



Morse Code Iambic Paddle Practice Oscillator

Background Information

This practice module allows the user to gain proficiency with a paddle (squeeze) keyer commonly used to send properly structured Morse code dits and dahs depending on the paddle activated. Additionally the sending of alternate dits and dahs sequentially is possible by squeezing both paddles together.

The module supports a wide speed range and a clear output tone that can be fed directly to a speaker without the need for further amplification.

Basic Operation

When reading this we recommend also referring to the overall layout photo included in this document to allow you to become familiar with the unit and its features.

Basic operation involves first connecting the key and a speaker to the appropriate 3.5mm jack on the top edge of the PCB. After these connections are made power can be connected. A built in regulator means that a wide input voltage range is accepted, any DC voltage from 12 – 20 VDC can be used. The power jack is the common 2.1mm barrel type, with a center positive. The Barrel jack is also on the top edge.

Layout photo



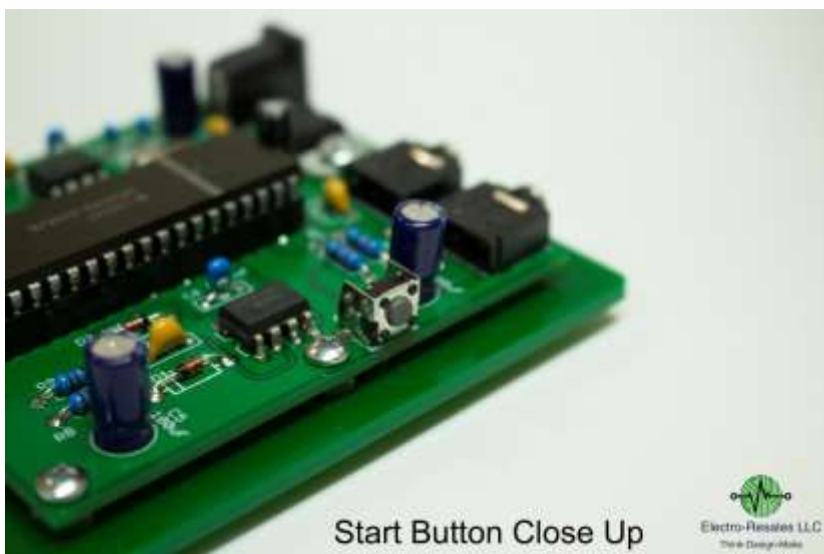
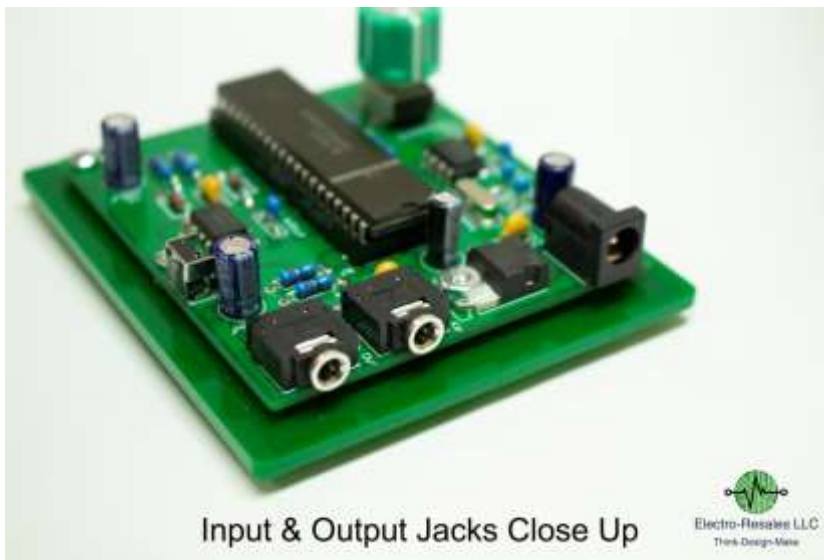


After connecting power to the unit, a short beep will be heard, this indicates the unit has initialized correctly.

To start using the oscillator, adjust the speed control to the 9 O'clock position using the knob pointer line and then briefly press the start button on the right hand edge of the PCB. This button is only used to start the unit and will not be used again until power is cycled.

Once this step has been completed the keyer is ready to use. Send some practice code and adjust the speed control to suit your desired speed. Speed increases with clockwise rotation of this control.

These 2 photos show the connectors and start button in close up for reference;





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Troubleshooting

In the unlikely event that you have a question or encounter a problem, refer to these notes first and please contact us at steve@electroresales.com if you still have issues.

1. No operation or audio.
 - a. Check the power source is actually providing 12VDC or more
 - b. Has the start button been pressed?
2. I want to swap the paddles output.
 - a. To do this either change over the cable connections at the keyer (if possible)
 - b. Or swap the connections at the jack end (more difficult)
3. I want to change the keyers 'weight'
 - a. This is not possible, the output is set to 3:1 (a standard weighting)
4. Can I use a 9 volt battery for portable operation?
 - a. It is possible to use a 9 Volt battery but continuous operation will drain the battery quite quickly, we recommend a power supply be used.
5. Do you sell power supplies for this unit?
 - a. No we do not, many suitable types are available via eBay or Amazon