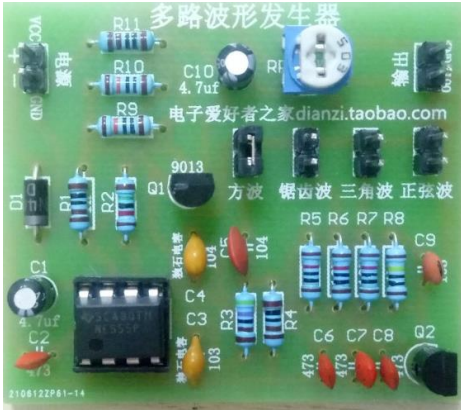
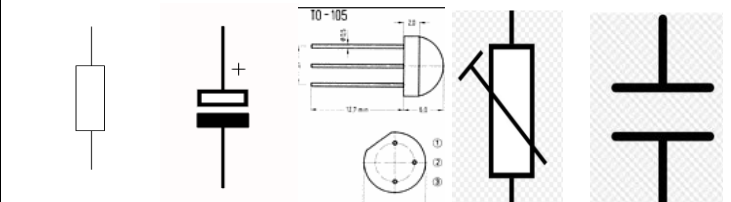
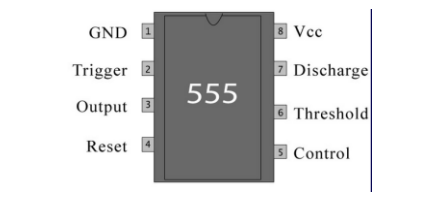
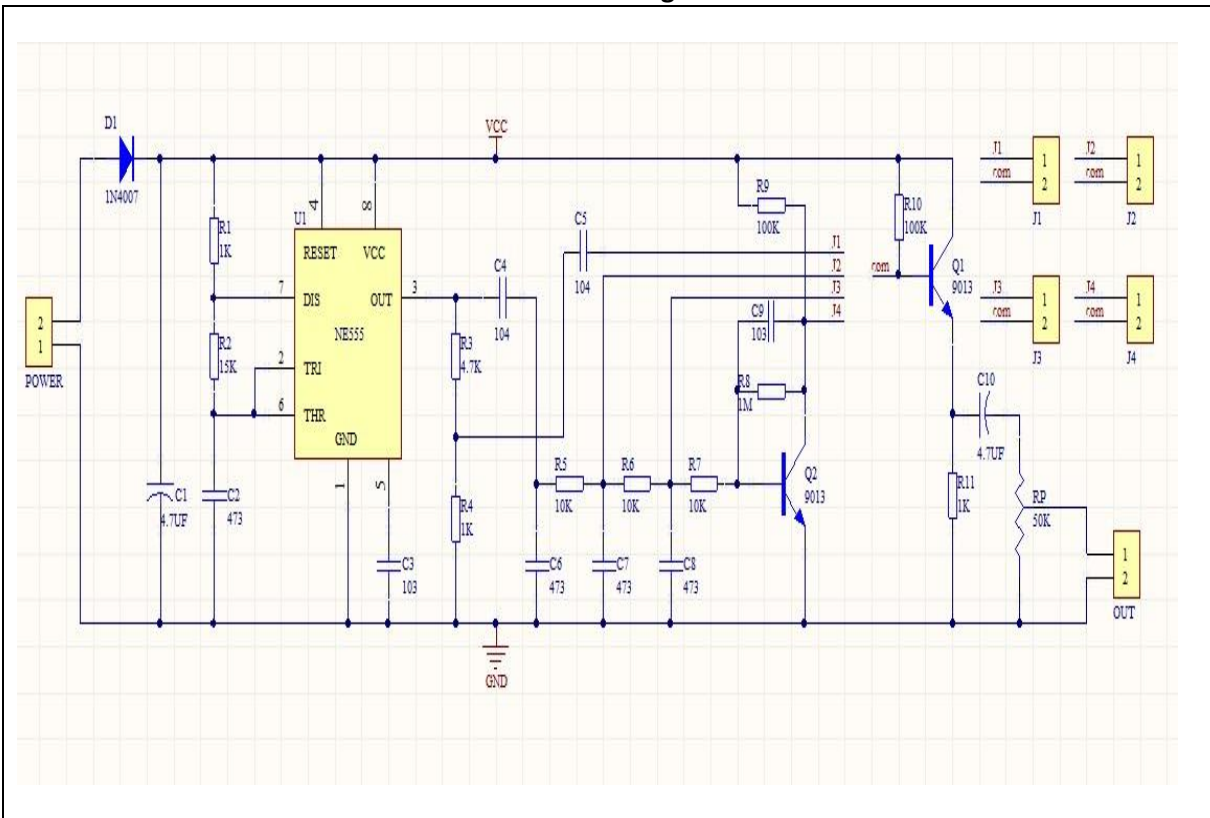


STS-161B NE555 MULTI-CHANNEL WAVEFORM GENERATOR KIT

<p>Power Supply voltage: 6-12V DC voltage, recommended 9V</p>  <p>PCB Full Assembly (Board size : 43.9*50.9*1.5mm)</p>	<p>Component List</p> <p>R1, R4 & R11= 1kΩ, R2=15kΩ, R3=4.7 kΩ, R5, R6 & R7=10kΩ, R8=1M, R9 & R10=100kΩ, C1 & C10= Electrolytic Capacitor 50V 4.7μF, C2, C6, C7 & C8= 473 Ceramic Capacitor, C3 & C9 = 103 Ceramic Capacitor, C4 & C5= 104 Ceramic Capacitor, D1= Diode 1N4007, Q1 & Q2= Transistor 9013, RP= Preset 50kΩ, U1 = IC NE555, 6 Male Header 2 Pin, IC Socket 8 Pin, Jump Cap and PCB Board</p> <p>Total Item = 34</p>
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Schematic Diagram



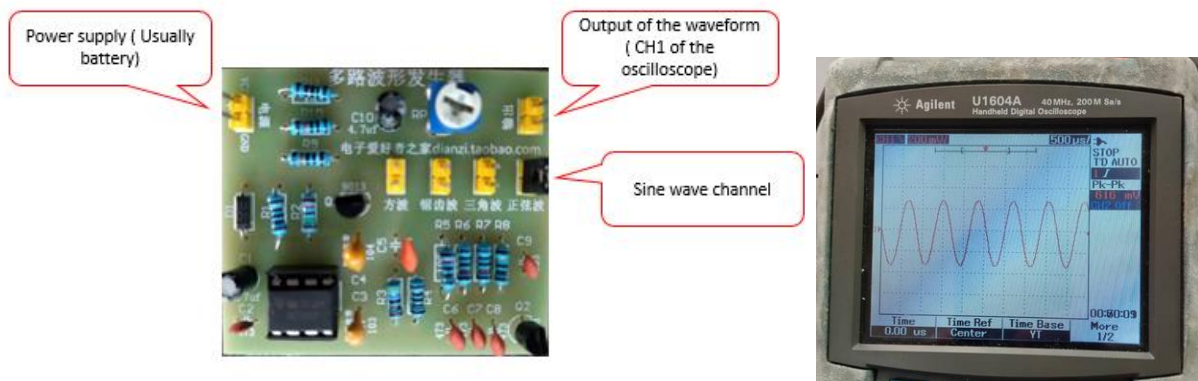
Component List:

Components	Quantity	Reference	Components	Quantity	Reference
1kΩ Resistor	3	R1, R4 & R11	Transistor 9013	2	Q1 & Q2
15kΩ Resistor	1	R2	Preset 50kΩ	1	RP
4.7kΩ Resistor	1	R3	IC NE555	1	U1
10kΩ Resistor	3	R5, R6 & R7	IC socket 8 Pin	1	U1
1MΩ Resistor	1	R8	Male Header 2 Pin	1	Input
100kΩ Resistor	2	R9 & R10	Male Header 2 Pin	1	Output
Electrolytic capacitor 50V 4.7μF	2	C1 & C10	Male Header 2 Pin	1	Square Wave
473 Ceramic capacitor	4	C2, C6, C7 & C8	Male Header 2 Pin	1	Saw-tooth Wave
103 Ceramic capacitor	2	C3 & C9	Male Header 2 Pin	1	Triangle Wave
104 Ceramic capacitor	2	C4 & C5	Male Header 2 Pin	1	Sine Wave
Diode 1N4007	1	D1	Jump Cap	1	-
Total Item = 34					

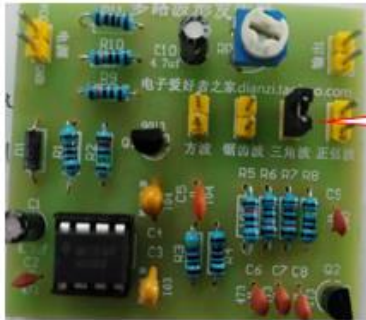
Introduction:

NE555 multi-channel waveform generator can generate four waveforms : square wave, sawtooth wave, triangle wave and sine wave. A waveform output can be chosen through the jump cap and the amplitude can be adjusted by preset. The circuit is simple, the operation is convenient, it can exercise the welding production ability, and it is suitable for electronic enthusiasts to cooperate with when making oscilloscopes and other instruments.

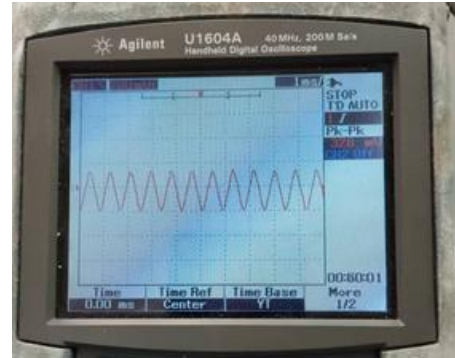
Connection setup 1: Power supply voltage is connected to the input channel of DIY KIT. CH1 of the oscilloscope is connected to the output channel of the DIY KIT. Jump cap is connect to the pin header that labelled sine wave. The output can be observe in the oscilloscope.



Connection setup 2: Jump cap is connect to the pin header that labelled triangle wave. The output can be observe in the oscilloscope.



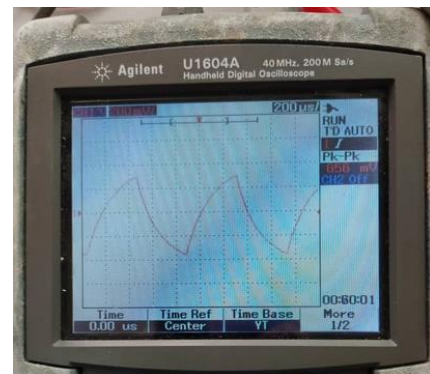
Triangle wave channel



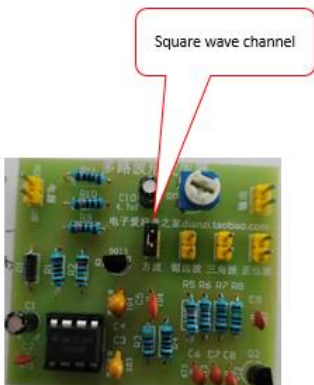
Connection setup 3: Jump cap is connect to the pin header that labelled sawtooth wave. The output can be observe in the oscilloscope.



Saw-tooth wave channel



Connection setup 3: Jump cap is connect to the pin header that labelled sawtooth wave. The output can be observe in the oscilloscope.



Square wave channel

