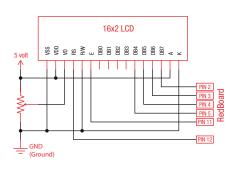
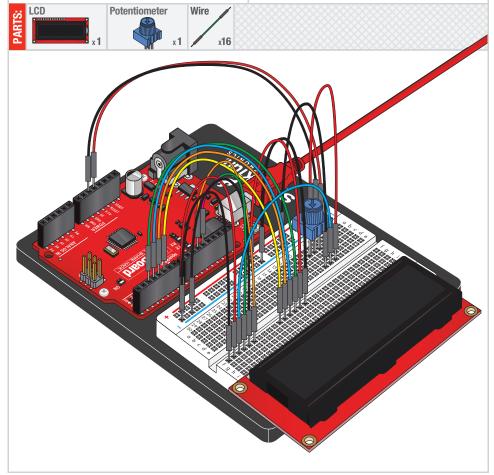
CIRCUIT #15



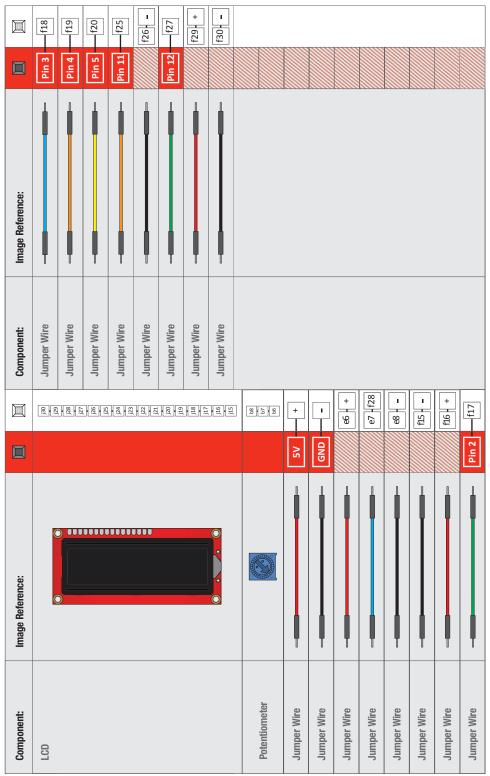


LCD

In this circuit, you'll learn about how to use an LCD. An LCD, or liquid crystal display, is a simple screen that can display commands, bits of information, or readings from your sensor - all depending on how you program your board. In this circuit, you'll learn the basics of incorporating an LCD into your project.



Circuit 15: LCD



Page 79

15

Arduino Code:



Open Arduino IDE // File > Examples > SIK Guide > Circuit # 15

Code to Note



#include <LiquidCrystal.h>



This bit of code tells your Arduino IDE to include the library for a simple LCD display. Without it, none of the commands will work, so make sure you include it!

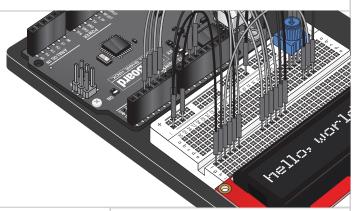
lcd.print("hello, world!");



This is the first time you'll fire something up on your screen. You may need to adjust the contrast to make it visible. Twist the potentiometer until you can clearly see the text!

What you Should See:

Initially, you should see the words "hello, world!" pop up on your LCD. Remember you can adjust the contrast using the potentiometer if you can't make out the words clearly. If you have any issues, make sure your code is correct and double-check your connections.



Troubleshooting:

The Screen is Blank or Completely Lit?

Fiddle with the contrast by twisting the potentiometer. If it's incorrectly adjusted, you won't be able to read the

Not Working At All?

Double check the code, specifically that you include the LCD library.

Screen Is Flickering

Double check your connections to your breadboard and Arduino.

Real World Application:

LCDs are everywhere! From advanced LCDs like your television, to simple notification screens, this is a very common and useful display!

