

Header		RPi GPIO	USE
1	13	21	LA-DIR LA-DIR
2	14	21 GND	LA-MOT GND
3	11	20	LA-MOT — } LP Re output
4	12	GND	GND
5	9	16	SWITCH SWITCH
6	10	GND	GND
7	7	3V3 3V3	SWITCH 3V3
8	8	GND GND	GND
9	5	22	STP-DIR
10	6	GND GND	GND GND
11	3	27	STP-EN
12	4	GND	GND
13	1	17	STP-MOT
14	2	GND	GND

2	4	6	8	10	12	14
0	0	0	0	0	0	0
0	0	0	0	0	0	0
1	3	5	7	9	11	13

RPi GPIO/signal			
14	YEL GND	GND	orange wire
13	OR	21	LA-DIR orange wire
12	RED	GND	brown wire
11	BRN	20	LA-MOT — LP Re filter
10	BLK	GND	red wire
9	WHT	16	SWITCH yellow
8	GRY	GND	OK RED
7	PUR	3V3	3V3 red
6	BLU	GND	blk blk
5	GRN	22	STP-DIR
4	YEL	GND	
3	OR	27	STP-EN
2	RED	GND	
1	BRN	17	STP-MOT

17	27	22	3V3
0	0	0	0
Br	O	G	Y

Current GRID
 * . c

Flow

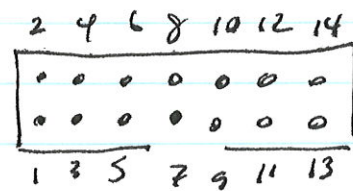
Linear actuator
 20 - PWM drive
 21 - DIR
 GND - GND

linear actuator
 PWM.c 16 or input 20
 moves.c 22 DIR
 16 or input 16

Zero.c 22 DIR
 27 ENABLE
 17 MOTOR

Steppers

26 SWITCH
 → make 20 16



20 in use
 ? 21

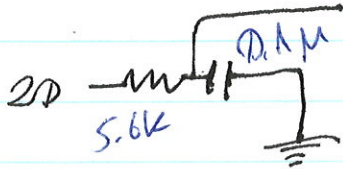
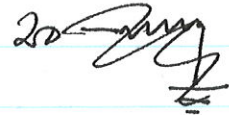
? 26
 ? 19

- 1 Brown
- 2 Red
- 3 Orange
- 4 Yellow
- 5 Green
- 6 Blue
- 7 Purple
- 8 Gray
- 9 White
- 10 black
- 11 brown
- 12 red
- 13 orange
- 14 yellow

Cable grey
 17 MOT
 27 EN
 22 DIR
 3V3
 GND
 20

Breadboard

✓
 ✓
 ✓
 ✓
 ✓
 ✓



16

✗

19 N/A

✓

21 LA DIR

Stepper cable

Silver Side mark	Yellow PUL+, ENA+ 3V3	Black DIR+	Green ENA-	Red PUL-
RR: ribbon	purple 3V3	green 22 STP-DIR	orange 27 STP-EN	Brown 17 STP-MOD

