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MICROCONTROLLERS SIMPLIFIED

DR-PICLiP
PIC Lab in Pocket

User Guide

Here we present another board in the **Lab-in-Pocket** series.

This is built around PIC18F452 and can be used for its pin compatible controllers from Microchip.

DR-PICLiP board has:

- 8 x LEDs,
- 4 x Switches,
- 1 x DC Motor Driver L293D,
- 1 x Stepper Motor Driver ULN2803,
- 1 x RS232,
- 1 x Buzzer,
- 1 x Relay,
- 1 x LCD,
- 1 x Seven Segment Display,
- 1 x Light Dependent Resistor – LDR,
- 1 x Infrared Transmitter,
- 1 x Infrared Receiver
- 1 x 38KHz IR receiver,
- 1 x Temperature Sensor

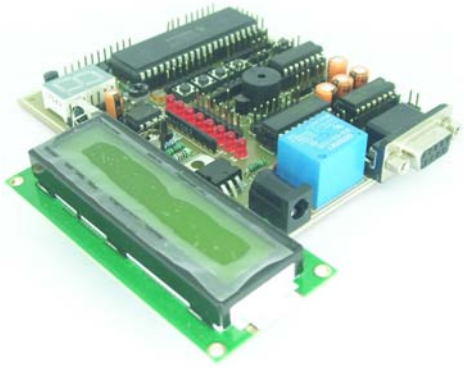
And

- 1 x Target microcontroller PIC18F452
- 1 x 5V regulator

Product includes:

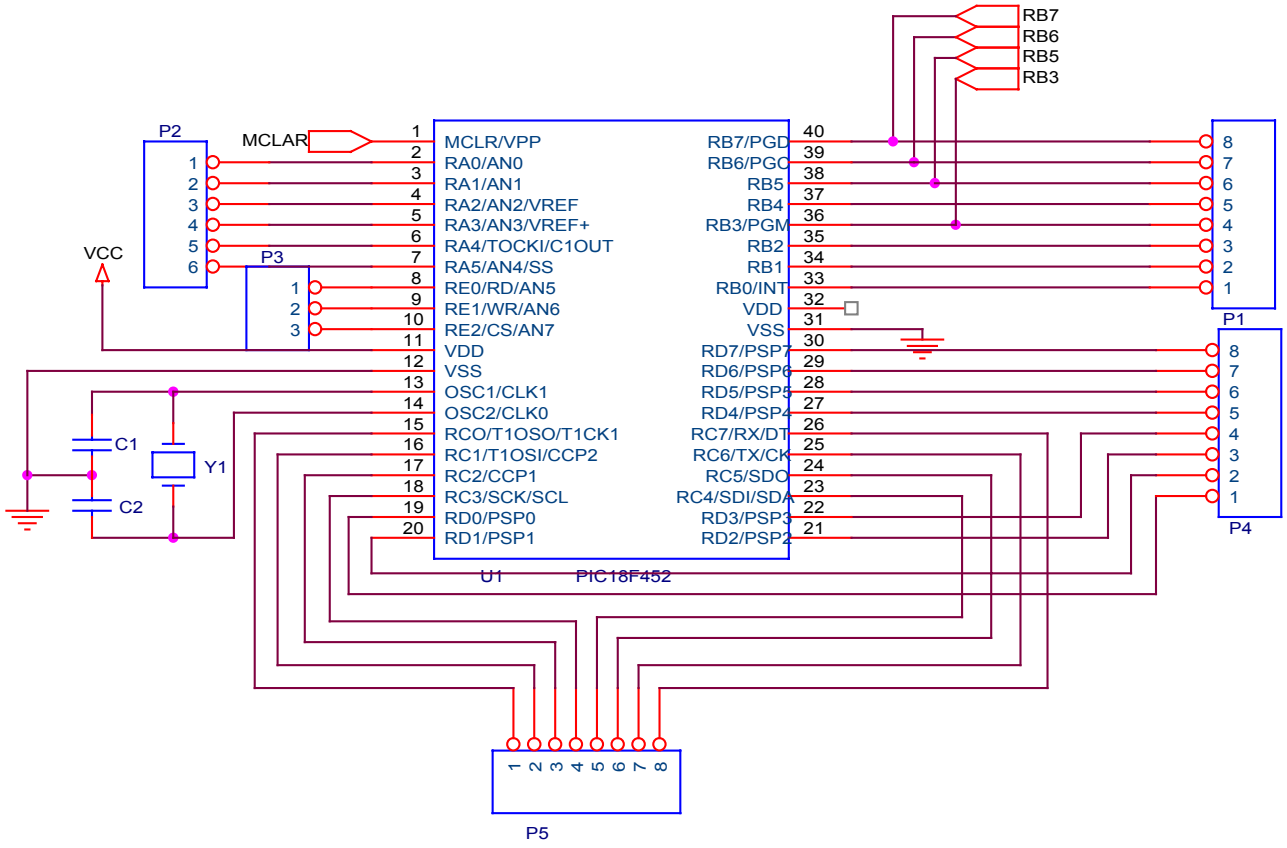
1. Assembled & Tested PCB with all components mounted
2. A Set of 20 single pin wires for interfacing (Not included in Export shipments)
3. DC Adapter (Not included in Export shipments)

Source code, sample programs or softwares are NOT included.

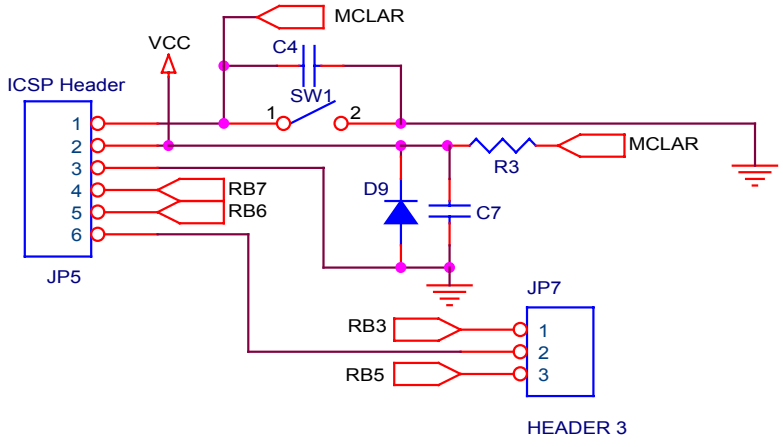


Schematics:

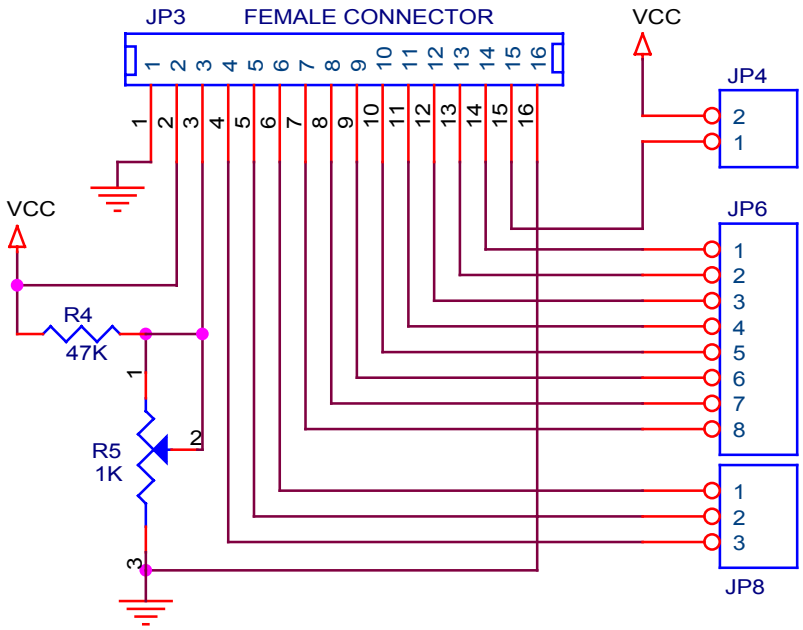
PIC18F452 Target Schematics



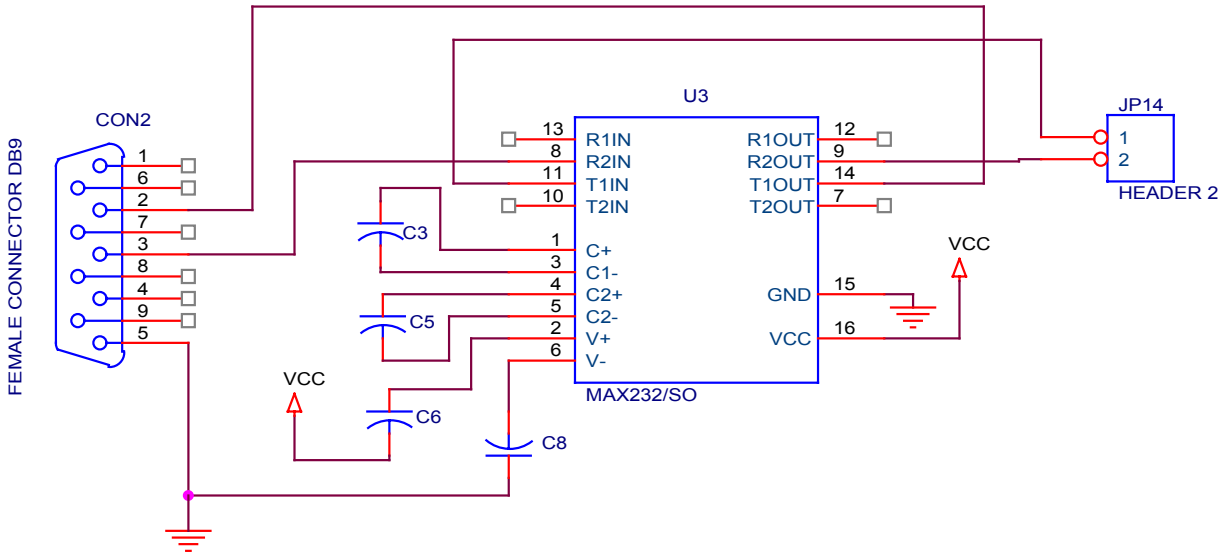
PIC ICSP Header Schematics



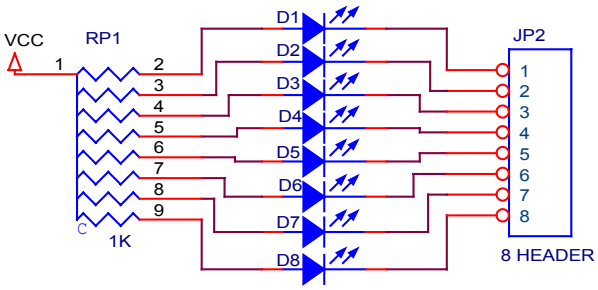
LCD Schematics



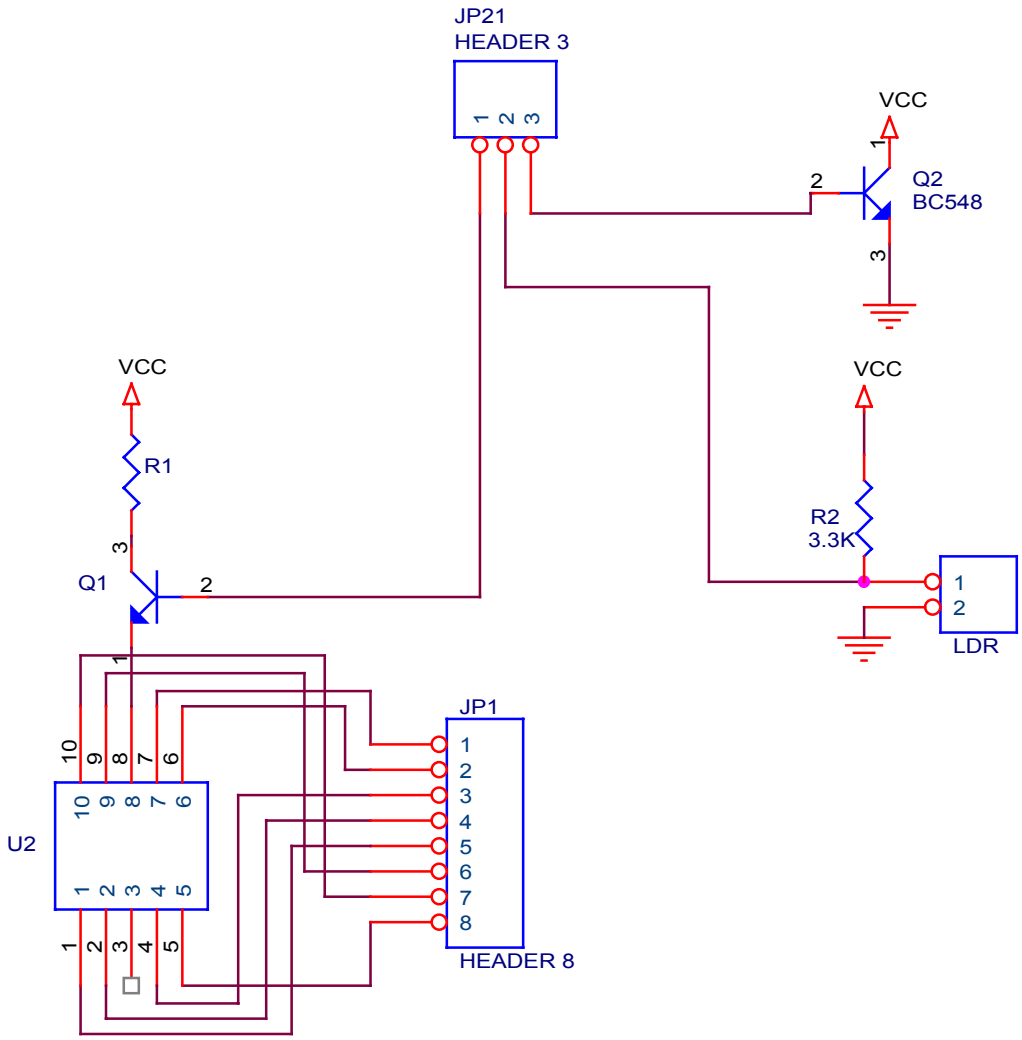
RS232 Schematics



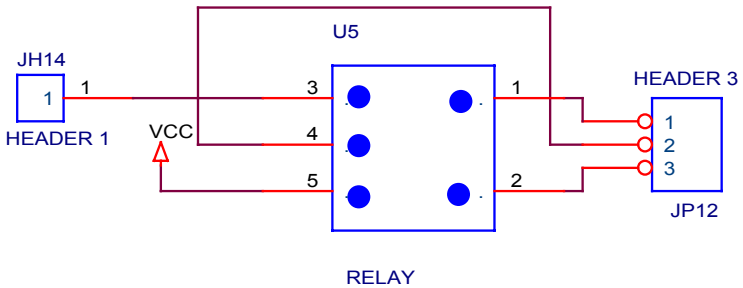
LED Schematics



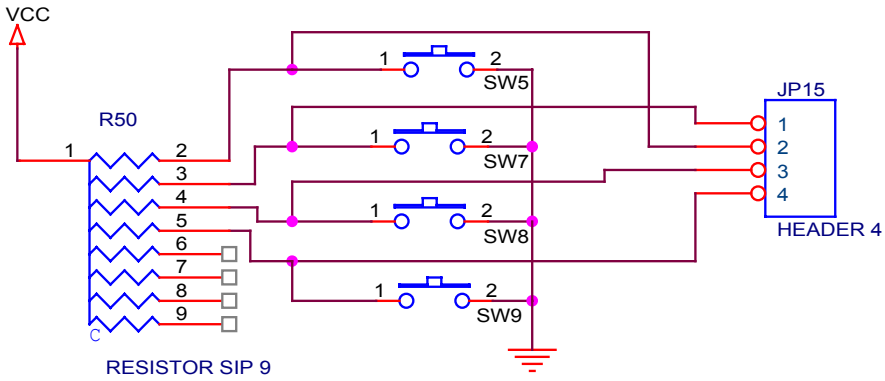
Seven Segment Display and LDR Schematics



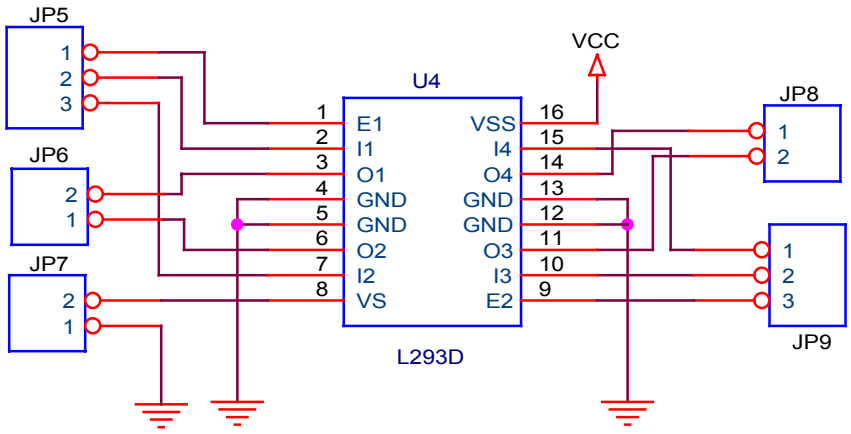
Relay Schematics



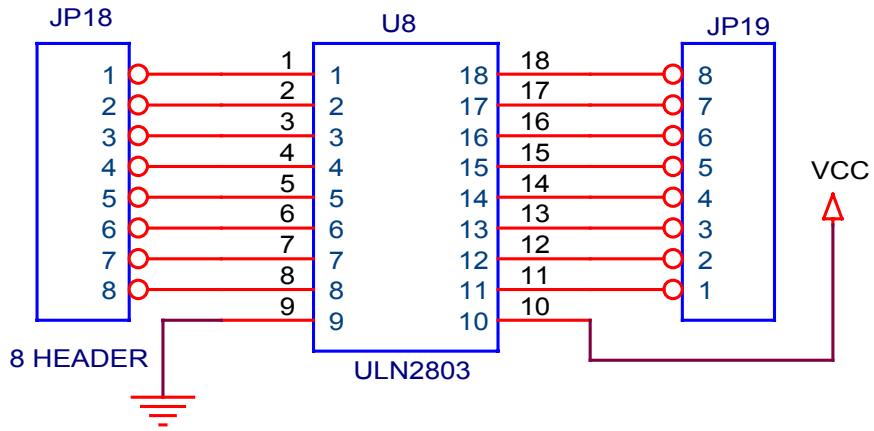
Switch Schematics



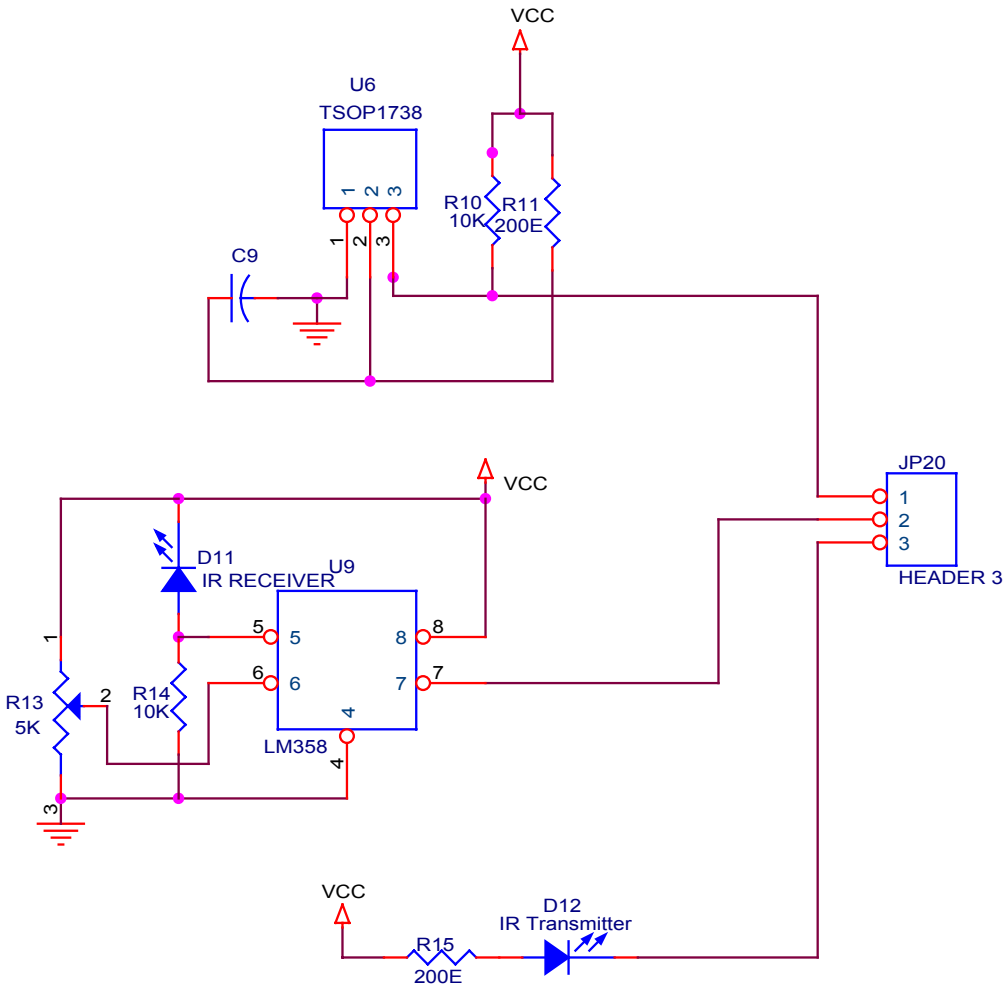
DC Motor Driver Schematics



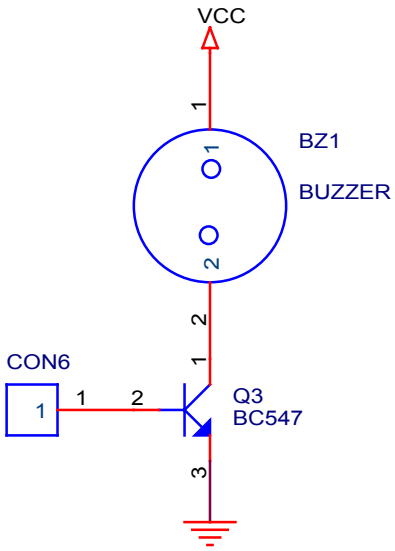
ULN2803 for Stepper Motor & Seven Segment Driver Schematics



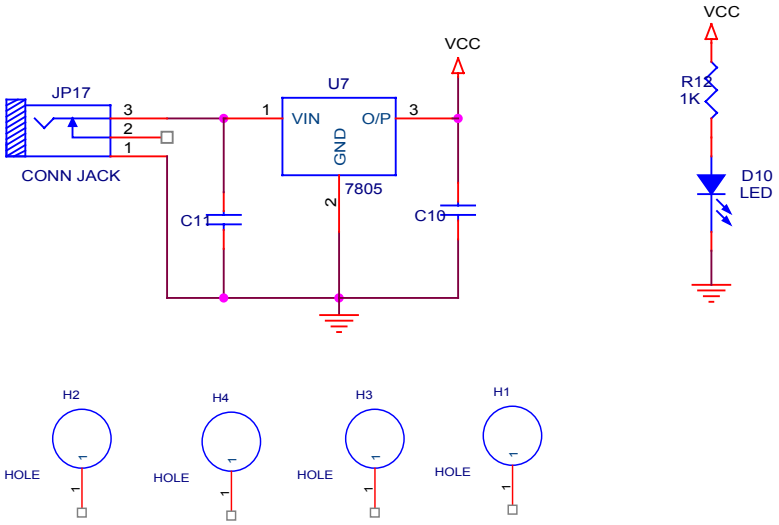
IR Transmitter, Receiver & 38KHz IR Receiver Schematics

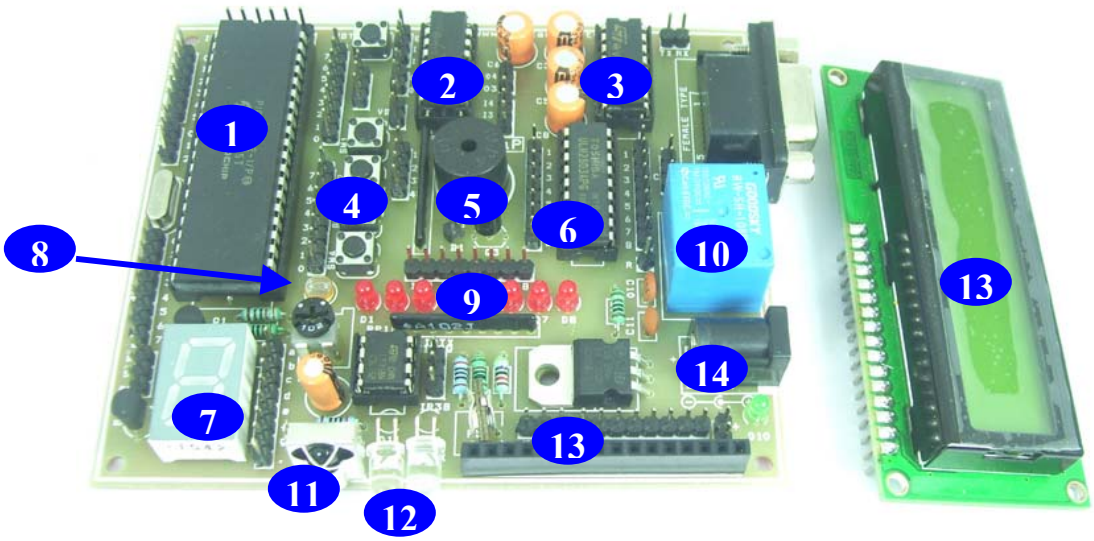


Buzzer Schematics



Power Supply Schematics





1. Target PIC18F452 with ICSP Header above IC notch
2. L293D DC Motor Driver
3. RS232
4. Switches
5. Buzzer
6. ULN2803
7. Seven Segment Display
8. LDR
9. LEDs
10. Relay
11. TSOP1738 38 KHz IR receiver
12. IR Receiver (left) & IR Transmitter LED (right)
13. LCD & LCD Place holder
14. Power supply & Voltage regulator