Solution for Sainsmart LCD2004 on a MEGA 2560

Instructions

1. Order parts from Shopping List.
2. Download Arduino Editor and install, then download:

http://arduino-info.wikispaces.com/file/detail/LiquidCrystal_I2C2004V1.zip

3. Unzip file. Move the folder LiquidCrystal_I2C2004V1 to your Arduino editor install folder, in subfolder "libraries".
4. Open editor and type in sketch (below).
5. Hook up 4 wires to Arduino MEGA 2560 as shown.
6. Plug Arduino into computer via USB Cable
7. Compile and download sketch to Arduino.
8. 0x3F should work but I've read if anything's wrong it's that.
9. Adjust contrast with blue "pot" and small screw driver.
10. Yank that stupid LED pin. Why put that on the back where you can't see it?

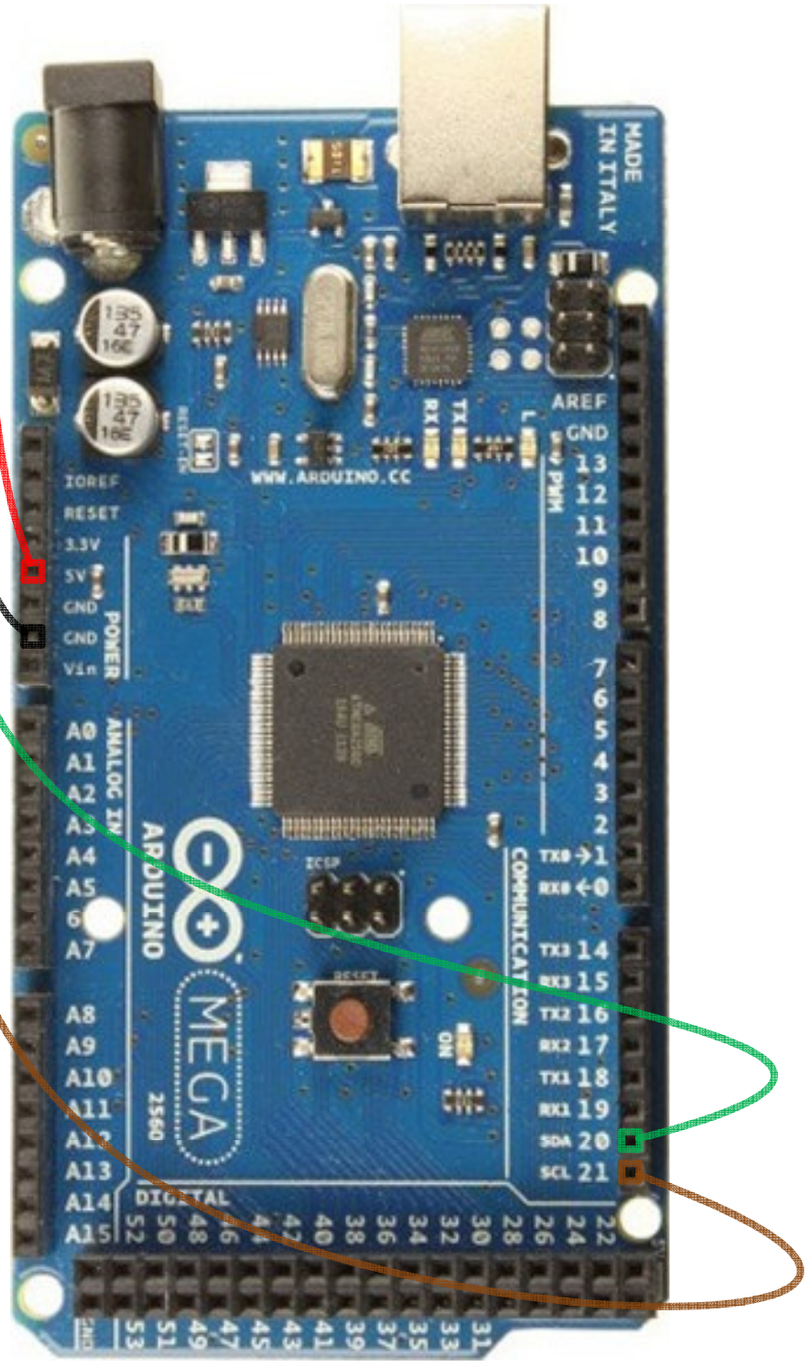
```
// LCD2004 + MEGA 2560 Sketch

#include <Wire.h>
#include <LiquidCrystal_I2C.h>
LiquidCrystal_I2C lcd(0x3F,20,4);
void setup(){
  lcd.init();
  lcd.backlight();
  lcd.setCursor(3,0);
  lcd.print("Hello, world!");
  lcd.setCursor(2,1);
  lcd.print("SainSmart for UNO");
   lcd.setCursor(2,2);
  lcd.print("SainSmart LCM IIC");
   lcd.setCursor(1,3);
  lcd.print("Design By SainSmart");
}
void loop(){}
```

SainSmart LCD Module for Arduino 20 x 4, White on Blue

Shopping List

1. Arduino MEGA 2560
2. 4 Circuit Wires
3. Sainsmart LCD2004 (see above).
4. USB Cable (Rectangular to flat)
5. Arduino Editor (free download)
6. Latest LCD_I2C Library (free download)



Arduino Mega 2560

Open Source – *by Lawrence O. Kilgore*

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