N8PIC QRP MICROPHONE

ASSEMBLY MANUAL

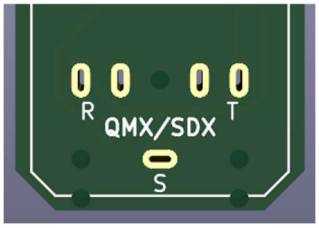
Please read the instructions thoroughly and watch the assembly video before assembling your microphone. I do not take any responsibility for damage caused by self-assembly.

STEP 1: AUDIO JACK

If you are using an audio jack with only 3 pins, fill the unused holes with solder. This will prevent any coating applied to the back from dripping through the holes and clogging the audio jack.

Now, choose which configuration you need for your radio. The sections below describe the connections.

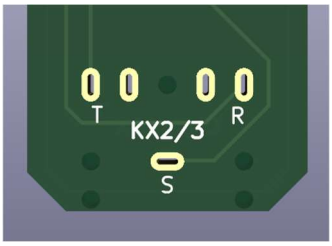
<u>Configuration 1:</u> QRP-Labs QMX, uSDX, truSDX



The audio jack should be installed on the front side of the board with **"QMX/SDX"**.

This will connect the **TIP** of the audio jack to the PTT button, and the **RING** to the electret mic element. Solder all pins from the opposite side.

<u>Configuration 2:</u> Elecraft KX2, KX3



The audio jack should be installed on the back side of the board with **"KX2/3"**.

This will connect the **TIP** of the audio jack to the electret mic element, and the **RING** to the PTT button. Solder all pins from the opposite side.

STEP 2: PUSH BUTTON

The push button should be installed on the front of the PCB. Insert the legs of the button and solder from the back side. Solder all 4 pins from the opposite side.

STEP 3: ELECTRET MICROPHONE ELEMENT

The mic element is polarized, meaning that the + and - sides must be in the correct place.

On the back of the microphone element, you will see that one of the legs has 3 lines connecting it to the shell of the microphone. This is the **negative** side. Insert the mic into the PCB matching the silkscreen labels.

You can also use a digital multimeter in continuity mode to find which leg is electrically connected to the shell. This will also be the negative pin.

STEP 4: FINISHING TOUCHES

Trim all soldered pins on the back of the board.

Cut a piece of electrical tape to cover the soldered contacts on the back. This will protect your fingers and prevent any shorts. Finally, place the foam cover over the top of the microphone.