, and will resonate with the variable capacitor. And then a small winding of a small number of turns to couple

Re: 2 Transistor AM Radio

the signal out of that resonant circuit.

Michael

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