

Lab Driving LCD Displays with PIC

This lab will illustrate use of PIC DIP microcontroller and MPLAB in the process of C code, execution and debug of an LCD 4x16 Character module. Code and hardware setups are indicated.

Part 1A

Integrate an LCD to the PIC DIP as shown

Make sure to use potentiometer provided as contrast control. Use PIC DIP pin out as shown
 Before power up, show your construction to instructor. Use external power supply of +5V
 Power up and adjust contrast for readability
 Instructor Signoff _____

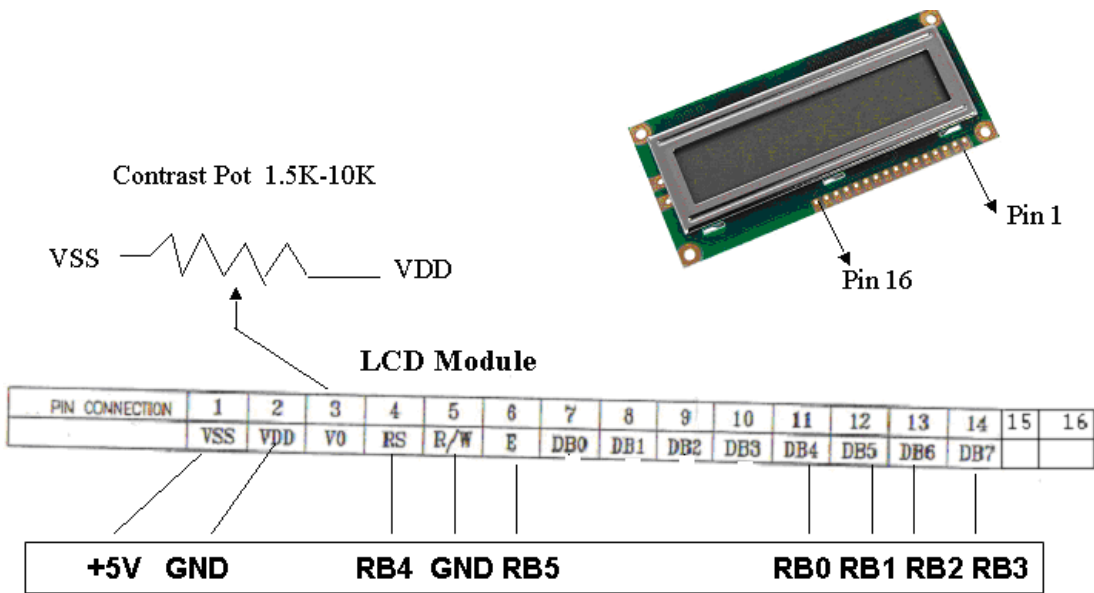
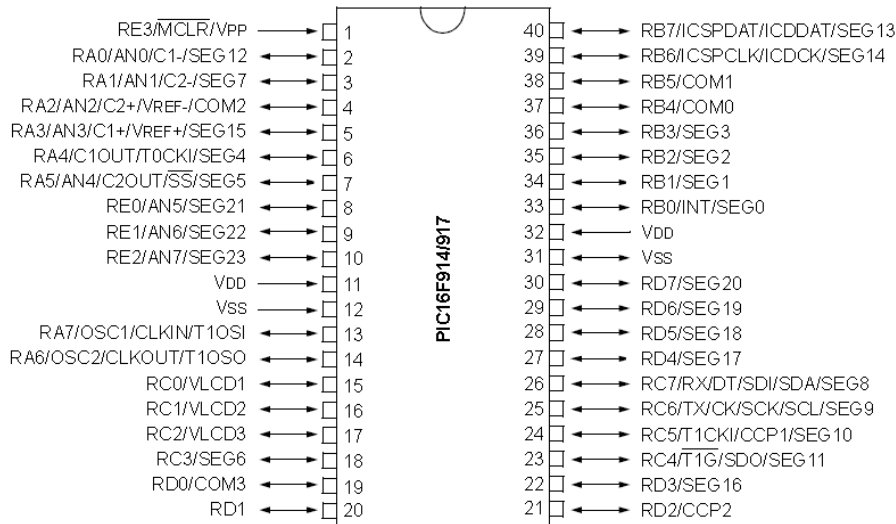


Figure 1 Hook-up Instructions

40-pin PDIP



PART1B

- Open LCD.MCP –build, debug with PICd DIP and debug
- Run
- What is the message displayed?

- Demo to Instructor

- Instructor Signoff

- Attempt to change message (see XXXMessage[])in code
 - Change top message
 - Change second message
 - Change third message
 - Change fourth message

- Demo change to instructor

- Instructor signoff