This is the Revision A version of the LCD32 RoboBrick. The status of this project is work in progress.

LCD32 Robobrick (Revision B)

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This document is also available in PDF format.

1. Introduction

The LCD32 RoboBrick is a RoboBrick that can output up to 32 character as 2 lines of 16 characters each to a Liquid Crystal Display. This RoboBrick is based on the Ampire AC162A available from Jameco as part number 171715.
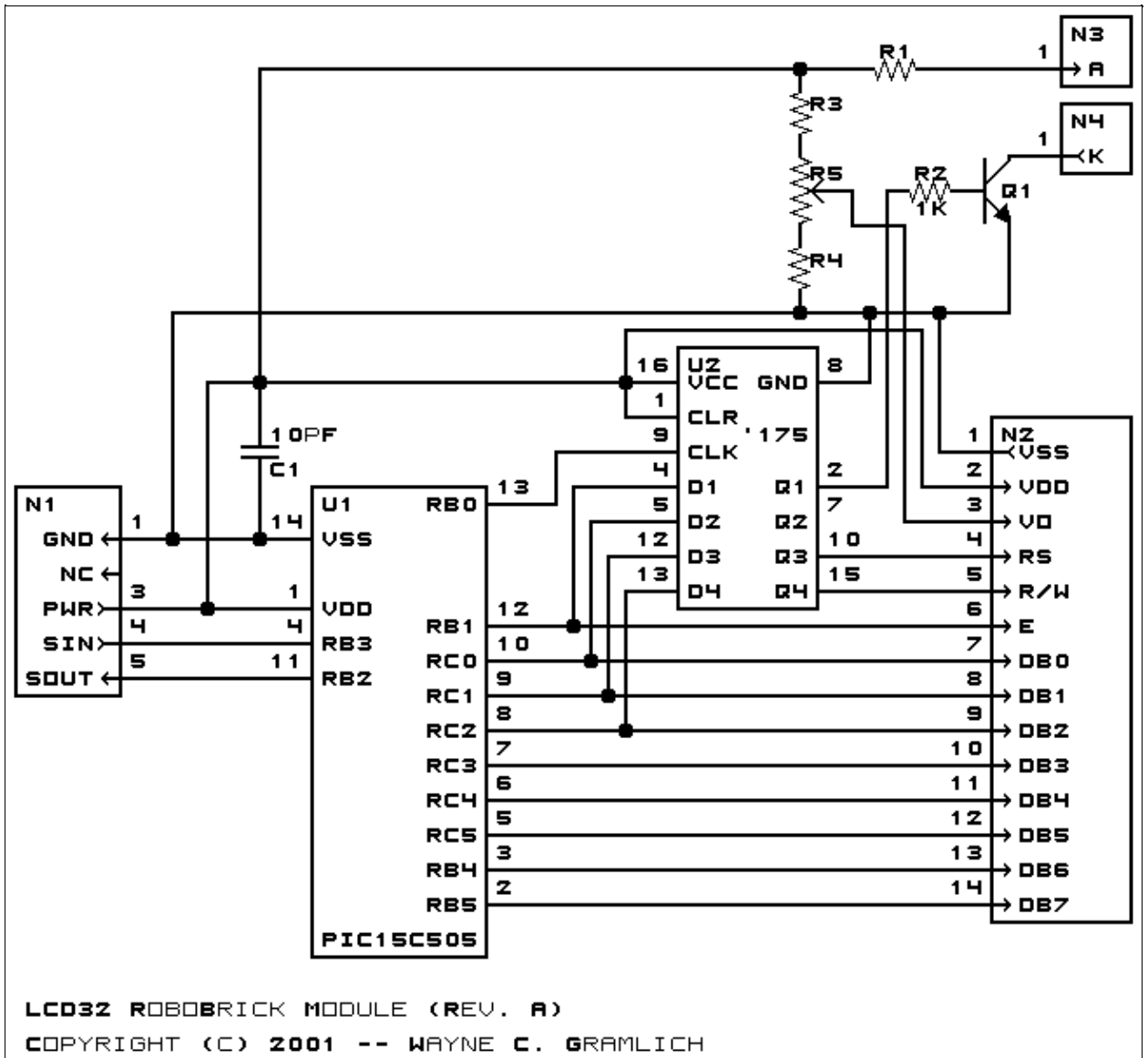
2. Programming

There is no programming specification yet.

3. Hardware

The hardware consists of a circuit schematic and a printed circuit board.

3.1 Circuit Schematic

The schematic for the LCD32 RoboBrick is shown below:

LCD32 ROBOBRICK MODULE (REV. A)
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The parts list kept in a separate file –– lcd32.ptl.

3.2 Printed Circuit Board

The printed circuit board files are listed below:

lcd32_back.png
    The solder side layer.
lcd32_front.png
    The component side layer.
lcd32_artwork.png
    The artwork layer.
lcd32.gbl
    The RS–272X "Gerber" back (solder side) layer.
lcd32.gtl
    The RS–272X "Gerber" top (component side) layer.
lcd32.gal

The RS−272X "Gerber" artwork layer.

lcd32.drl
 The "Excellon" NC drill file.

lcd32.tol
 The "Excellon" tool rack file.

4. Software

There is no software yet.

5. Issues

Any fabrication issues that come up are listed here.