

Robot Wiring Order

tested

Sensor 1

Red = Vin
Orange = GND
Green = SCL
Blue = SDA
Yellow = XSHUT

Sensor 2

Red = Vin
Orange = GND
Green = SCL
Blue = SDA
Yellow = XSHUT

Sensor 3

Brown = Vin
White = XSHUT
Black = GND
Gray = SDA
Violet = SCL

Sensor 4

Brown = SDA
White = XSHUT
Black = SCL
Gray = GND
Violet = Vin

Red	Motor 1A
Orange	Motor 1B
Yellow	Motor 2A
Green	Motor 2B
Blue	Motor 3A
Violet	Motor 3B
Gray	Motor 4A
White	Motor 4B
Black	GND
w/white Red	5V
Orange	SDA
Yellow	SCL
Green	XSHUT1
Blue	XSHUT2
Violet	XSHUT3
Gray	XSHUT4
White	Stepper A X Brown
Black	Stepper B
w/Black Red	Stepper C
Orange	Stepper D X Brown/White
Yellow	
Green	
Blue	
Violet	
Gray	
White	X
Black	X

Unused

Light Blue
Black/Blue GND
Gold
Yellow/Green 5V

GND
VDD
1B
1A
2A
2B
GND
Vmot

DIR
STEP
SLEEP
RESET
MS3
MS2
MS1
EN

Name _____

Sheet No. _____ of _____

For robot wiring

Date 3/30/22

motor shield-

M1 - motor 1, top right

M2 - motor 2, bottom right

M3 - motor 3, bottom left

M4 - motor 4, top left

* orientation of bot is down
from top with notch at top



Vin - $\pm 12V$ from rail/battery

Servo1 - Voicing servo, external $\pm 5V$ from regulator

Servo2 - grabber servo, $\pm 5V$ from shield

- running separate $\pm 5V$ for servos
Gnd, Pwr, Signal

- all sensor lines passthrough to respective
board pins

Hodge Podge board-

$\pm 12V$ - power rail

$\pm 5V$ - out

DC Driver - in1 - Pin 11

in2 - Pin 12

Out1 - motor 5

Out2 - motor 5



Name _____

Date _____

For _____

Hodge Page board cont. -

Stepper driver 1 -

1 A - raising arm 1 A

1 B - raising arm 1 B

2 A - raising arm 2 A

2 B - raising arm 2 B

Step - A1

Dir - A0

Stepper driver 2 -

1 A - Base 1 A

1 B - Base 1 B

2 A - Base 2 A

2 B - Base 2 B

Step - A3

Dir - A2