



Quick start guide: Iambic Practice Oscillator with amplifier

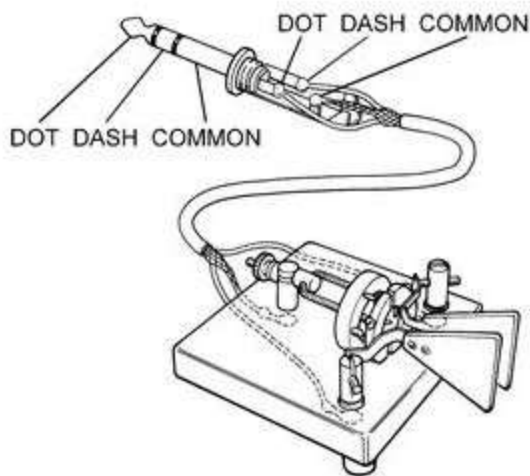
Basics

The combo unit is designed to provide an easy to use practice oscillator for use with twin paddle style keys. The unit has the following features:

1. Speed adjustable code generation (5-40WPM +/-)
2. Iambic A or Iambic B mode selection
3. Proper spaced dit/dah formation
4. Volume control from 0dB to 100dB (approx.)
5. Ability to set paddle direction for 'normal' or 'reverse' paddle operation

1st Use

Initial set up is very easy, a paddle key with 1/4" jack is required with the paddles connected to Tip – Ring – Sleeve, as shown here;



Typically dot is connected to the Tip and Dash to Ring with the common to the sleeve.

(This image © Yaesu FT817 Manual)

The orientation of the paddles can be changed by altering the headers located to the rear/left of the unit. Using pliers or tweezers remove the red shunts and move them to the opposite header pair, the shunt locations must match.

Insert the key jack into the 1/4" jack socket marked 'KEY' and a power supply with a 2.1 mm center positive plug into the jack marked 'DC IN'. Power should be between 9-12VDC @ 0.15Amp. Connect a speaker (4 -16 Ohms) to the 3.5mm jack on the rear edge of the PCB. Adjust the Volume control to the 9 o'clock position and operate the paddles, correctly spaced code should be heard. Adjust the 'Volume' control to suit your desired level.



Changing settings

Refer to the picture below of the unit when reading these instructions.



The CMD push switch (located on the left edge of the PCB at the front, is used to access the more advanced features of this oscillator; this switch is pressed once to activate 'Command Mode' as explained below.

Change the Sending Speed

Speed is changed via the paddles and is accessed by first pressing or pushing the 'CMD' button. The oscillator will respond with a Morse code 'C' indicating it is in Command mode and waiting instructions. To increase the speed by 1 WPM tap the dash paddle to send a 'T' in Morse. Do not just press the paddle to send a string of code, each tap followed by a space increases the speed by 1WPM, to decrease the speed tap the Dot paddle to send an 'E' in Morse, again only send tap one at a time, with one tap decreasing speed by 1WPM. When finished press or push the CMD button to end this Command session, the unit will respond with a Morse 'D' for done.

Setting Iambic Mode

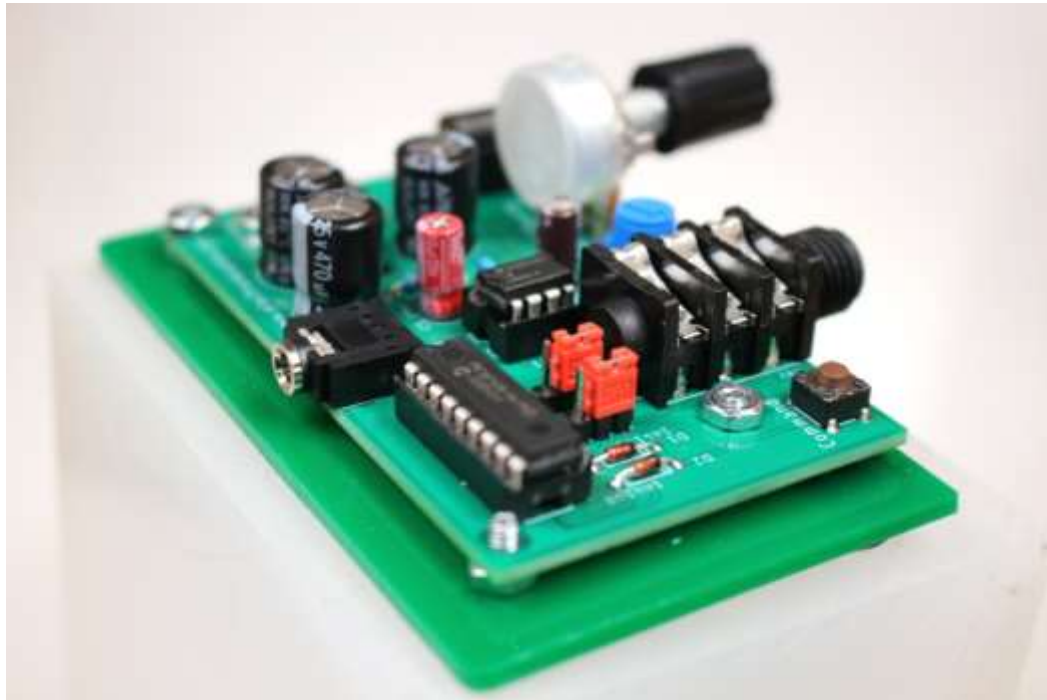
Press or push the 'CMD' button the unit responds with a Morse 'C', using the paddles send an 'A' to set iambic A mode or a 'B' to set iambic B mode. If the command is accepted the unit will return an 'R' for roger or a '?' if the input was not understood. Press the 'CMD' button again to exit, the unit will respond with a Morse 'D'.



Changing paddle direction

Refer to the photo below for this step.

With the unit unplugged, locate the two red headers near the rear/left side of the PCB. Using thin nosed pliers or tweezers carefully remove the shunts from the pin headers and move them to the opposite side of the header pair. Make sure that the headers are shunted equally do not mismatch the shunts, by shorting the front and center header on one side and the rear and center on the other.



The trim potentiometer located between the key jack and volume control need not be touched and has been preset at production of this unit. Changing the position of this trimmer alters the drive from the oscillator to the amplifier and if needed can be adjusted to increase the output volume but is really only for access by our technicians. Altering this control will not damage the unit.



Technical Specifications

Current drain: Standby - 11mA

Volume on low – 30mA (9 o'clock position on volume control)

Volume on high – 90mA (Max. on Volume control)

Voltage: 9-12 VDC do not exceed 12 VDC

Unit weight: 9oz or 250 grams

Unit dimensions +/-: 3.75" x 2.25" x 1.5" (W x D x H)

A note about Iambic modes A & B

Iambic Mode A:

Sending an A in command mode turns the DOT/DASH memory OFF. With the DOT/DASH-memory turned off the keyer behaves like this: If you release the paddles while a dot or dash is being sent, the dot or dash will be completed, and nothing else is sent. In other words: If you tap the DOT, while a dash is being sent, and release the DOT before the transmission of the dash is over, no dot be sent after the dash. This is called Iambic mode A.

Iambic Mode B:

Sending a B in command mode turns the DOT/DASH memory ON. This keying mode is where the keyer stores the "opposite" element while transmitting one element. For example, if you first tap the DASH and while the dash is being sent tap the DOT, the keyer will send the DOT after the DASH is finished (no matter if you release the DOT before the end of the DASH transmission). This is called Iambic mode B.

Any questions about the practice oscillator, or these instructions, please email;

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