



## SRPT-02 Troubleshooting Guide Updated 4/05/24

### **My repeater won't power on.**

When you first get your repeater, it will have the front buttons locked in software. To unlock press the reset button once, located under the top plate next to the USB connector. Another common issue is a low battery. Always fully charge your batteries in the repeater and the radio prior to use.

### **The repeater is being triggered for no reason.**

The SRPT-02 can activate if a weak signal or noise on the channel opens the carrier detection circuit on the radio. You can usually solve this by adjusting your radio's squelch setting. Adding CTSS tones for your radio will also help prevent a weak signal from triggering the repeater. There is also a setting on the repeater, within the Web GUI called "Carrier Detect Delay". This is the amount of time in ms that the repeater will wait to trigger after a carrier is detected by the radio. You can adjust this setting if you are in a noisy environment.

### **My radio is connected, and nothing is happening.**

Certified compatible radios include Baofeng UV-5R, Baofeng UV-5G, Baofeng UV-S9 Plus, and Quan Sheng UV-K5, and TIDRADIO TD-H8. It's important to note that compatibility depends on specific voltages and signal levels; connecting a non-compatible radio may cause erratic operation or damage to the repeater.

### **The charge LED is not coming on while charging.**

You must use a 5V USB 2.0 charger for the SRPT-02 to charge properly. The SRPT-02 has a USB 2.0 charging system. We make use of a USB C connector for ease of use and durability, but electrically it's USB 2.0 compatible.

### **No audio is heard on playback, just the Morse Code identifier.**

Check the volume level on your repeater radio. Please adjust the volume level to 70-80% to start. Some radios need to be slightly higher, and some need to be lower depending on the make and model of your radio. There is an AGC circuit built into the repeater so this level should not have to be finely tuned.

### **DTMF tones are not enabling / disabling my repeater.**

Check the volume level on your repeater radio. Please adjust the volume level to 70-80% to start. Some radios need to be slightly higher, and some need to be lower depending on the make and model of your radio. There is an AGC circuit built into the repeater so this level should not have to be finely tuned.

### **Everything is working with xyz radio, but the audio sounds over modulated or too weak.**

The repeater was designed and tested with the UV-5R radio. The UV-5R has an AGC that allows for a varying audio level to its microphone input. When we assemble the repeaters, we adjust a potentiometer under the face plate labeled OUT-ADJ. We try to set this to the middle of the range, and for the most part no further adjustment is needed. When working with other radios, you might have to adjust this slightly to get the correct audio level to the input of your radio. Unfortunately, disassembly of the repeater is needed, and you will need a hex key to do this. Keep in mind that the potentiometer only turns from 11:00 counterclockwise to 2:00.

Also, as far as the audio input from the radio to the repeater, this is controlled with the volume adjustment on the radio. We've found with the UV-5R 70-80 percent works best. We have an AGC circuit built into the repeater, so this adjustment usually does not need fine tuning.

## **Other issues**

If you are having other issues, you can press the reset button once, located under the top plate next to the USB connector. You may also reset the repeater to factory default settings. To do this, follow the steps below:

1. Power on the repeater
2. Press and hold the Setup button for approximately 7 seconds

You will see all of the LED's flash twice indicating that the repeater is reset and ready for use.