



instructables

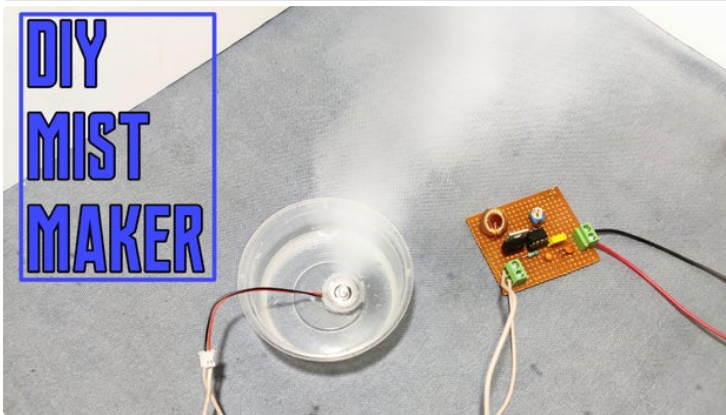
## DIY MIST/FOG MAKER USING IC 555



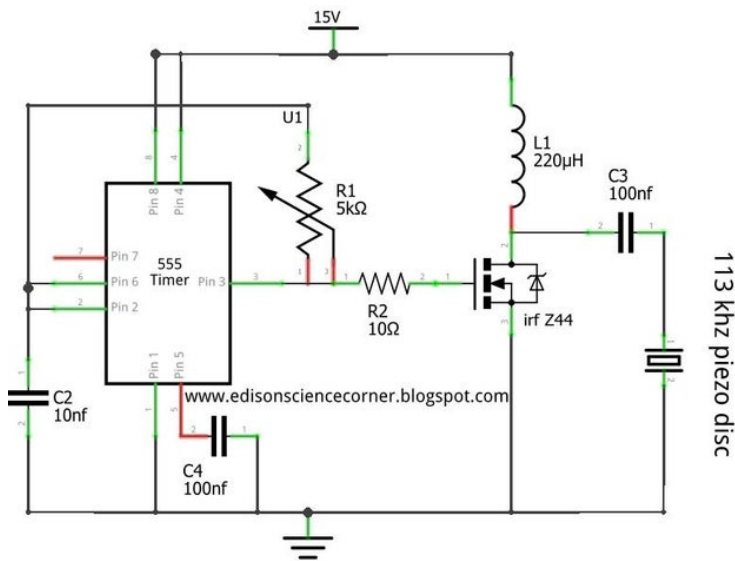
by EDISON SCIENCE CORNER

In this tutorial i am showing how to build a mist/fog maker using IC 555 very simple circuit. This is also know as humidifier,atomizer lets get started.

[https://youtu.be/Mzb8sfLl\\_ZE](https://youtu.be/Mzb8sfLl_ZE)



### Step 1: Circuit Diagram (thanks to Great Scott)

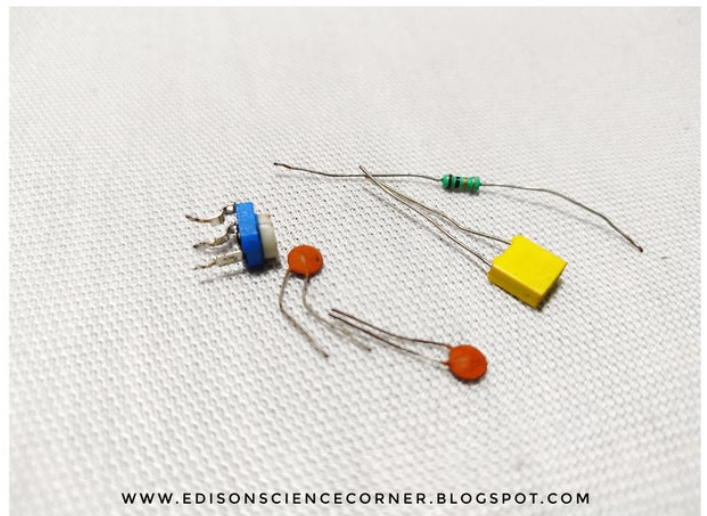
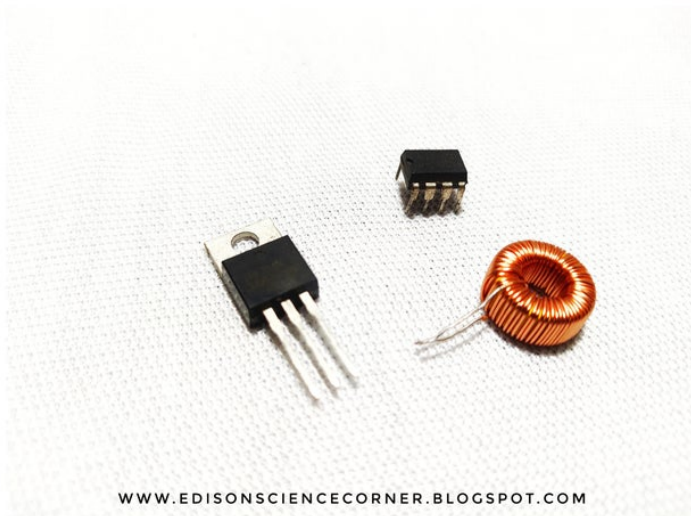


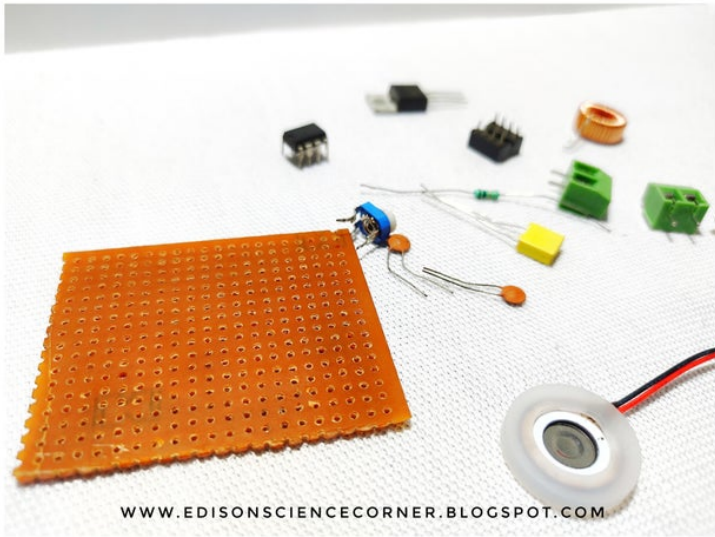
fritzing

## Step 2: Components Needed for Making This

1. Piezoelectric disc ([buy piezoelectric disc from here](#))
2. NE555
3. 220uH inductor
4. IRF Z44 MOSFET
5. 10nf capacitor
6. 2\*100nf capacitors
7. 10ohm resistor
8. 5k variable resistor

Gather all components





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### Step 3: The Piezoelectric Disc

The main component of this project is a piezo electric disc the working of the piezo is very simple. Every piezo has its own resonance frequency in our case that is 113kHz. So if we apply 113kHz signal with suitable voltage the piezo disc will start to vibrate with 113kHz frequency. If we place the piezo on top of a water

surface the water will also start to vibrate. mist or fog will form due to the high vibration of water+air

(Watch the video for more detailed view)

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### Step 4: Working of the Circuit

- Here 555 is used for generating 113kHz signal we can adjust that with 5k variable resistor
- Using the MOSFET we drive piezo with high voltage. Should use 15 volt power supply

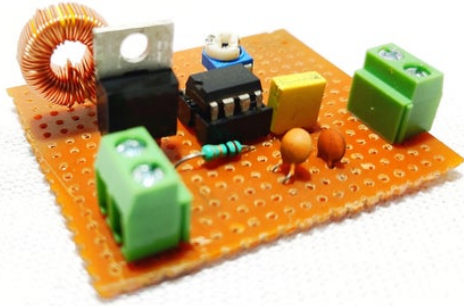
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### Step 5: Soldering

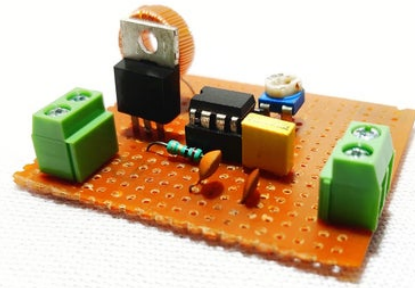
This is nothing just solder everything according to the circuit diagram

I soldered everything in a common PCB

Don't dip the piezo disc on water place the disc just above the water surface



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## Step 6: Thanks...!

If you have any doubts you can ask here.

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