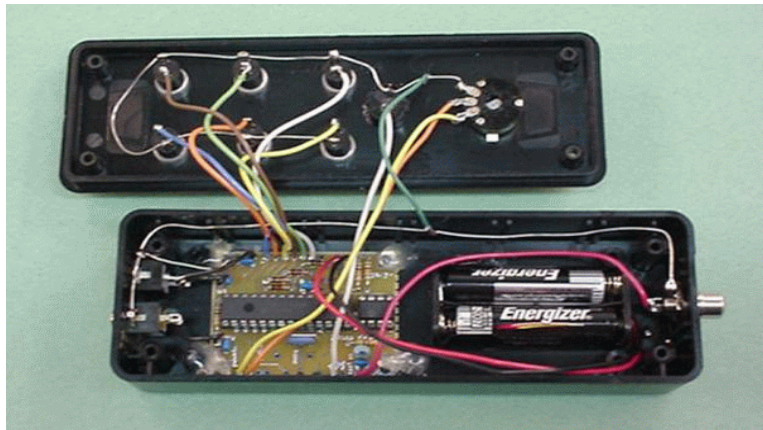


WB9KZY Island Keyer II

Suggested Wiring for Optional Hardware Pack

Suggested wiring for the Island Keyer II using the hardware pack from Morse Express Technologies is shown in the photo below. The box is a Radio Shack 270-1804 using the plastic cover (the aluminum cover that comes with the box does not provide adequate depth). It is black ABS plastic (easily drilled) and it measures 6" x 2" x 1¼" deep. If you often operate in "adverse RF" conditions, you may wish to use a metal enclosure, to shield the keyer.

The board mounting "ribs" at the left end of the box should be shaved flush using a chisel or hobby knife, or the key and paddle jacks won't fit properly. The piezo transducer and the battery holder are mounted with plastic cement. The board is held in place with hot-melt glue at the corners.



The grounding arrangement in this instance is a tinned bus wire that runs from the outer connection of the jack at the right (the output), around the side of the box to the other end where it ties the ground connections of the key and paddle jacks. There is a loop from this wire to one of the ground holes on the circuit board, and another to the common bus wire on the cover. The cover ground connects the ground side of the speed pot, the negative terminal of the piezo, and one terminal on each switch.

One of the mini phone jacks is mono, for the key, and the other is stereo, for the paddle. The mono jack is easily identified by the small spring that is visible inside the body of the jack. The terminal closest to the threaded bushing is ground. In the case of the mono (key) jack, the "hot" connection to the circuit board is the lower one, with the ground lug facing up. In the case of the stereo jack, the usual arrangement is to connect dits on the tip (lower terminal with ground facing up) and dahs on the "ring" or other horizontal terminal. You can reverse them if you want, but remember you can also program the keyer to reverse them.

Note the orientation of the wires to the speed control pot. If you wire it this way (ground at the "top" as in the picture) the speed will increase when you turn the knob clockwise. Note also that the piezo transducer has a positive (longer) and negative terminal, as marked on the bottom of the unit. Negative is ground.

Parts Included in the Hardware Pack (Packing List)

1 100 K Pot (speed control)	1 Knob for the pot
1 Piezo trasducer	6 MOM pushbutton switches
1 2xAAA battery (3V) battery holder	1 RCA jack for keyer output
1 Mono phone jack for straight key input	1 Stereo phone jack for paddle input

100K panel pots for weight and tone control are not included, because these features can be adjusted by programming and most operators will not want to change the settings often.

Drill Size Table

Following are the hole or drill sizes for the various controls. If you do not have drills in exactly the same size you can use the next larger. It's best to start with a hole that is smaller than needed and increase the drill size until the component fits comfortably. Note that in the RS box shown, the buttons must NOT be located along the center line of the cover– there isn't adequate clearance over the integrated circuit chips.

Key and Paddle Jacks	15/64
RCA Phono Jack	1/4
Piezo (clearance opening)	5/32
Pot and switches	9/32

