

LoFi Delay PT2399

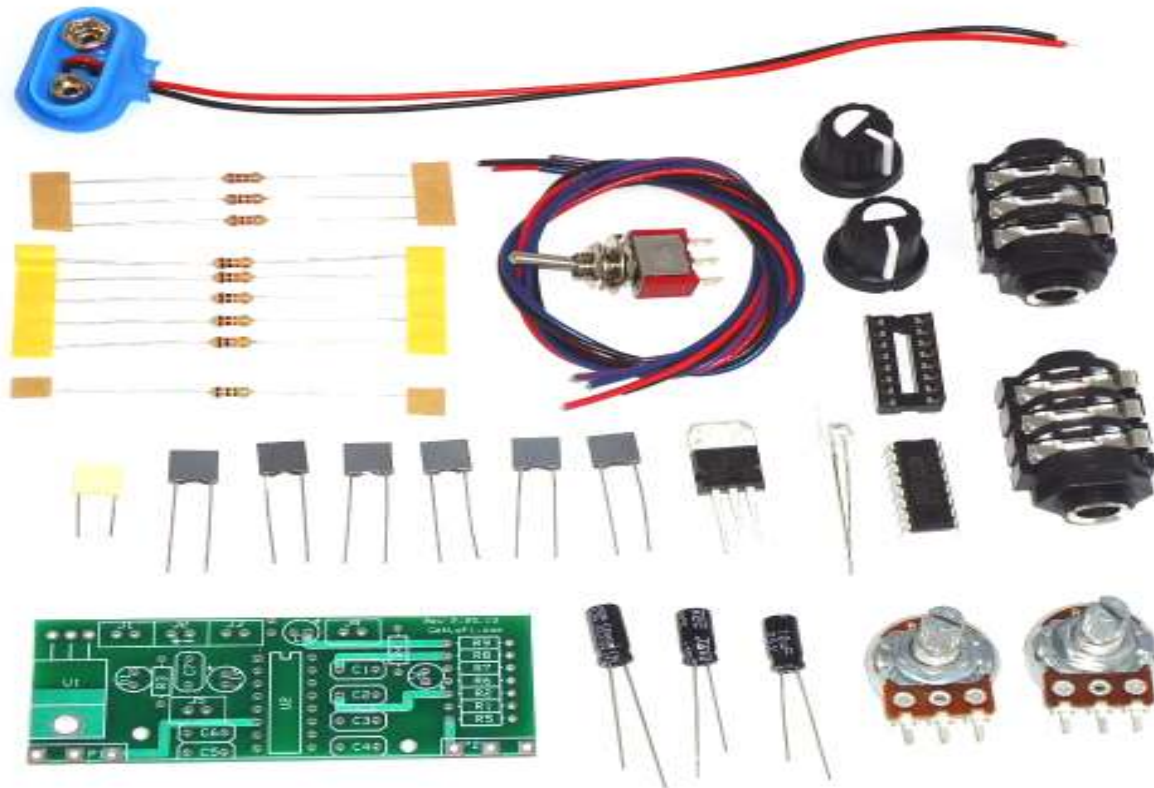


**BEFORE YOU BEGIN
SAFETY IS YOUR RESPONSIBILITY.**

Make sure that all the components are included.
Always work in a well lit and ventilated area.
Wash hands after handling solder and components.
Use only proper tools.
Returns only accepted for unopened kits.
Send us an email at circuitmaster@gmail.com with any problems or questions.

Tools Needed for Basic Kit Assembly

25 watt or less soldering iron with a fine tip.
60-40 Flux-Core from Radio Shack or equivalent **DO NOT USE ACID CORE** or **SELF CLEANING** solder.
Wire Cutter for cutting long legs of components close to circuit board.
Wire Stripper for exposing the metal core of the insulated wire.
Third Hand or other assembly with a clip to hold the circuit board while soldering.

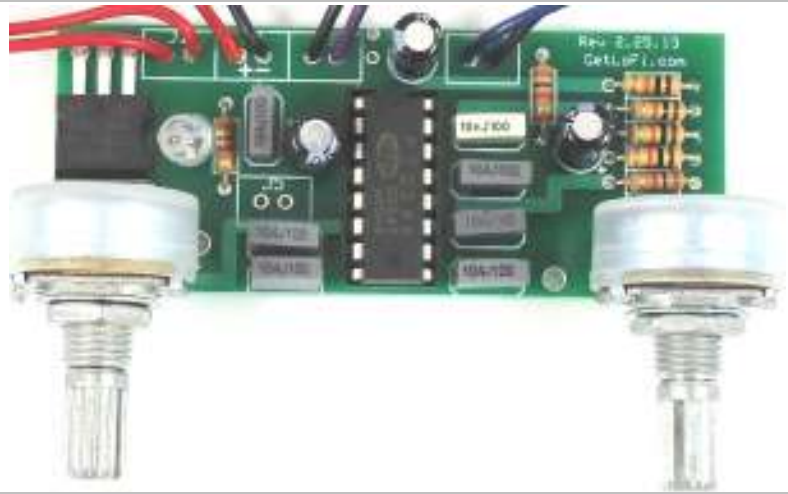


Assembly Instructions:

Step: 0

Comment

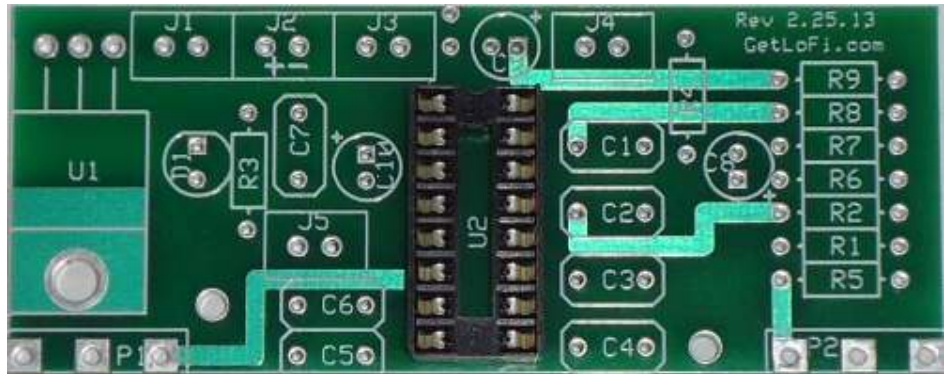
The finished delay unit should look like this



Step: 1

DIP 16 Socket

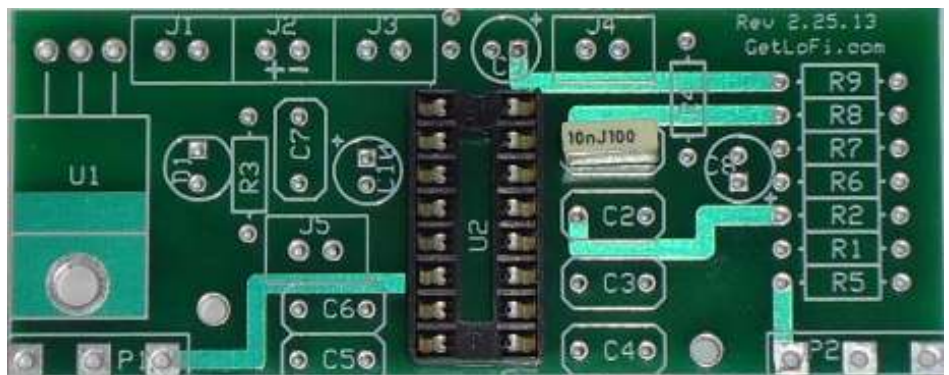
Solder in IC Socket.



Step: 2

0.01 uF Capacitor Box
103

Solder in Capacitor(s)

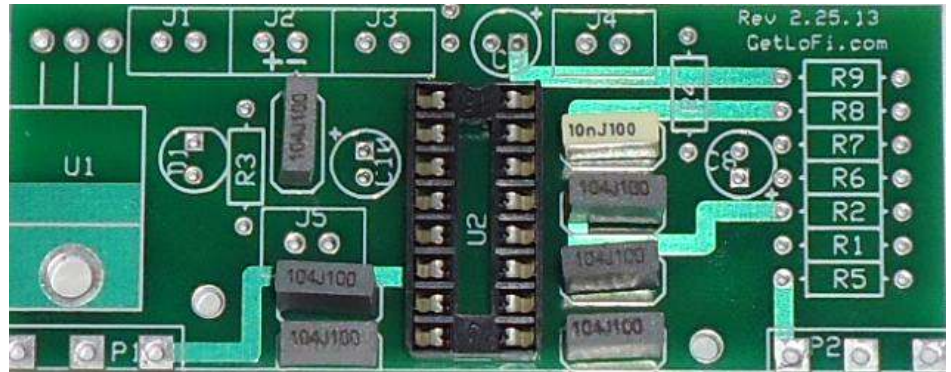


Assembly Instructions:

Step: 3

0.1 uF Capacitor Box
104

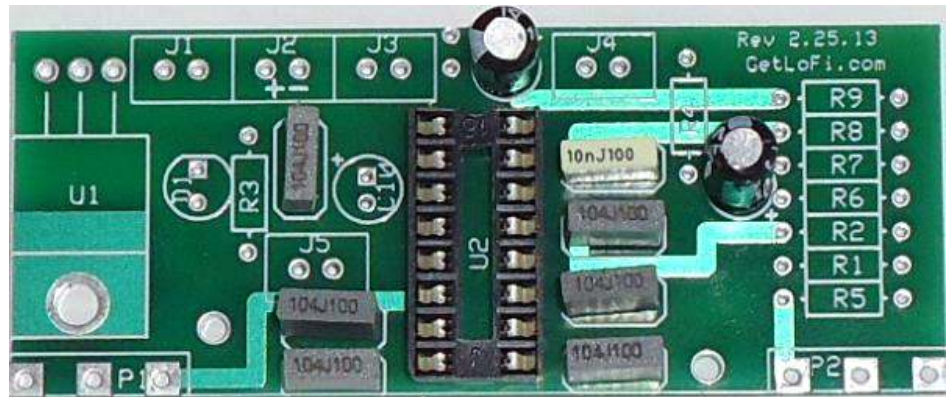
Solder in Capacitor(s)



Step: 4

10uF Capacitor

Solder in Capacitor(s) - Observe the orientation of the white - stripe as shown in the image.

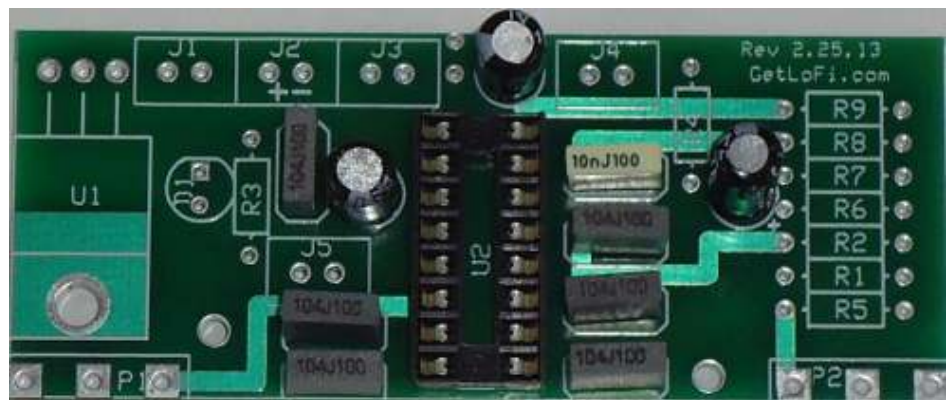


Step: 5

47uF Capacitor

Polarized. The - stripe must be opposite of + in the circuit board

Solder in Capacitor(s) - Observe the orientation of the white - stripe as shown in the image.

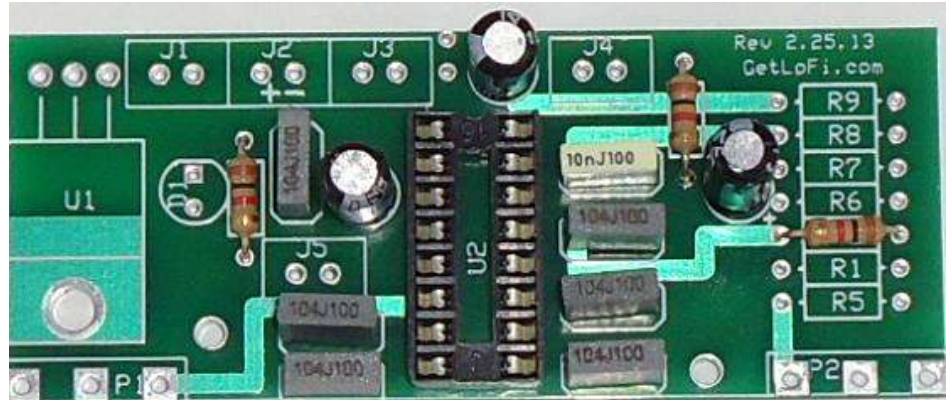


Assembly Instructions:

Step: 6

1K 1/4 Watt Resistor
Brown, Black, Red

Solder in Resistor(s) (Blue ones)



Step: 7

10K 1/4 Watt Resistor
Brown, Black, Orange

Solder in Resistor(s) color code (Brown, Black, Orange)



Step: 8

100 1/4 Watt Resistor
Brown, Black, Brown

Solder in Resistor(s) color code (Brown, Black, Orange)(Brown, Black, Brown)

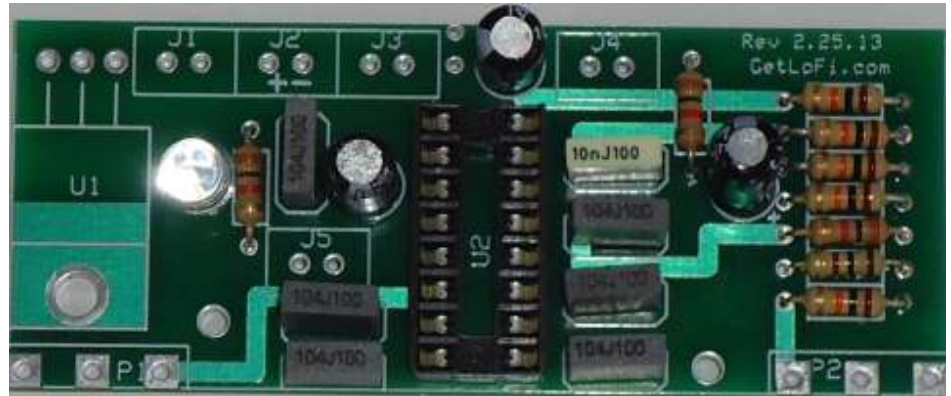


Assembly Instructions:

Step: 10

LED 5mm Red Water Clear Ultra Bright

Install LED with flat wide towards the power connection



Step: 12

IC 7805 VOLTAGE REGULATOR

Flat side down.

Solder in the Voltage Redulator. This drops 9 volts to 5v.



Step: 14

20K B Potentiometer

Break off the little tab.

Solder in the 20K feedback amount potentiometer

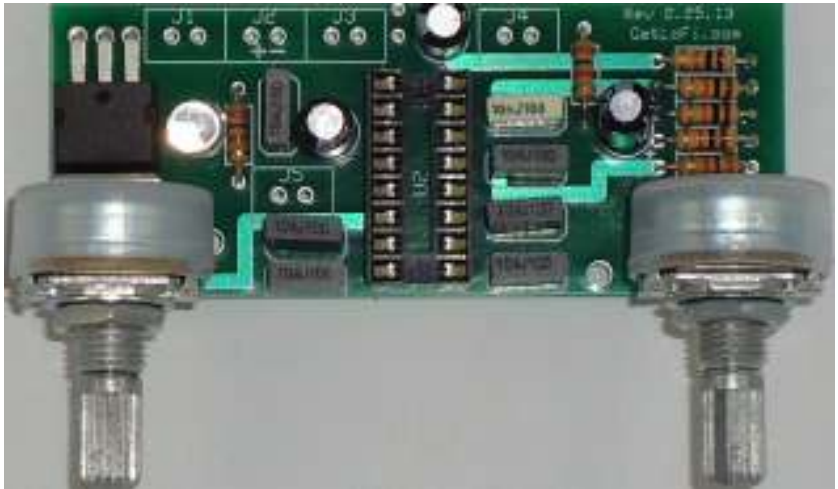


Assembly Instructions:

Step: 15

250K B Potentiometer
Break off the little tab.

Solder in the 250K Delay time potentiometer



Step: 17

9 Volt Battery Clip
Red wire is Positive (+9 volts) and
Black wire is Negative (-) also known
as Ground

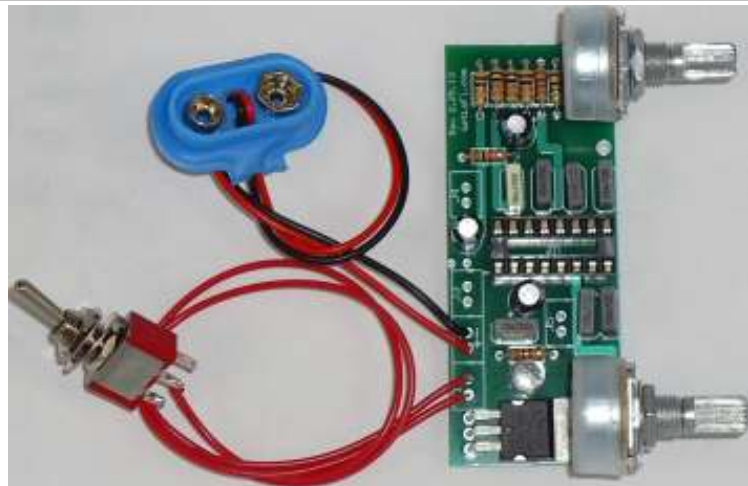
The 9 volt battery clip. Black wire
should go to - and red to +



Step: 18

SPDT SWITCH

Solder up the power switch



Assembly Instructions:

Step: 19

STEREO 1/4 JACK SWITCHING

Make sure to connect to the Non-Switching side

In and Out jacks. J3 is OUTPUT. J4 is INPUT



Step: 20

IC 2399

Finally install the IC, with a center divot pointing away from the potentiometers. Logo closest to the back of the circuit board.

