

9 LED FX Device FX Build

Parts Required:

9 T1 LEDs, they can be any color but I recommend green or red.

1 General Purpose Diode

1 .1uF Capacitor – not critical what type, but should be sized to fit your project.

1 20pF Capacitor – I recommend a ceramic cap here.

9 390 Ohm quarter watt resistors.

1 10K Ohm quarter watt resistor.

1 1K Ohm quarter watt resistor.

1 3.3K Ohm quarter watt resistor.

1 PC Board mount push button switch. (used to change display modes).

1 PIC16F54 – You can use another microcontroller here, but you may need to mod the code.

1 6 pin right angle header - this will be the programming port to plug in a PICkit programmer.

About 14 inches of black 22 gauge wire.

About 3 inches of red 22 gauge wire.

About 12 inches of yellow 22 gauge wire.

About 7 inches of green 22 gauge wire. You can, of course, use different color wire.

1 PC board big enough to accommodate the project.

Battery pack of some kind to supply 4v to 5v to the project. Don't go over 5.5v, the PIC can't take that.

A project box – if needed, this all depends on how you intend to use the LED display device.

Tools:

Solder

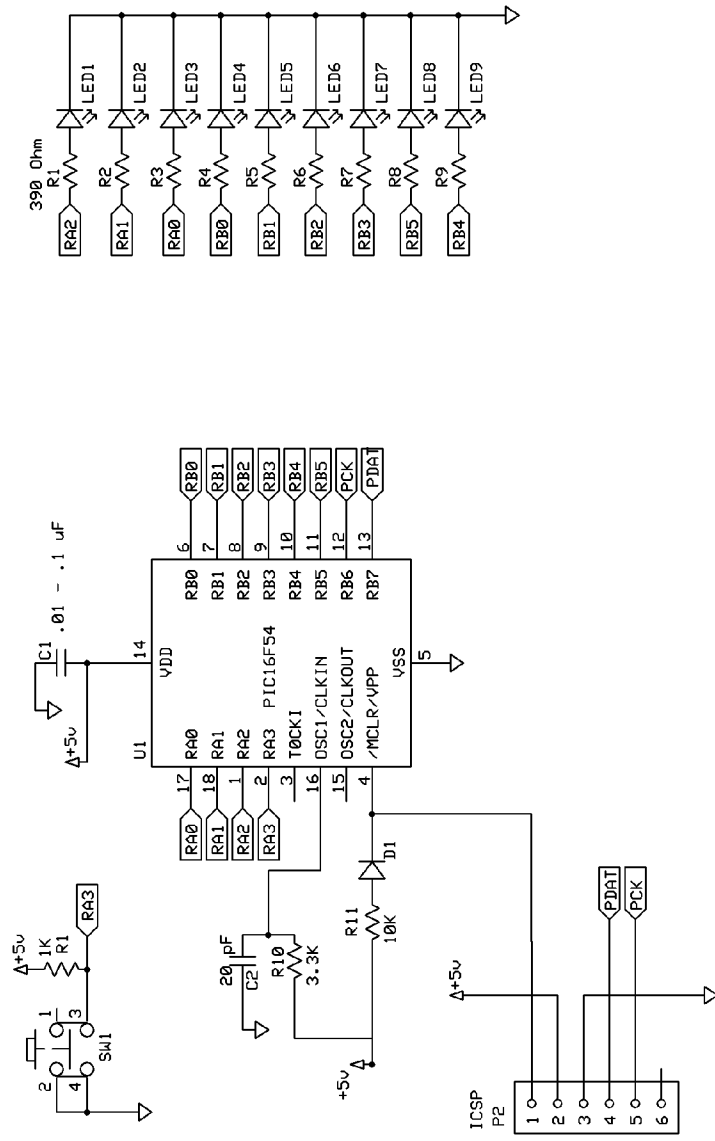
Soldering Iron

2 Pliers (only if you need to trim the PC board.)

Wire Cutters

Wire Strippers

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MagiDavid 9 LED FX Device	
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