

TROUBLESHOOTING

The screen is blank or flickering

Adjust the contrast by twisting the potentiometer. Try both directions until you see characters display. Do not twist the potentiometer past its stopping points. Also, check the potentiometer, and make sure it's wired correctly.

Not working at all

Double check the circuit's wiring. There are a lot of wires in this circuit, and it's easy to mix up one or two.

Rectangles in first row

If you see 16 rectangles (like “■”) on the first row, it may be due to the jumper wires being loose on the breadboard. This is normal and can happen with other LCDs wired in parallel with a microcontroller. Make sure that the wires are fully inserted into the breadboard, then try pressing the reset button and adjusting the contrast using the potentiometer.

Still not working?

Jumper wires unfortunately can go “bad” from getting bent too much. The copper wire inside can break, leaving an open connection in your circuit. If you're certain that your circuit is wired correctly and that your code is error-free and uploaded but you are still encountering issues, try replacing one or more of the jumper wires for the component that is not working.

You've completed
Circuit 4A!

Continue to circuit 4B to learn about using temperature sensors.

LCD “HELLO, WORLD”

TEMPERATURE SENSOR

“DIY WHO AM I” GAME

