

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.

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.

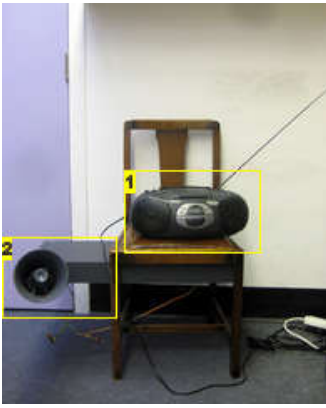


Image Notes

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.



