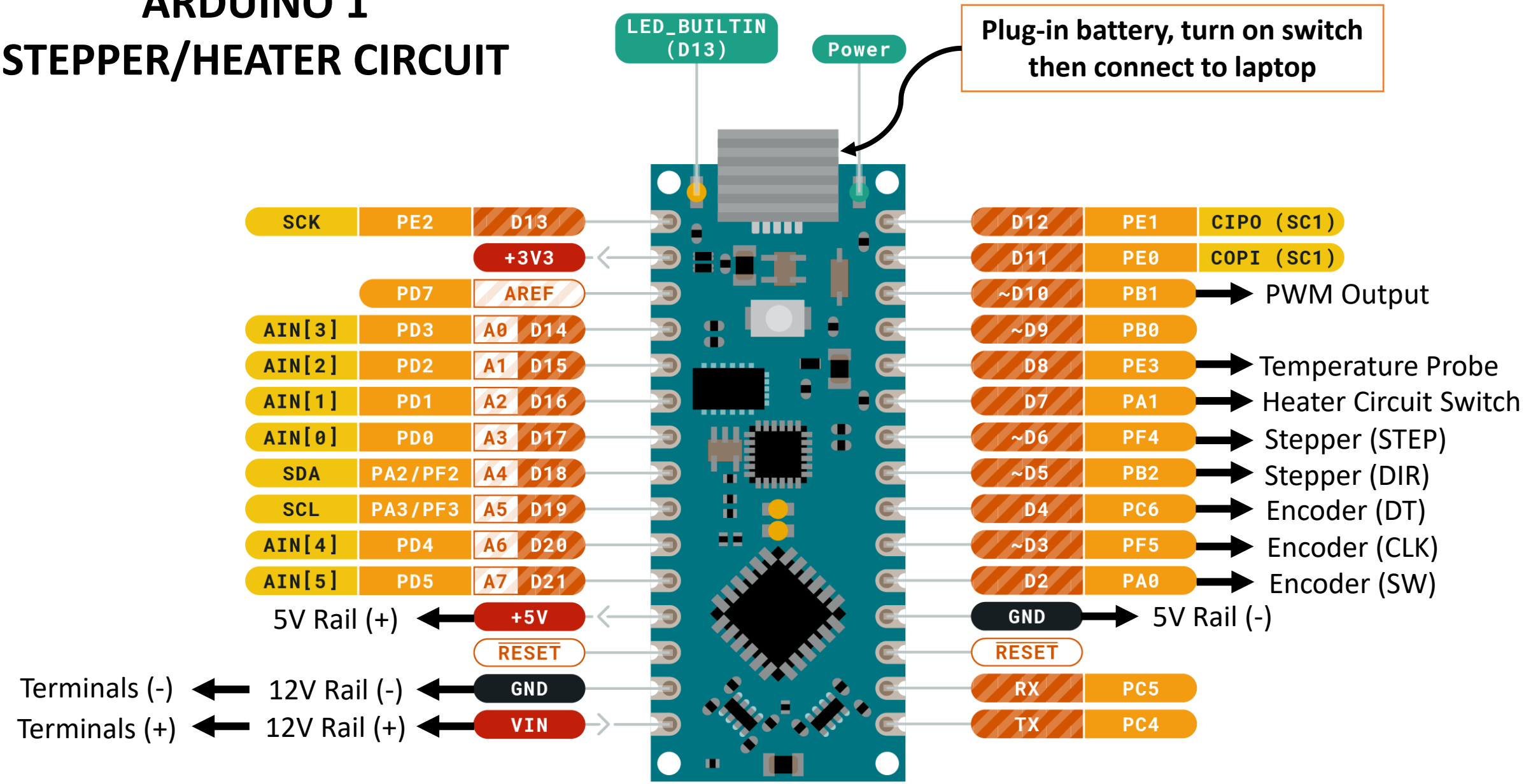
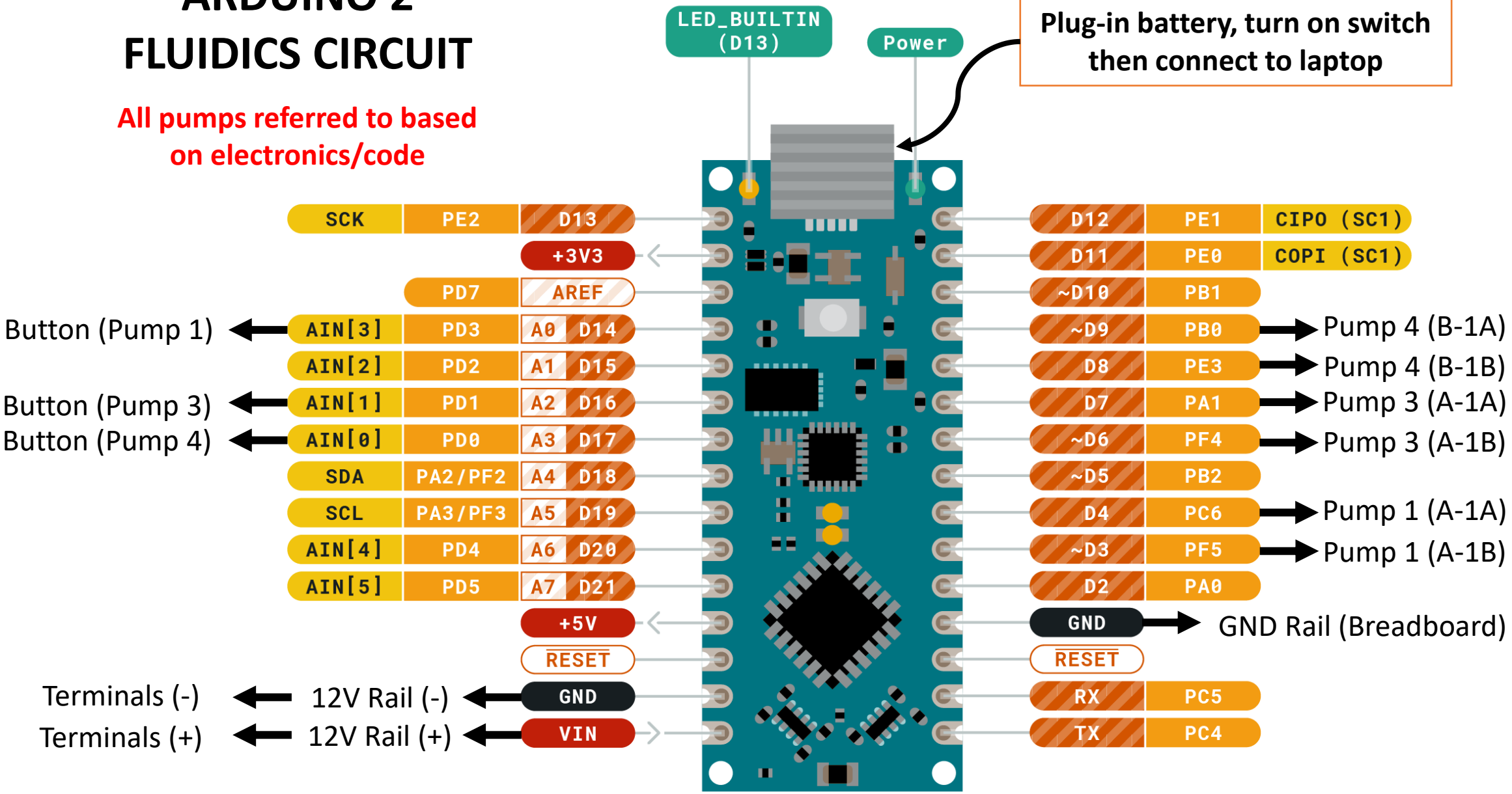
ARDUINO 1
STEPPER/HEATER CIRCUIT

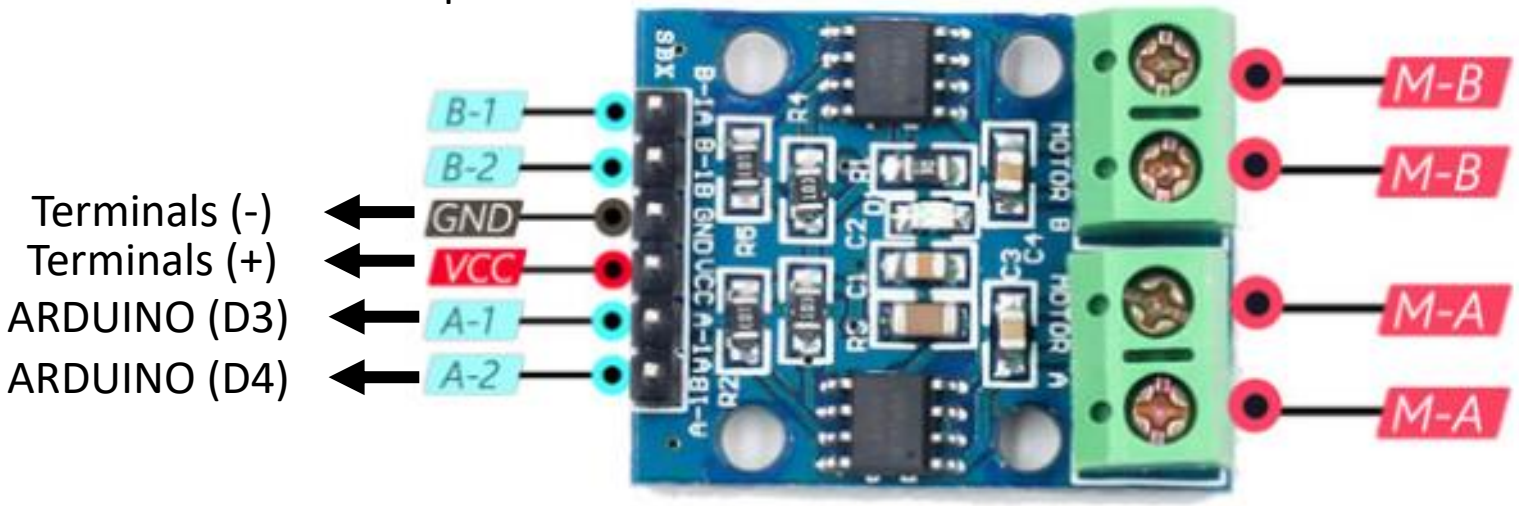


ARDUINO 2
FLUIDICS CIRCUIT

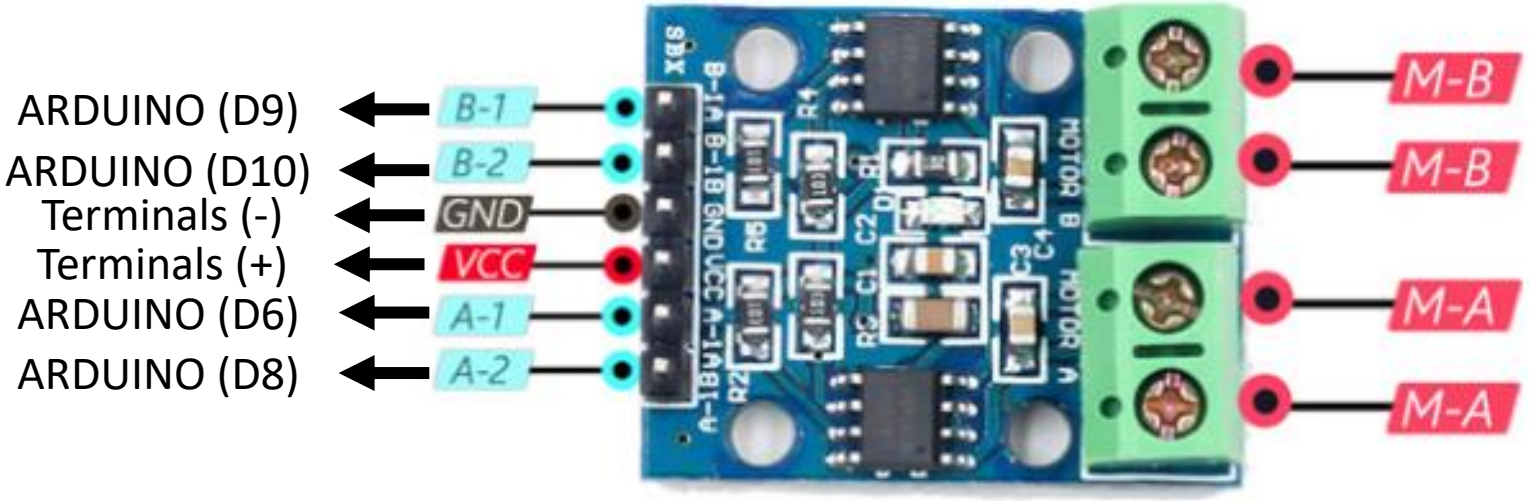
All pumps referred to based on electronics/code



Motor Driver 1: “1” on white tape

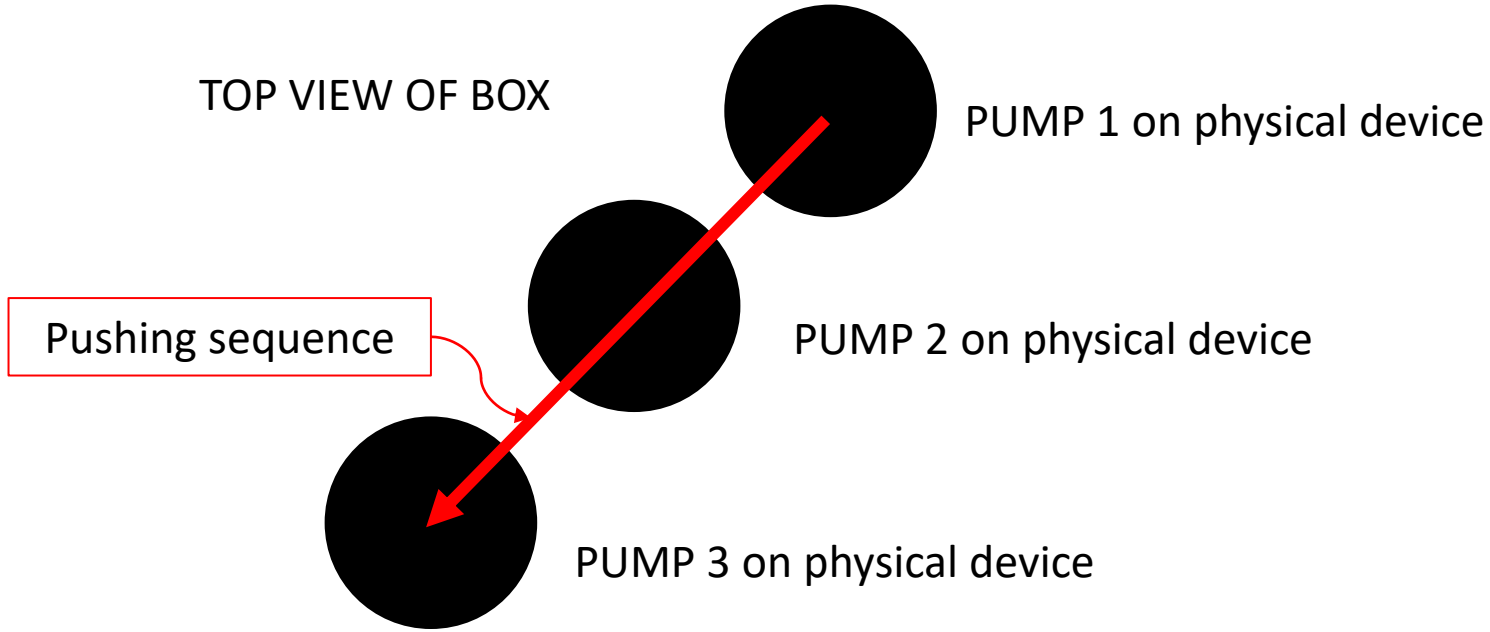


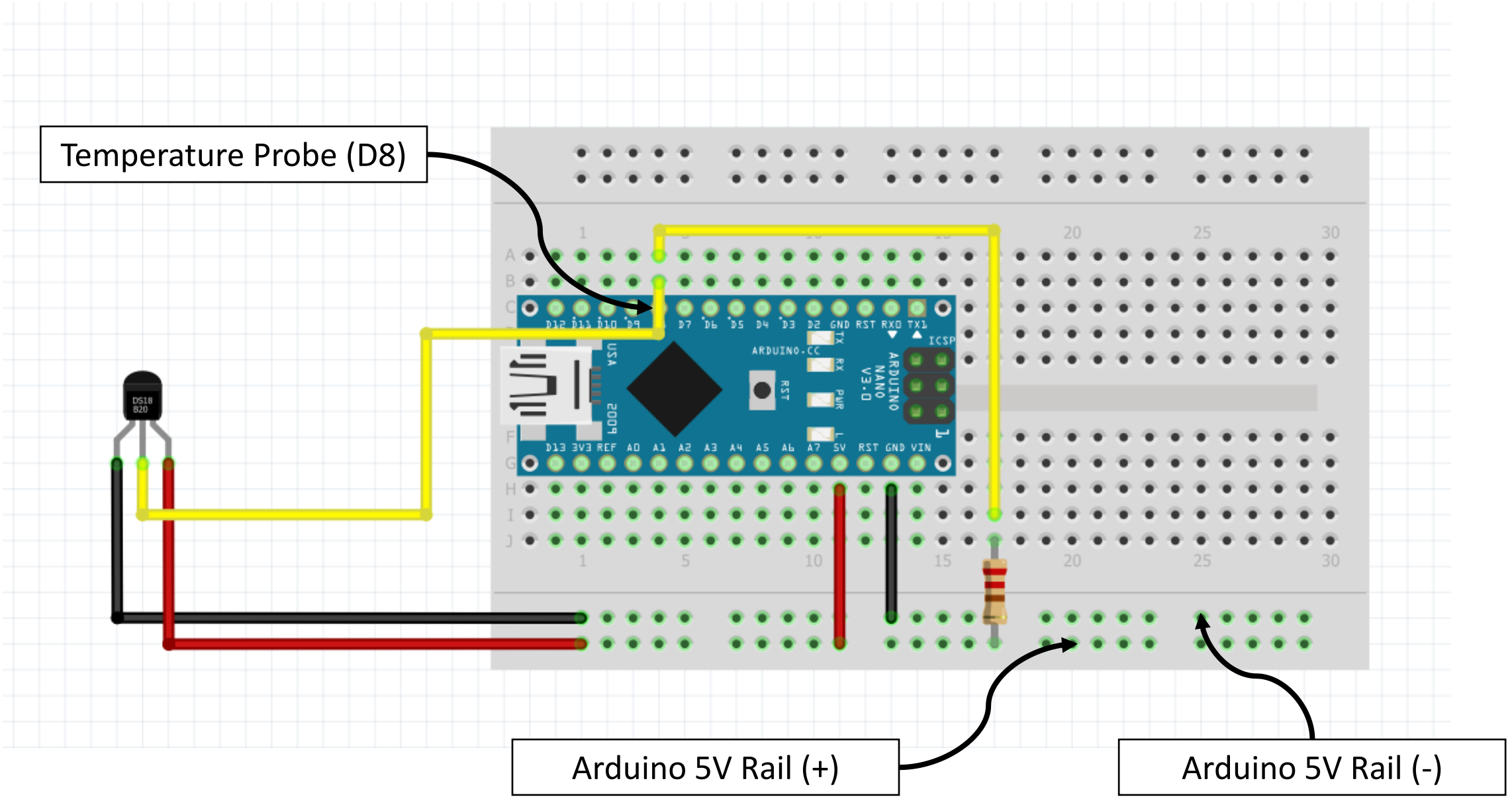
Motor Driver 2: “3 4” on white tape

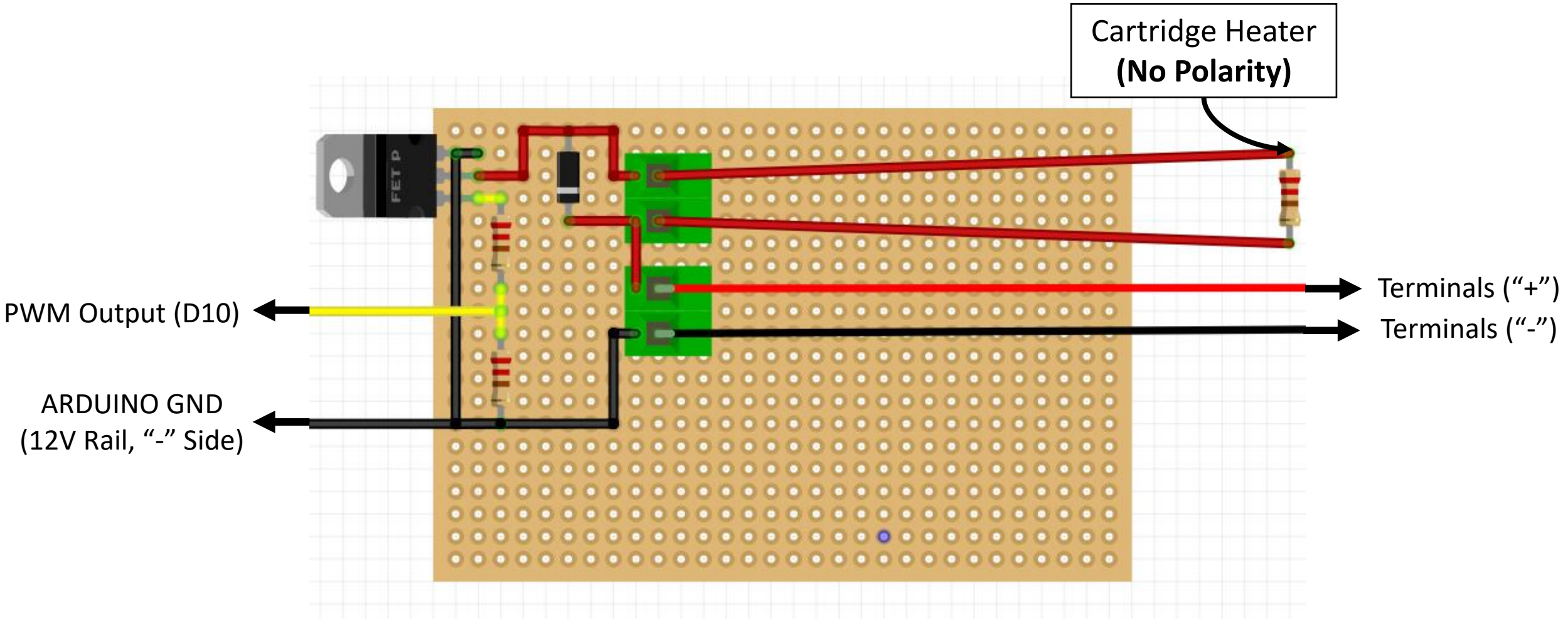


PUMP 4 (ELECTRONICS CIRCUIT AND CODE) is PUMP 1 in the physical device
PUMP 3 (ELECTRONICS CIRCUIT AND CODE) is PUMP 2 in the physical device
PUMP 1 (ELECTRONICS CIRCUIT AND CODE) is PUMP 3 in the physical device

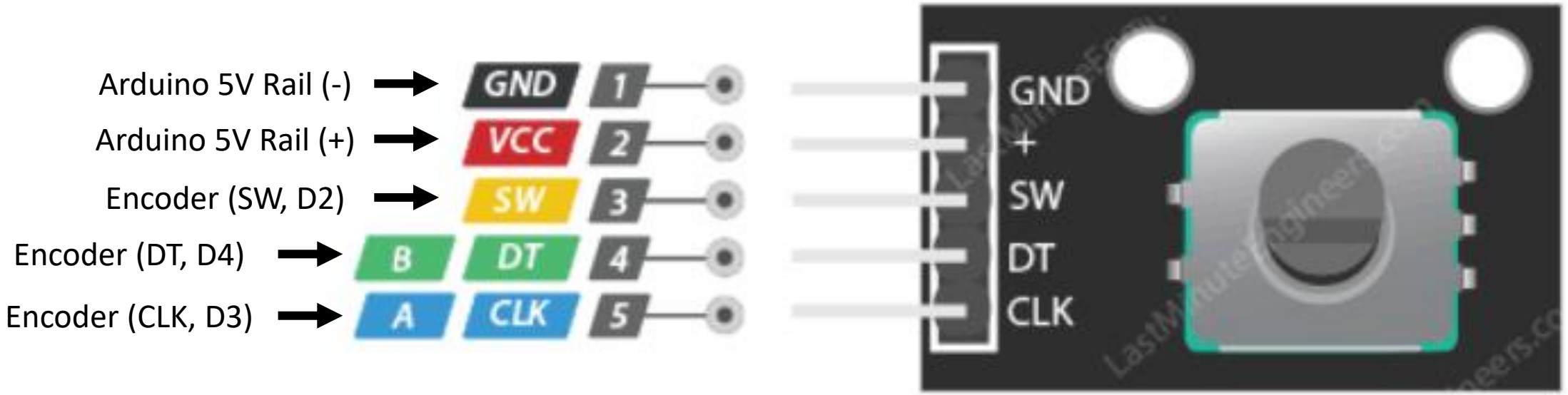
SWITCH: PUMP 4 (ELECTRONICS AND CODE) connected to pin D17
SWITCH: PUMP 3 (ELECTRONICS AND CODE) connected to pin D16
SWITCH: PUMP 1 (ELECTRONICS AND CODE) connected to pin D14




Temperature Probe (D8)
Arduino 5V Rail (+)
Arduino 5V Rail (-)
DS18
B20
ARDUINO.CC
ARDUINO
NANO
V3.0


Cartridge Heater
(No Polarity)
FET P
PWM Output (D10)
ARDUINO GND
(12V Rail, “-” Side)
Terminals (“+”)
Terminals (“-”)

EN
1
M0
2
M1
3
M2
4
Arduino 5V Rail (+)
RST
5
Arduino 5V Rail (+)
SLP
6
Stepper (STEP, D6)
STEP
7
Stepper (DIR, D5)
DIR
8
DRV8825
16
VMOT
Terminals (+)
15
GND MOT
Terminals (-)
14
B2
Stepper (Blue)
13
B1
Stepper (Red)
12
A1
Stepper (Green)
11
A2
Stepper (Black)
10
FAULT
9
GND LOGIC
Arduino 5V Rail (-)


Arduino 5V Rail (-)
Arduino 5V Rail (+)
Encoder (SW, D2)
Encoder (DT, D4)
Encoder (CLK, D3)
GND
VCC
SW
B
DT
A
CLK
1
2
3
4
5
GND
+
SW
DT
CLK