

# How to Operate Niftymitter 0.24

by [royshearer](#) on December 11, 2009

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## **Intro: How to Operate Niftymitter 0.24**

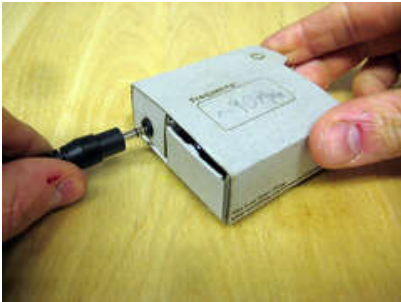
This instructable will tell you how to operate Niftymitter 0.24, a small open source FM transmitter. More information on the design can be found at [www.openthing.org/products/niftymitter](http://www.openthing.org/products/niftymitter).

This transmitter is in development and has not yet been approved by any regulators. It is a low power transmitter and works over a very short range - please ensure that by using it you are not interfering with any other nearby transmitters.



### **step 1: Plug in a source**

Plug in any audio source into the 3.5mm jack socket. Set the volume on your source as low as possible.



### **step 2: Switch on**

Switch the transmitter on.

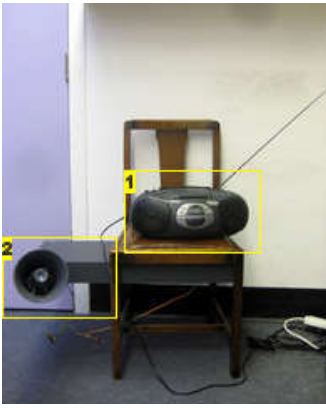


### **step 3: Tune in**

Make sure your transmitter and radio receiver are at least 2m apart to avoid tuning in to a harmonic frequency. Switch on your radio and tune the radio in to the transmitter. This should be broadcasting on a frequency between 88 and 91 MHz FM, transmitting silence.

It is difficult to be accurate here as: a) the frequency can vary depending on atmospheric conditions and b) the scale on your radio might be calibrated differently to the scale on my radio, so would give a different reading of what frequency it is receiving on.

If you are having difficulty tuning in, you may need to retune the transmitter, which is described in step 5.



#### Image Notes

1. radio receiver
2. speaking chair - not needed!

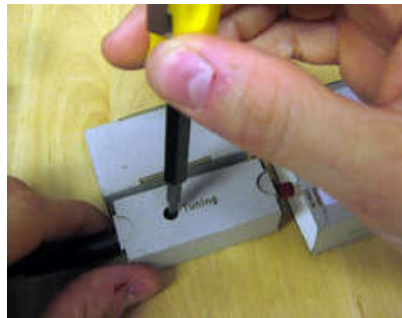
#### step 4: Turn it up!

Carefully turn up the volume on your audio source to a comfortable level. If you turn up too loud, the signal will sound distorted (it really doesn't need to be very loud).

#### step 5: To retune Niftymitter

Slide out the circuit box.

Use a small 3mm slot headed screwdriver to adjust the 'trimcap' This is a small brass coloured component accessed by the hole marked 'tuning'. Clockwise for up, anticlockwise for down, it only requires very fine adjustment.



#### step 6: To replace the battery

Slide out the battery tray. Unclip the battery from the PP3 clip, recycle/recharge and replace.



