



Retro Radio Shop “MicroMitter” Instructions

Transmit to that old antique or vintage radio with your very own, in house, AM radio station! Plug your phone, CD player, tablet, Bluetooth adapter or other media device into the Retro Radio Shops “MicroMitter”, and get ready to transmit old radio shows, classic tunes, or whatever you desire, to your old gem. With the decreased number of AM stations available today, this device is a must. Live rural and don’t have any stations within range? Even better; start your own with the MicroMitter)))))))!

Before using this device, be sure to refer to your local laws with respect to radio frequency transmission. With a short wire antenna, this device will only transmit at a very low level and a number of feet. Longer antennas will transmit for blocks so be cautious! Use at your own legal risk.

First, remove the 4 screws holding the back cover in place and install a 9 volt battery in the MicroMitter, if not already shipped with a battery. Be careful not to dislodge any wiring or components when doing so. Then plug your audio device, such as a smartphone, tablet, iPad, CD player, or Bluetooth adapter etc. into the 3.5 mm “Audio in” jack. Be sure audio is playing on it. With a short antenna wire attached to the MicroMitter, place it right next to the receiving radio. If your set has an external antenna wire or terminal, bring its wire close to the MicroMitters antenna wire. If your set has an internal loop antenna, bring the MicroMitters antenna wire close to the receivers loop antenna or back of the radio. The closer the better and ideally within a few inches. Tune to roughly 1000 KHZ with volume about 1/2. Power the MicroMitter on. Then fine tune the radios tuning selector for the clearest signal. You may need to experiment with different lengths and positioning of the antenna. Acceptable results may even be achieved with the transmitter next to the radio without an antenna wire. If you receive a loud hum or squealing, reposition the transmitter or antenna wire. If the audio is distorted, it is likely over modulated. In this case, you may need to adjust the volume on the remote audio device to a lower level. While the signal will be less than high fidelity, it should be clean and free from distortion. If you plan on locating the MicroMitter in a location remote from your receiver, like across the room, you will need to use a much longer antenna. Again, it will work best within inches

of the radio receiver. (If the bluetooth module shows as connected but stills plays only on your media device, press the Bluetooth modules button twice and it will toggle from your media device to the bluetooth module.)

Note on signal strength:

The goal is to keep the antenna wire as short as possible giving the best signal reception. If you use too long of an antenna, your signal may be in contravention of local laws. If it's too short, or too far away, your signal will be weak.

Bluetooth Adapter Use:

First, be sure to set the mode to RX and charge the bluetooth module. There is a charging cord shipped with your kit. Plug the smaller micro USB end into the module and the other end into any USB charger or computer port. When the module is taking on a charge, it will flash red. When complete, it will go out. Plug the 3.5 mm "Audio In" aux cord into the the Bluetooth module. Hold the power button down for 3 seconds and it will flash blue. It is now in pairing mode.

At this point, you are ready to pair your Bluetooth device, as per its manufacturer instructions. The Bluetooth module will show as "B28" or similar. If a 4 digit code is required, use 0000. You should hear a confirmation of successful pairing through the radio speaker when complete and the led will be steady blue.

FM Module Use:

Try to keep the FM module away from the Micromitter itself. It is not recommended that the male/male 3.5mm aux adapter be used with the FM module and use of the included aux cord is the preferred method of connection. Otherwise, the Micromitter transmission may interfere with the FM modules reception. The aux cord is utilized as the FM module antenna. Therefore, if it is extended and located away from the Micromitter, or its antenna wire, reception will be optimized. You may see this, especially, if you are located in a rural setting or with weak or distant FM stations. If you encounter this, simply move the aux cord as far away from the Micromitter or its antenna wire as possible.

Again, thanks for your purchase and if you have any questions please contact us at info@retroradioshop.com