pins are numbered counter clockwise from ground pin

board #	arduino #	shag function	notes
1	GND		
2	0	reserved	
3	1	estop	
4	2	config 7	ratio bit 0
5	3	step signal out	
6	4	direction signal out	
7	5	joystick A	
8	6	joystick B	
9	7	knob encoder 2 A	
10	8	config 6	ratio bit 1
11	9	limit A	
12	10	limit B	
13	11	config 4	seek home option
14	12	joy speed choice A	
15	13	onboard LED	
16	14	joy speed choice B	
17	15	knob encoder 3 A	
18	16	reserved	
19	17	knob encoder 2 B	
20	18	knob encoder 1 A	
21	19	test mode switch?	
22	20	knob encoder 1 B	
23	21	knob encoder 3 B	
24	22	Slave outA	
25	23	Slave out B	
26	3.3v out		
27	AGND		
28	VCC +5		