

# WSPR

WEAK SIGNAL PROPAGATION REPORTER

## How to use iWSPR Radio connection cable examples

Available on the  
**App Store**

IW2MVI · IZ2XCV

<http://subdimensions.com>

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# How to use iWSPR

## Instructions

iWSPR is really easy to use: just insert your Callsign and Locator and then change the Power and the Band in relation of your working condition.

You had to set your radio always in USB mode and dial the frequency reported just below Band.

You can also change the TX Frequency, randomly change it after every TX, set the TX Probability or force the next TX.

Once you are ready click Enable TX. The button will become yellow and then red when transmission is in progress.

To avoid distortion and overload of your radio keep the iPhone audio level as low as possible.

You can find more info about WSPR on the [official site](#).

The screenshot shows the iWSPR app interface on an iPhone. At the top, the status bar displays signal strength, 3 ITA, Wi-Fi, 14:39, and 19% battery. The app title is "iWSPR" with an "Info" link. The settings are organized into sections: USER (Callsign IW2MVI, Locator JN45), POWER (37dBm 5W), BAND 30M (10.138,700Mhz), TX FREQUENCY (10.140,200Mhz, Shift 100Hz / 1500Hz), and TX PROBABILITY 20%. There are sliders for Power, Band, and TX Probability, and checkboxes for Random Hopping and Force Next. A large green "Enable TX" button is at the bottom.

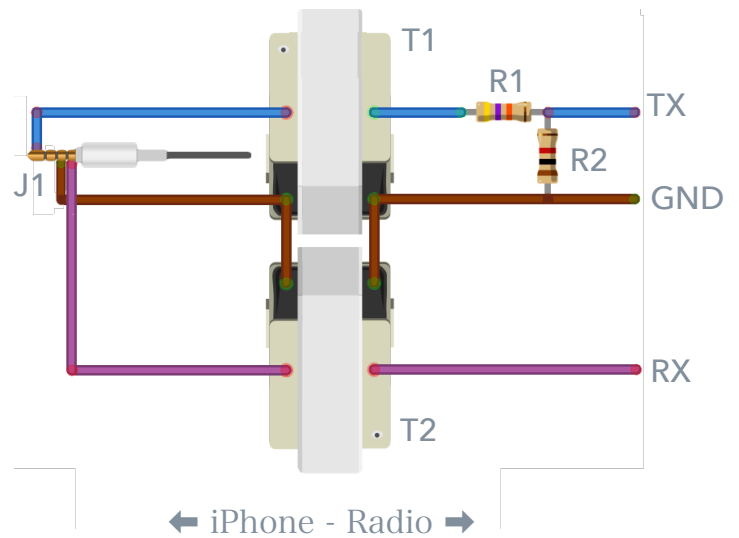
## Time Sync

One of the most important thing for having success with WSPR is the timing. The iPhone do a great job in this way but sometime is better to check and, eventually, re-sync it with a [NTP server](#).

This can be done in a really easy way: tap on "Settings", "General" and then on "Date & Time". Switch off "Set Automatically", wait a few seconds and then switch it back on. If you want to check how good is your device time sync, you can use the free App [Emerald Time](#).

# Example for Radio with VOX

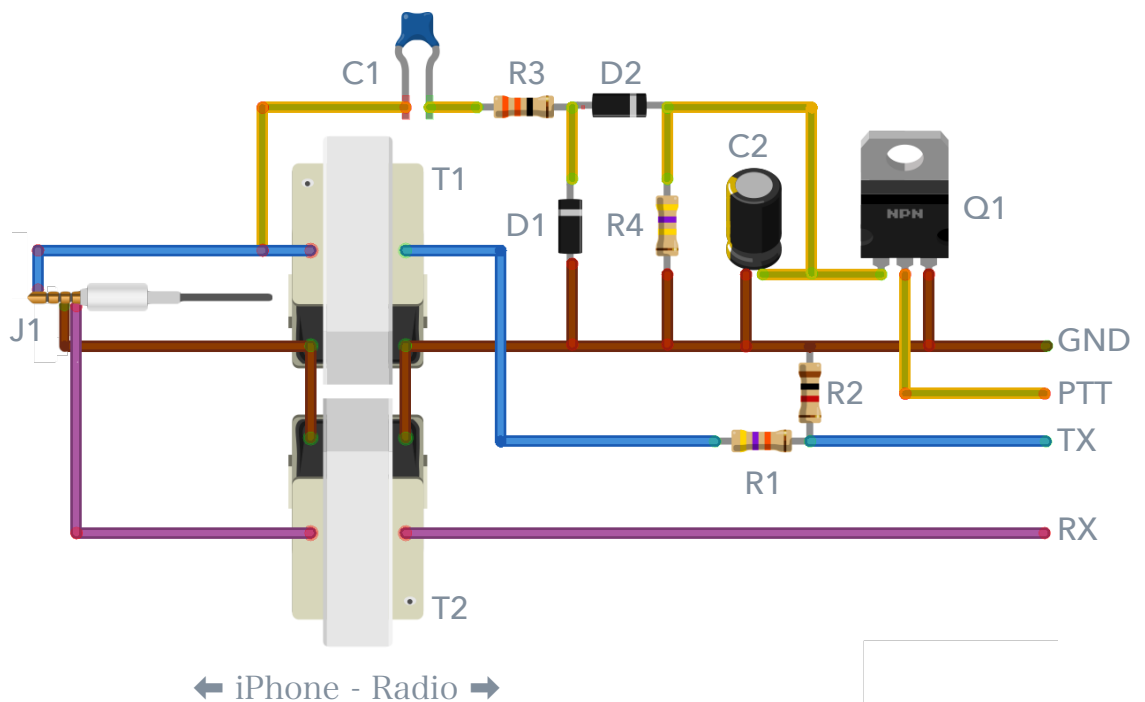
- T1, T2 Audio Transformer 600:600  $\Omega$
- J1 Audio Connector 3,5mm 4 Contacts
- R1 47 K $\Omega$
- R2 1 K $\Omega$
- CON Connector to radio, check your manual



## Highly Recommended!

Put a small Ferrite Core just before J1.

# Example for Radio with PTT



- T1, T2 Audio Transformer 600:600  $\Omega$
- J1 Audio Connector 3,5mm 4 Contacts
- R1 47 k $\Omega$
- R2 1 k $\Omega$
- R3 33  $\Omega$
- R4 470 k $\Omega$

- C1 0,33  $\mu$ F
- C2 5  $\mu$ F
- D1 BAY72
- D2 BAY72
- Q1 IRF540
- CON Connector to radio, check your manual