

BRAIN			BUTTONS			UNO		
pins	component	function	pins	component	function	pins	component	function
2			2			2	TM 1637 CLK	OUTPUT
3	BUTTONS pin 3	COMMUNICATION	3	BRAIN pin 3	COMMUNICATION	3	TM 1637 DIO	OUTPUT
4	BUTTONS pin 4	COMMUNICATION	4	BRAIN pin 4	COMMUNICATION	4		
5	BUTTONS pin 5	COMMUNICATION	5	BRAIN pin 5	COMMUNICATION	5		
6	BUTTONS pin 6	COMMUNICATION	6	BRAIN pin 6	COMMUNICATION	6		
7	BUTTONS pin 7	COMMUNICATION	7	BRAIN pin 7	COMMUNICATION	7	BRAIN pin 44	COMMUNICATION
8	BUTTONS pin 8	COMMUNICATION	8	BRAIN pin 8	COMMUNICATION	8	BRAIN pin 37	COMMUNICATION
9	BUTTONS pin 9	COMMUNICATION	9	BRAIN pin 9	COMMUNICATION	9	BRAIN pin 39	COMMUNICATION
10	RX MP3	OUTPUT	10			10	BRAIN pin 41	COMMUNICATION
11	TX MP3	OUTPUT	11			11	BRAIN pin 43	COMMUNICATION
12	BUTTONS pin 12	COMMUNICATION	12	BRAIN pin 12	COMMUNICATION	12	BRAIN pin 45	COMMUNICATION
13	BUTTONS pin13	COMMUNICATION	13	BRAIN pin 13	COMMUNICATION	13		
22	rail end sensor Xi axis	INPUT	22	P1B	INPUT			
24	rail end sensor Yi axis	INPUT	24	P1C	INPUT			
26	rail end sensor Xd axis	INPUT	26	P2B	INPUT			
28	rail end sensor Yd axis	INPUT	28	P2D	INPUT			
30			30	P3A	INPUT			
32	Pirze box servo	OUTPUT	32	P3D	INPUT			
34			34	P4A	INPUT			
36			36	P4C	INPUT			
38			38	P1W	INPUT			
40			40	P2W	INPUT			
42			42	P3W	INPUT			
44	UNO pin 7	COMMUNICATION	44	P4W	INPUT			
46	In 1 stepdown	OUTPUT	46	P1A	INPUT			
48	In 2 stepdown	OUTPUT	48	P1D	INPUT			
50	In 3 stepdown	OUTPUT	50	P2A	INPUT			
52	In 4 stepdown	OUTPUT	52	P2C	INPUT			
23	steps NEMA X axis	OUTPUT	23	P3B	INPUT			
25	direct NEMA X axis	OUTPUT	25	P3C	INPUT			
27	steps NEMA Y axis	OUTPUT	27	P4B	INPUT			
29	direct NEMA Y axis	OUTPUT	29	P4D	INPUT			
31	steps NEMA rot. table	OUTPUT	31					
33	direct NEMA rot. table	OUTPUT	33	P1 START	INPUT			
35			35	P2 START	INPUT			
37	UNO pin 8	COMMUNICATION	37	P3 START	INPUT			
39	UNO pin 9	COMMUNICATION	39	P4 START	INPUT			
41	UNO pin 10	COMMUNICATION	41					
43	UNO pin 11	COMMUNICATION	43	Panic button	INPUT			
45	UNO pin 12	COMMUNICATION	45					
47	rot. table CUBE	INPUT	47					
49	LEDs, red	OUTPUT	49					
51	LEDs, green	OUTPUT	51					
53	LEDs, blue	OUTPUT	53					