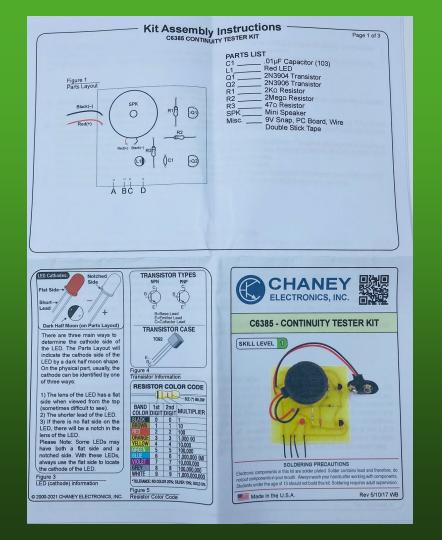
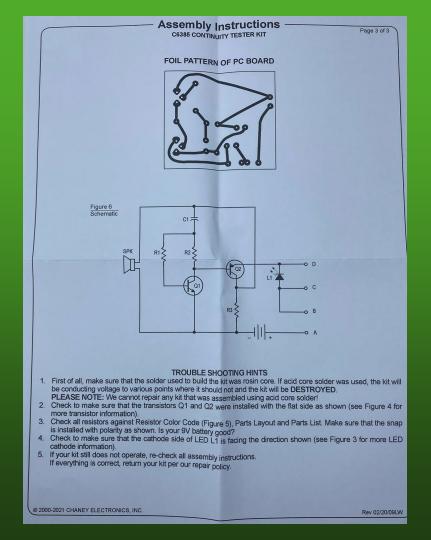
2023 Continuity Tester Kit

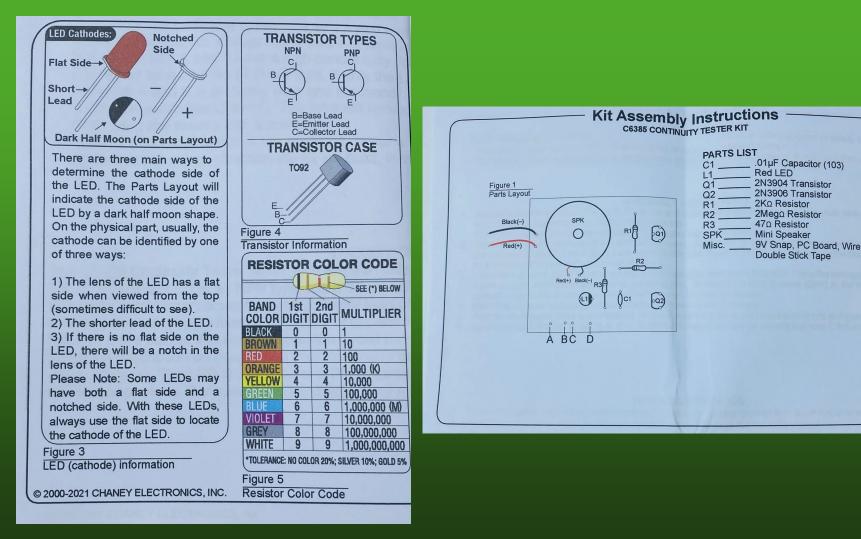




Assembly Instructions	
	ge 2 of 3
	2022
	5565
Small Pencil type soldering into (40 waits rating or less) Pair of wire cutters, a screwdriver & needle nose pliers Fresh Rosin or Resin Core Tin/Lead s	older
	······
ASSEMBLY INSTRUCTIONS	
	d solder
 Assemble per Parts Layout (Figure 7), Fund Schemade (Figure 7) during rosin of resin core tin/lea only (acid core solder and acid fluxes will ruin the kit) only (acid core solder event assess or goonlee before you start. 	a solder
only (acid core solder and acid index with diff diff with the kit) Make sure to wear your safety eyeglasses or goggles before you start. Make sure to wear your safety and Q2 for correct installation of these components (see Fig.	
2. Observe flat side on literational EDI 1 with cathode side (see Figure 3 for LED cathode into) in the	for more
	OD circuit
 Install mini speaker (SPK) by during up of the standard stand Standard standard stand Standard standard sta	ard, Now
board at place shown on Parts Layout, prosting initially to data the product (SPA) to the PC bo connect wires to PC board as shown in Parts Layout, No polarity needed.	
4. Install battery snap observing context planty do the check assembly for correct parts placement and asset to	
 After all components have been instance, to ended assention to ended parts placement and good sold Connect pieces of wires to points A, B, C, D (Note: These wires can be several feet long if desired). 	ler joints.
6. Connect pieces of wires to pointer () and the connect pieces of wire	
TESTING & OPERATION	
1. To test your continuity tester, simply connect a fresh 9V battery to snap and short together wire A	to wire B
Your continuity tester should emit a pleasant buzzing tone and the red LED should light up. Now	with wire A
still connected to wire B connect wire C to wire D; the tone should remain on but the LED should	
 To operate the continuity tester, use wire A and wire B to test normal continuity of circuit traces, w 	ires, fuses,
speakers, lamps, etc. Always make sure that there is no power going to the circuit or item that you a	re going to
test. When wire A and B have a high conductivity (low resistance) connected between them, the u	nit will emit
a pleasant tone and the LED will light. If only the LED lights up but there is no tone the resistance	e between
the wires A and B is probably over one thousand ohms. If you want to verify a short, connect wir	e A to wire
B and test with wires C and D. The tone will remain on (but change slightly) and the LED will go of	but when a
short (very low resistance) is measured.	at is good
3. Another good application of the continuity tester is for a simple test of diodes and LEDs. If the pa	
you will notice in one direction the kit will buzz, in the other it won't.	
	The second second
THEORY OF OPERATION	and Of and
The C6385 Continuity Tester Kit uses a two transistor direct coupled oscillator made up of transist	
Q2. The transistor Q1 is an NPN type and it drives Q2, which is a PNP type transistor. The feedback	necessary
to sustain oscillations comes from the collector lead of Q2 by way of C1 and R1 to the base of Q1. Th	tostors are
the oscillator comes also from the collector of Q2 and it drives the miniature speaker (SPK). Continuity	instructions
typically just a buzzer that sounds when the circuit path under test is "made complete". The assembly	ared LED
contain a description on how to use your continuity tester, which in addition to the buzzer sound has	ons directly
which lights up. The LED is made up of a PN junction of semiconductor material that converts electr	observed.
into visible photons. Because a LED is made up of a PN junction, they have a polarity that must be	

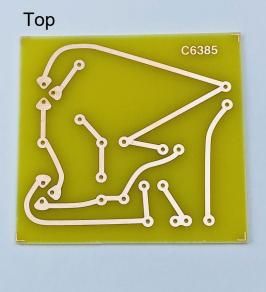
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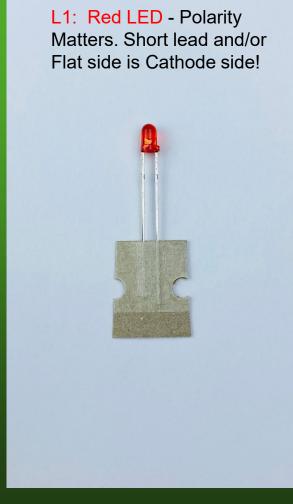
PC Board - Back area we soldering components to board!



PC Board - Front area we push components through!









Q1: 2N3904 Transistor - No Green Line - Polarity Matters!



You can use magnifying glass to read the numbers on the flat side of transistor! Q2: 2N3906 Transistor -Green Line - Polarity Matters!



You can use magnifying glass to read the numbers on the flat side of transistor!

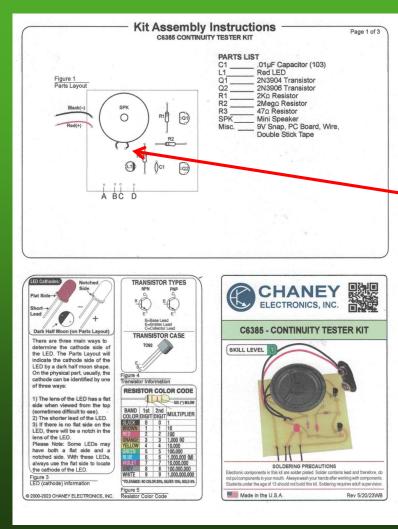






SPK: Mini Speaker - Polarity Matters

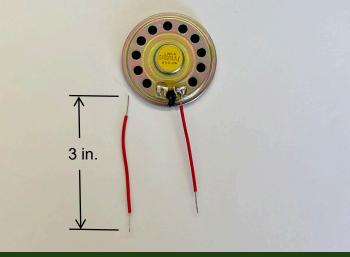




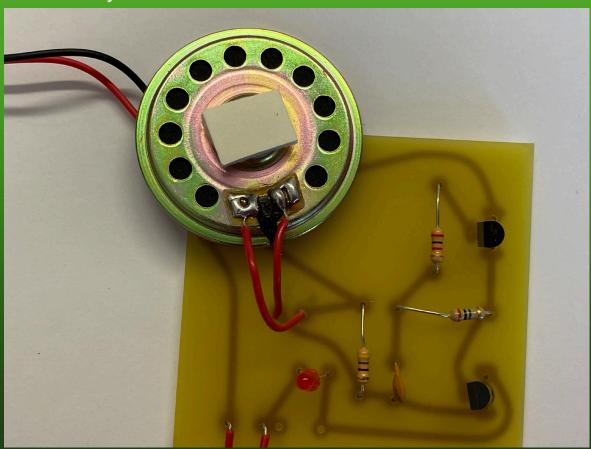
Important Note:

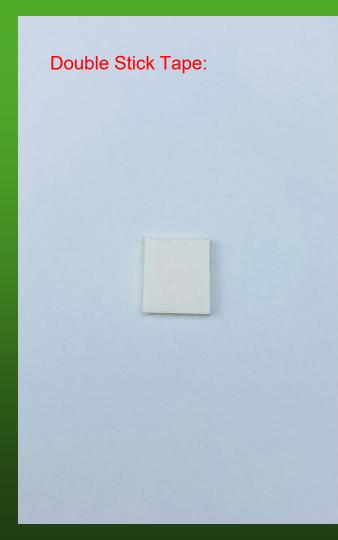
Some of the kits may include a mini-speaker that does not have a black and red wire attached. If that is the case, you will need to use the red wire included and cut two 3-inch length pieces. Remove the insulation and solder both wires to the mini-speaker and the other end to the board. There is no *Polarity* in this case. Note the new instructions shown on the left do not show *Polarity* with the mini-speaker connection in Figure 1.

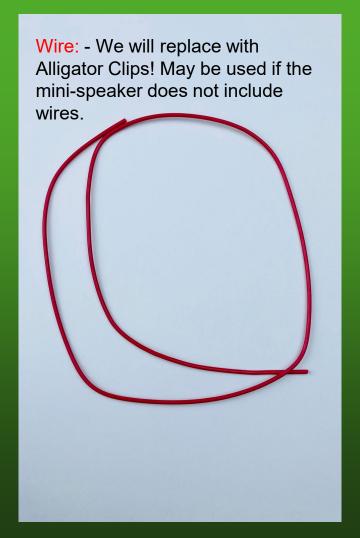
> One piece of red wire is shown soldered to the minispeaker. Solder both to the speaker.



Final assembly of the speaker with two 3-inch wires soldered to the speaker and the opposite ends to the board. This step is only required if the speaker does not come with the wires already attached.







9 V Battery Snap: - Polarity Matters



Alligator Clip: We will cut in half and use in holes A and B only. Strip the insulation off the cut ends.



