Input Repeat ~~OE~~ 1 +

~~Input Shift Lock~~ +

Input/output X1 → X9: 9 + Input/output Y1 – Y10: 10 + Input Shift: 1 + Input Control(Ctrl): 1 + output Strobe: 1 + output DataOut: 9

= 32

Not Needed

Bounce Mask (17)

~~Strobe Control~~

~~Shift Lock~~

~~Repeat Clock~~

Used Other Pins

Clock (3)

Lost Function!

~~Shift Lock (20)~~

Strobe Control (14)

~~Repeat~~ ~~Auto DATA~~

OE (15)

5740 PIN ASSIGNMENTS

(9) X9 – X1 = 4 – 12

(10) Y1 – Y10 = 23 – 31, 22

(9) Data 1-8 = 37-38, 1, 40, 33-36, ~~39~~ 39

(1) REPEAT = 16

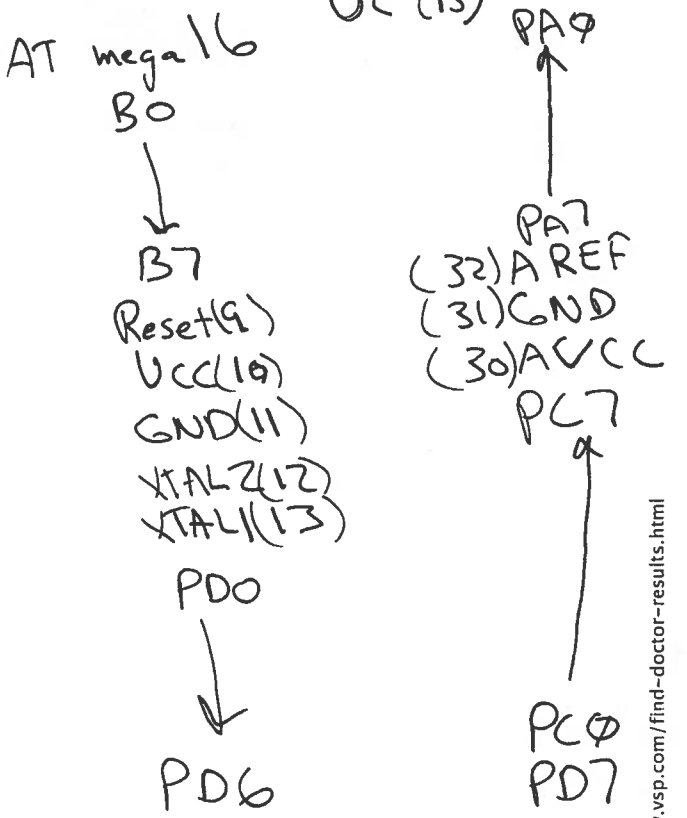
(1) Shift = 21

(1) Control(Ctrl) = 19

(1) Strobe = 13

~~Shift Lock = 20~~

ATMEGA16-16PU



USED

Pins ~~to Reconfigure~~ on AVR that must be rerouted

9 (was X4)
10 (was X3)
11 (was X2)
12 (was X1)
13 (was strobe)
30 (was Y8)
31 (was Y9)
32 (was +5Volts)

Need to be lifted
3 (was CLK)
17 (Bounce Mask)
20 (Shift lock) Not Necessary on Datemetics or Apple (NC)
32 (+5V)
12 (GND)
18 (-12V) !
15 (OE)
~~20 (Shift lock)~~
14 (strobe ~~output~~ control)

10 +5V
11+31 - GROUND

PINS Left alone

	MM5740		AVR
1	D3	(O)	B0
4	X9	(I/O)	B3
5	X8	(I/O)	B4
6	X7	(I/O)	B5
7	X6	(I/O)	B6
8	X5	(I/O)	B7
16	repeat	(I)	D2
19	Control	(I)	D5
21	Shift	(I)	D7
22	Y10	(I/O)	C0
23	Y1	(I/O)	C1
24	Y2	(I/O)	C2
25	Y3	(I/O)	C3
26	Y4	(I/O)	C4
27	Y5	(I/O)	C5
28	Y6	(I/O)	C6
29	Y7	(I/O)	C7
33	D5	(O)	A7
34	D6	(O)	A6
35	D7	(O)	A5
36	D8	(O)	A4
37	D1	(O)	A3
38	D2	(O)	A2
39	D9	(O)	A1
40	D4	(O)	A0

Y Input/output to Matrix (pins 22–29)

Data out (pins 33–40)

+ D3 → B0 AVR (PIN 1)

Your itinerary

AVR PINS
X1 → D3 17
X2 → D4 18
X3 → B1 2
X4 → B2 3

AVR PIN
Strobe → D6 20

+5V
32 → AVR PIN 10
Ground
2 → AVR PIN 11 + 31

AVR (14-15) pins
Y8 → D0
Y9 → D1