Motor

Black motor -

Red motor +

Green ground sensor

Brown channel B

Yellow channel A

Orange sensor voltage 5V

Speed controller (red)

Motor

Out 1 motor -

Out 2 motor +

ENA Arduino D8

IN1 Arduino D9

IN2 Arduino D10

+12V battery +

GND ground

+5V Arduino 5V



Potentiometer

1 data to A0

2 power to Arduino 5V

3 ground to Arduino ground

Arduino

5V 5V bank on breadboard

GND ground bank on breadboard

A0 pin 1 on Potentiometer

D10 IN2 on speed controller

D9 IN1 on speed controller

D8 ENA on speed controller

D3 channel A

D2 channel B