

README First – WSPR Kit

Thank you for purchasing the WSPR kit. I trust you'll be happy with it. I will do my best to ensure that you are. Please contact me (nd8i@arrl.net) if you run into problems. Below are the steps to assemble and operate your kit.

This page was intended as a starting point. The remainder of the instructions are downloaded from the following website -

WsprWithoutTears.com

In addition to the WSPR kit, you'll also need the following to have a complete transmitter -

1. **Raspberry Pi 2 Model B or Raspberry Pi 3** (I'm referring to the Raspberry Pi as *rPi* from here on out). If you're buying an rPi for this project then I recommend getting an rPi 3. The cost is the same as for an rPi 2 and it has built in WiFi and faster processor ... One source is MCM (<http://www.mcmelectronics.com/product/83-17300>). I have no connection with MCM.
2. **2 amp power supply w/micro USB connector**. This plugs into the micro USB connector of the rPi. MCM is a possible source (<http://www.mcmelectronics.com/product/28-19336>). A word of caution: don't cheap out on the power supply. A weak power supply will cause intermittent problems that are **very** hard to diagnose. Make sure the power supply will deliver at least 2 amps. This is cheap insurance.
3. **Ethernet cable**. You need to connect the rPi to your network over Ethernet (wired connection) for initial setup. You can switch to WiFi after that.
4. **WiFi USB dongle**. You only need this if you're using an rPi 2 and you want to use WiFi. Here is one WiFi dongle that I've used successfully: http://www.newegg.com/Product/Product.aspx?Item=N82E16833315091&cm_re=WiFi_usb_-_33-315-091_-_Product.
5. **Soldering Iron and solder**. A small tip iron with adjustable temperature is good. Rosin core solder only.
6. **DVM**. You'll need a digital voltmeter to make adjustments and verify resistance values.
7. **10 lb hammer**. (Just kidding, a 3 lb hammer will work just fine for those delicate adjustments ;-)

Download the *Amplifier/Filter Quickstart Guide* and *Antenna Quickstart Guide* from the website (WsprWithoutTears.com) for instructions on building the kits.

Happy building and WSPRing!

73,
Bruce Raymond/ND8I