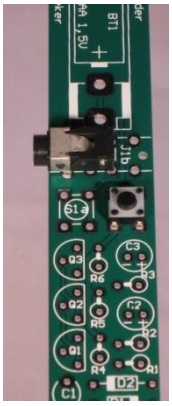
JOTA-JOTI 2011 KIT

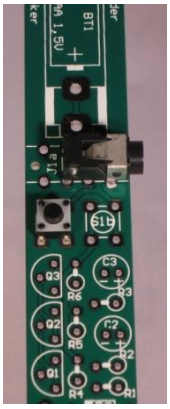
CONSTRUCTION DESCRIPTION SIGNAL FINDER

When this kit is built correctly, the signal finder can detect electrical noise sources. Electric fields, which are transmitte by almost every electrical device, can be detected by the signal finder. With the signal finder, the hidden world of electrical signals becomes audible!

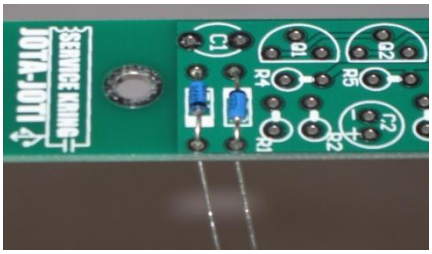
The kit consists of an Small board and a number of electrical components. The kit can be built for lefthanded or righthanded use.



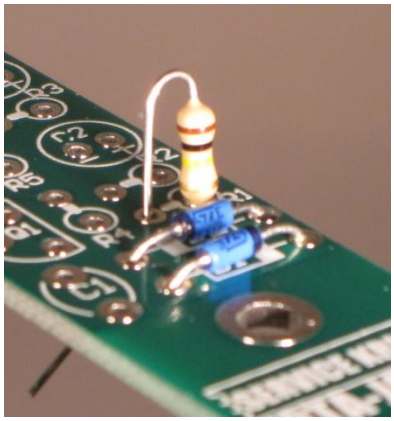
Lefthanded	Righthanded
Step 1: Mount the switch in position **S1b**	Step 1: Mount the switch in position **S1a**
Step 2: Install the 3.5 mm jack plug (headphone jack) at position **J1a**	Step 2: Install the 3.5 mm jack plug (headphone jack) at position **J1b**

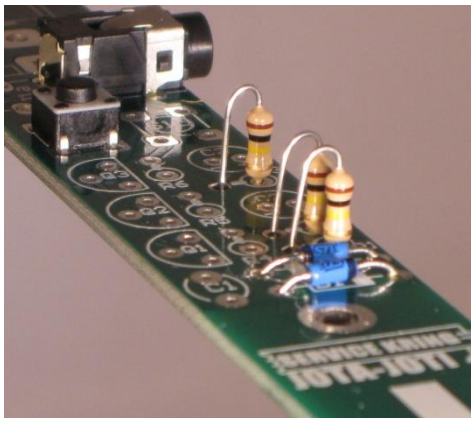


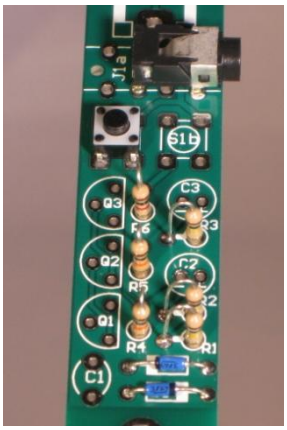
Then mount the diodes. Bend the wires for this purpose at an angle of 90 degrees. Insert the wires through the holes on the PCB. Note the line on the diode, which must match the printing on the board!



Then the resistors are next. These are mounted upright. This means that one leg is bent back/down. Then the legs are plugged through the holes. The resistance comes in the circle.







R1, R2, R3 : 100kΩ (Brown, Black, Yellow, Gold)
R4, R5 : 10kΩ (Brown, Black, Orange, Gold)
R6 : 1kΩ (Brown, Black, Red, Gold)

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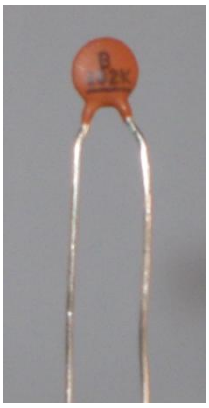
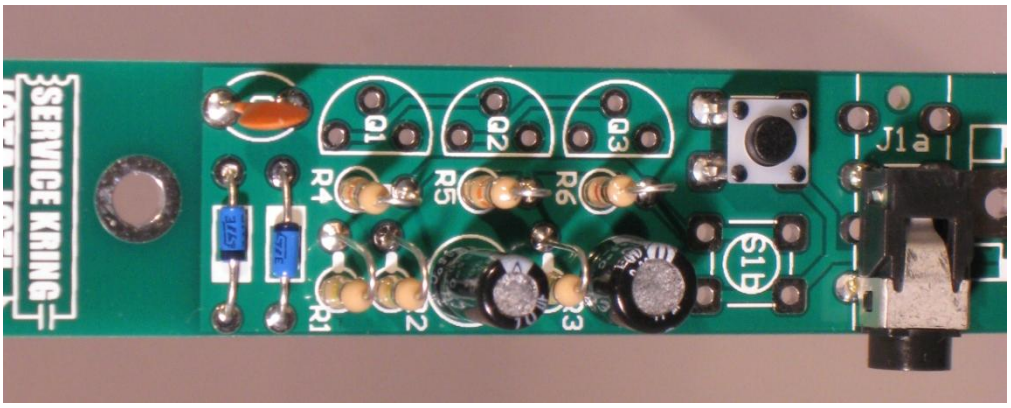
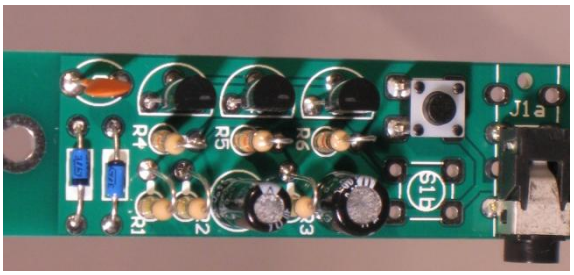
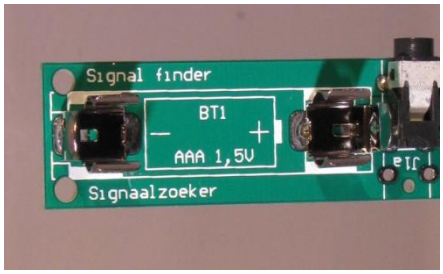
Now find the capacitors:
C1: Ceramic capacitor 1nF (102K) (**Carefully** bend the wires out)
C2: Elco, 10 uF (long lead wire is the +)
C3: Elco, 47 uF (long lead wire is the +)





Transistors: 3 x BC547C (note the flat sides!)
Battery terminals (note that the open sides facing each other!)





Insert the battery (AAA 1.5V) in the terminals and plug your headphones. The signal finder is now ready for use! Press the switch to activate the signal finder. Listen to the sounds of a cell phone, TV, or ..... Enjoy!