



## Youkits SK-1A 40m SSB/CW QRP Transceiver

### Operating manual



#### Specifications

**Size:** 88\*38\*124mm (not including knob, etc.)

**Weight:** about 280g (not including battery pack)

**Supply voltage:** 10-15VDC

#### Current drain

**Receive:** about 60mA

**Transmit:** about 800mA (DC12V)

**Receive:** 5.9-8MHz

**Transmit:** 7.0-7.3MHz

**VFO:** DDS circuit with 50MHz reference frequency

**Display:** LCD.

**Output power:** 12V supply 5-6W, 13.8V supply 8-9W

**Side tone:** about 700Hz

**Automatic key:** 5-40wpm adjustable

**Memory:** 8

## Connection

### Optional 18650 battery pack

Removed the two screws on the back, battery pack can be installed. Please only charger it with our special lithium battery charger.

### External power supply

Any 9-14V DC voltage or battery can be connect to power jack at top.It has a polarity protection circuit.

### Antenna

Any tuned antenna can be connected directly to the antenna(ANT) with a BNC connector, for non-resonant antenna need to use an antenna tuner

### Headphones

Stereo headset will be connected to the headphone port(PHONE), impedance 8-32 ohm.

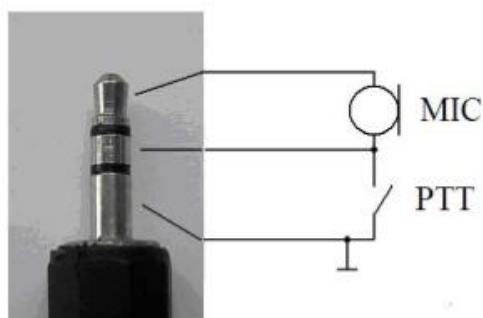
### Key/Paddle

The **EK-1C** has an automatic function that determines what type of key is being used and is initiated at Power On time. you will hear (in CW) the sound of the letter "A" if the paddle is connected or the letter "M" if the straight key is connected. (Must plug in straight key before power on to active straight key)



## MIC

Must use electric microphone, 3.5mm stereo plug



## The operation of EK1C

The left small knob is for power switching and audio gain, counter-clock turns down gain and power off.

### V/M/SAV Button



Click this button will be Alternating between Memory mode(MEM)and VFO mode, the LCD screen will show the MEM-\*\* or VFO-\*\*(The figures for 01-8).In Memory Mode the Tuning knob is used to change memory locations. In VFO Mode the Tuning knob is used to change the frequency.

Press the V/M/SAV button for 2 seconds(the LCD screen will display SAVE), the current frequency and current mode will be stored in the Memory Location selected.

### RIT/MOD button



Click this button to enter or exit RIT function. A dash (-)will be displayed to the right of the frequency display as shown above. The step can be adjusted between 10Hz and 100Hz by pressing the main knob.

When in the **RIT** mode, turning the tuning knob clockwise raises the frequency (as indicated by the up arrow). turning the tuning knob counter-clockwise will lower the frequency (as indicated by the down arrow).

### Auto Keyer speed change

To Change speed, press and hold the **RIT/MOD** for 2 seconds. This will allow you to change the auto keyer speed,turning the main knob to adjust, the screen showing the speed by numbers at bottom of the display. Press the **RIT/MOD** to save and quit.



## Change the Frequency Tuning Steps



Pressing the tuning knob will change the tuning step between 10Hz, 100Hz, 1KHz and 100KHz.

## Auto scan mode



Pressing the main knob for 2 second will enter the auto scan mode. In MEM, it will scan between the 8 memories. Press M/V/SAV to scan upwards, press RIT/SPD to scan downward. In VFO it will scan the frequency, press M/V/SAV to scan upwards and press RIT/SPD to scan downward. The scan speed can be switched between 10Hz and 100Hz by press the main know. Screen shows the the direction of scanning. Pressing main know for 2 second to quit.

## Mode Change



SSB/CW mode change switching is at back, push down is SSB, release is CW, screen shows the mode that you choose.

## Backlight



Pressing and hold M/V/SAV and RIT/SPD for 2 second to adjust the backlight.  
Turning the main knob to adjust following the option showing on screen.  
Pressing and hold M/V/SAV and RIT/SPD for 2 second to save and quit.

## Transmitting



You can transmit on 40m band (7.0-7.3MHz). The screen display "T" when transmitting. The screen display "-" when you try to transmit outside band. No signal will be sent, but side tone works, you can use this as CW practice.

## Adjustment

L9,L10 -- RX band filter

VC1 -- Beat frequency adjustment (700HZ)

TONE -- side tone audio volume adjustment

L11,L12 -- TX band filter

VC2 -- CW transmitting corrective capacitor

VR -- Transmitting transistor (Q10) parabola control potentiometer

RV1 -- supply power display value adjust

App.

You can install a speaker connect to SPK, the RX audio amp has enough power.