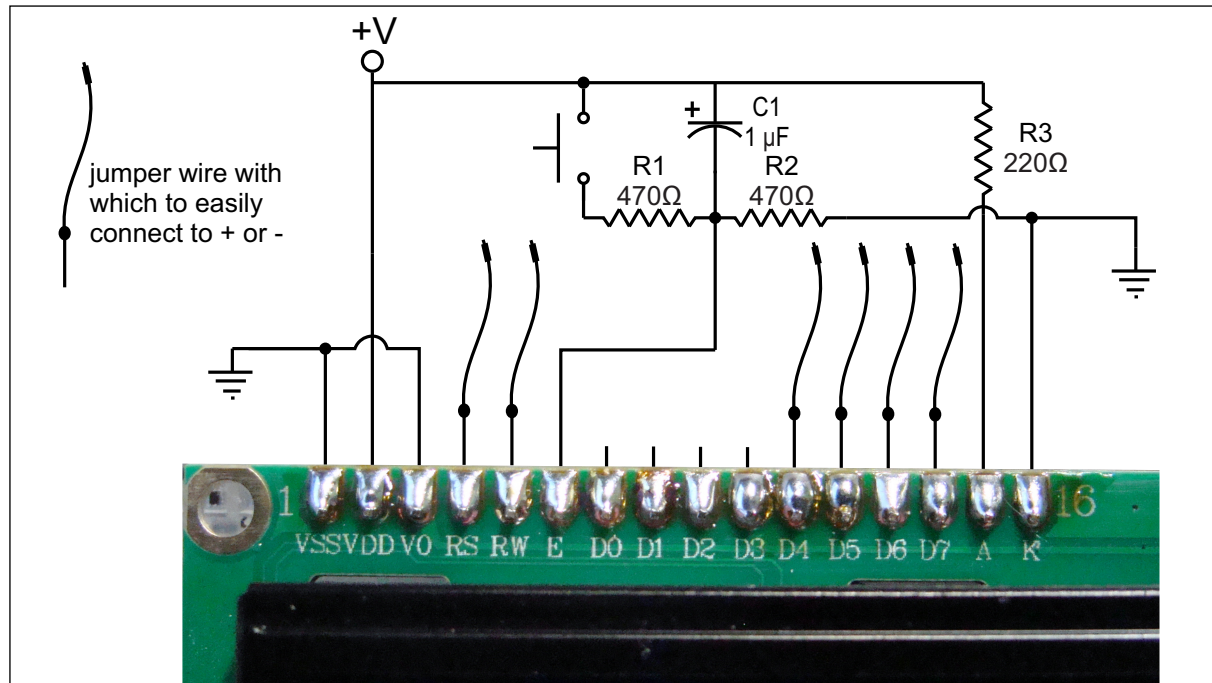


LCD manual drive schematic



Optional: Putting a variable resistor from V0 to ground will allow you to control the contrast.

CGRAM address
(cursor addresses)

00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
40	41	42	43	44	45	46	47	48	49	4A	4B	4C	4D	4E	4F

The address of the character block is set by sending a 1 byte command with bit 7 high and the lower 7 bits indicating the address for the cursor. For example, to put the cursor at the first location of row two, we have an address of H40 = B0100 0000. We need to set bit 7 high which turns it into a command, so sending a 1100 0000 to the display with the RS line 0 and RW line 0 will set the cursor to the first location of row two. Sending a 1100 1111 would set the cursor to the 16th position of row two.