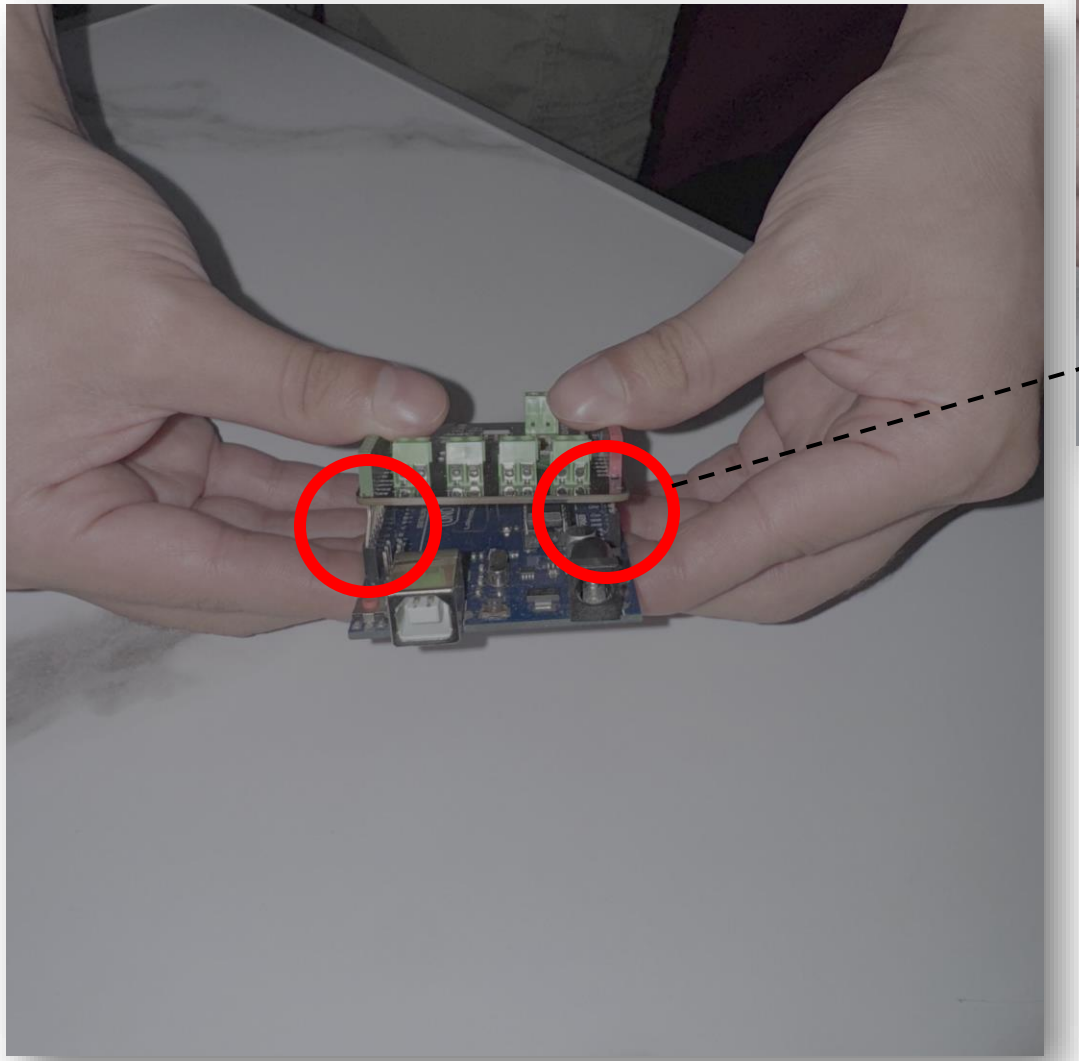
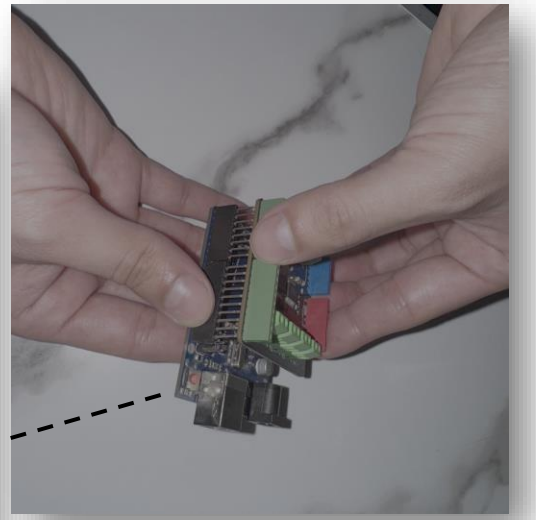
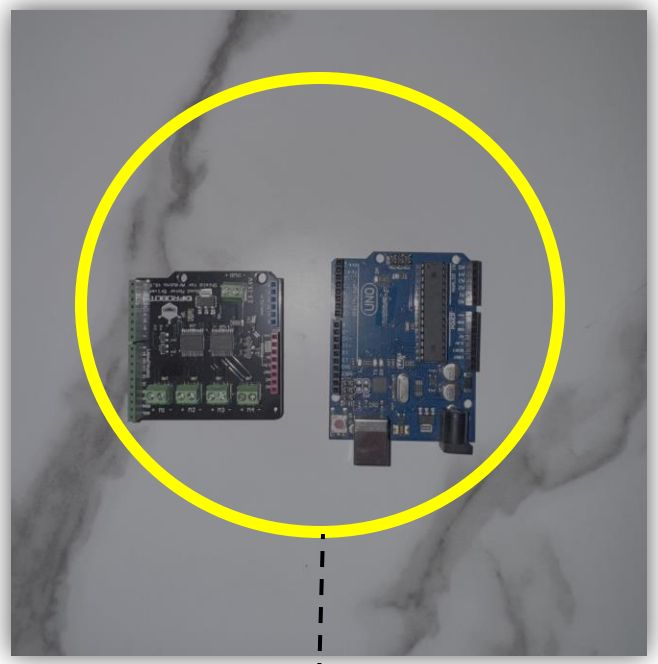
Assembly

FART HOLE COMMI$IONING

Install Shield to Arduino





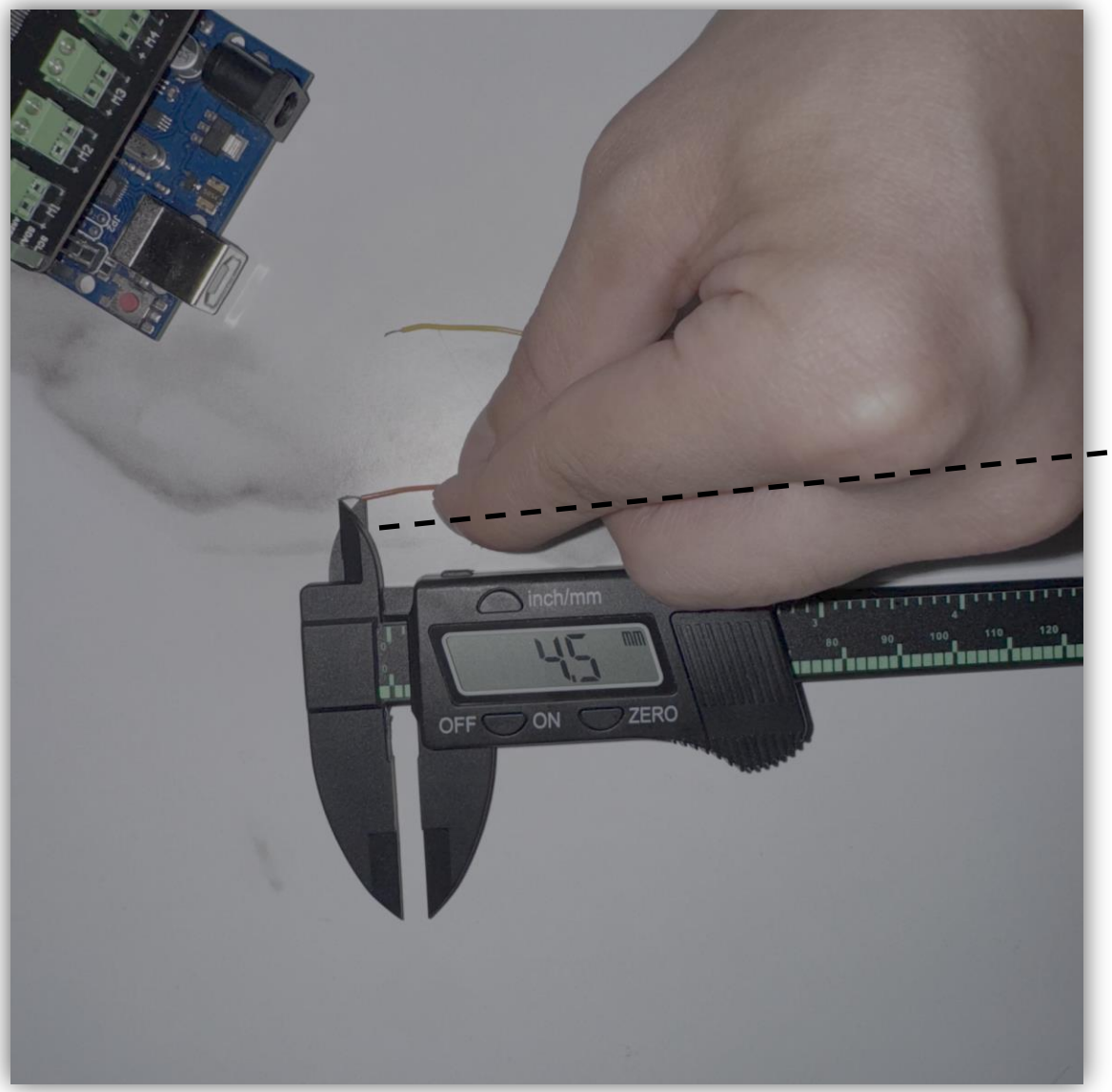


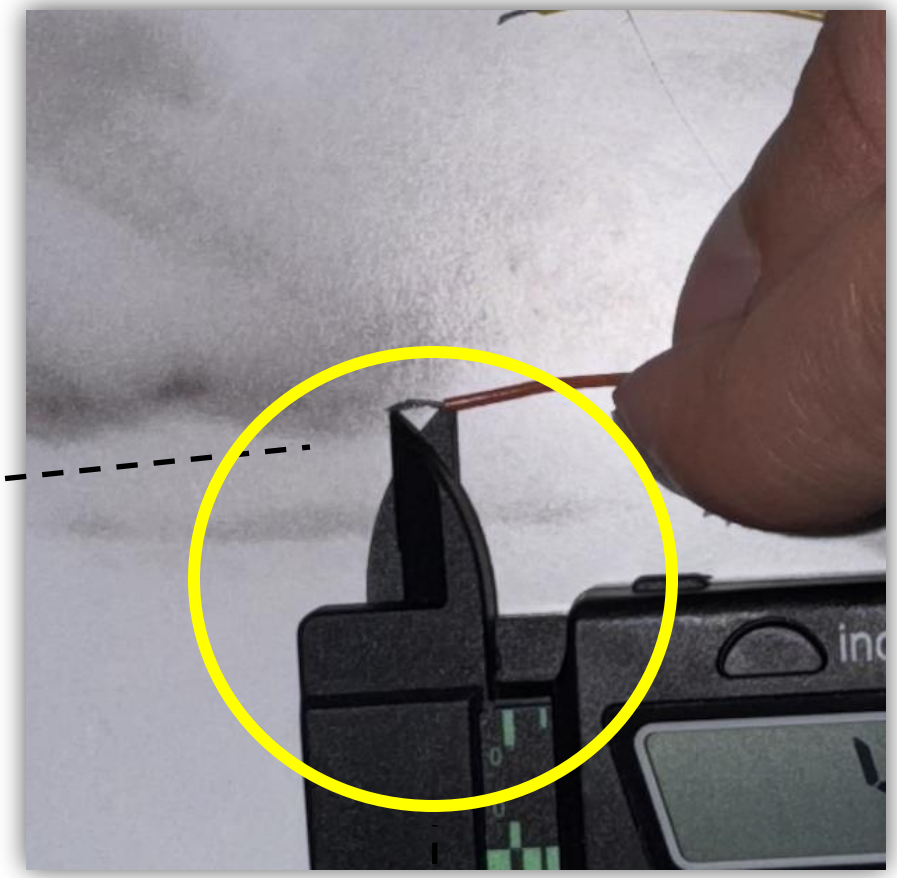
Peep the orientation for The stack

Insert the pins gracefully, be careful to not bend the pins.

FART HOLE COMMI$IONING

Strip Solenoid wires 4.5 mm



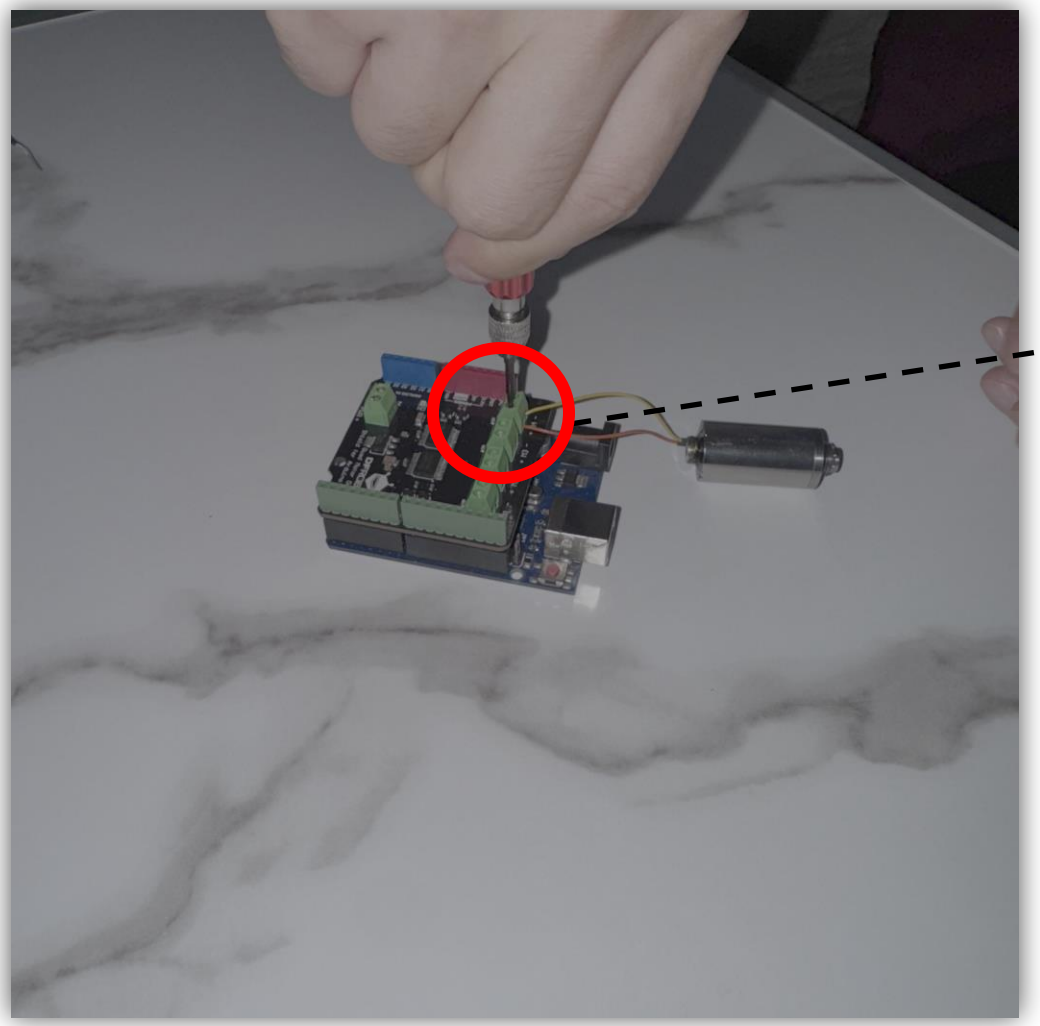


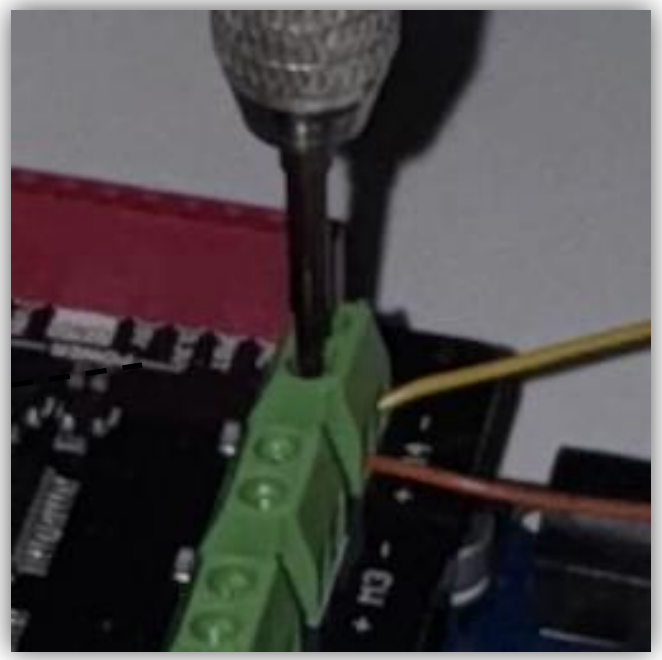
Strip 4.5 mm

These instructions are for official fart hole use only

FART HOLE COMMI$IONING

Fasten solenoid to M4





Fasten the orange wire to M4 +
Fasten the yellow wire to M4 -

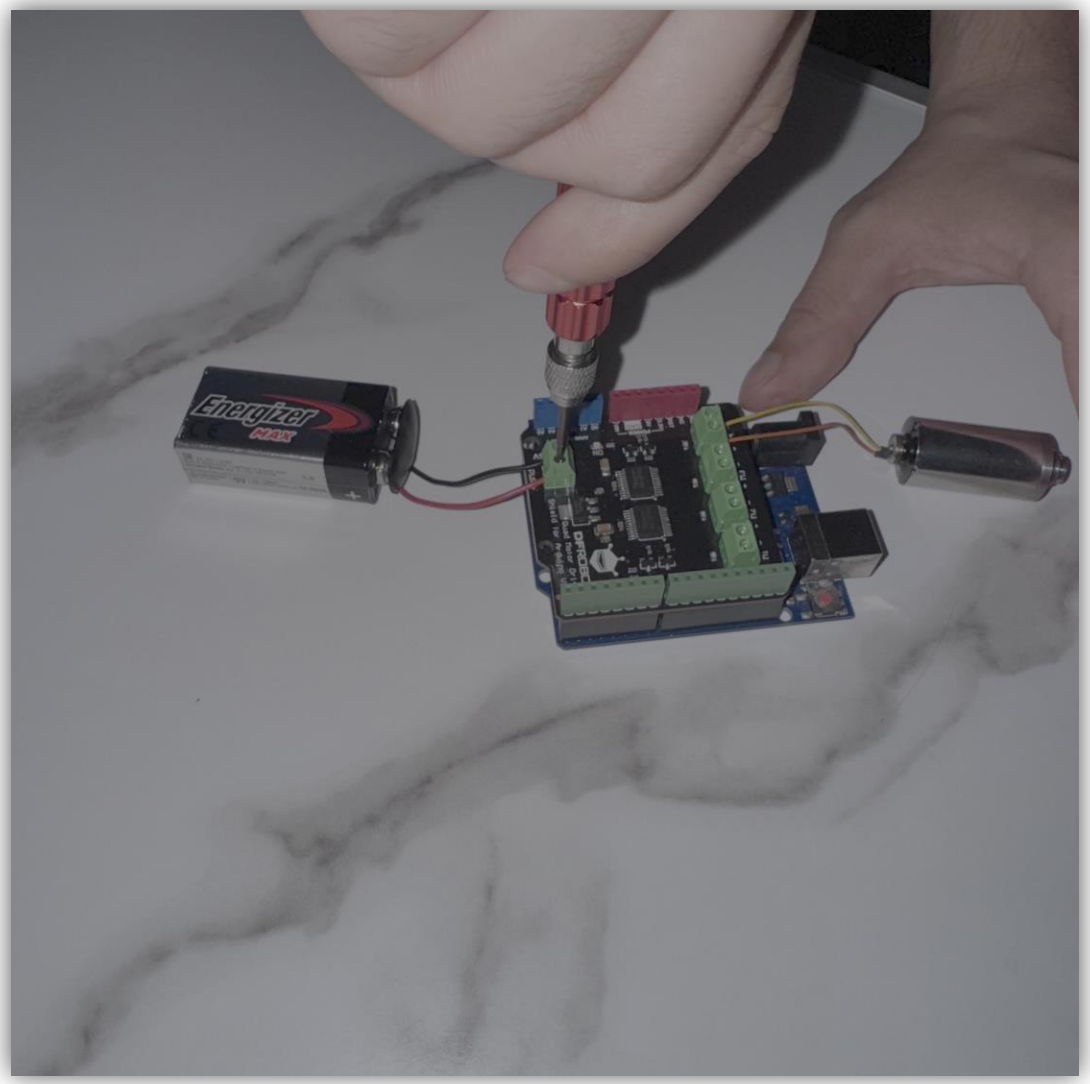
FART HOLE COMMI$IONING

Strip 9v wires 4.5mm

Strip 4.5 mm

FART HOLE COMMI$IONING

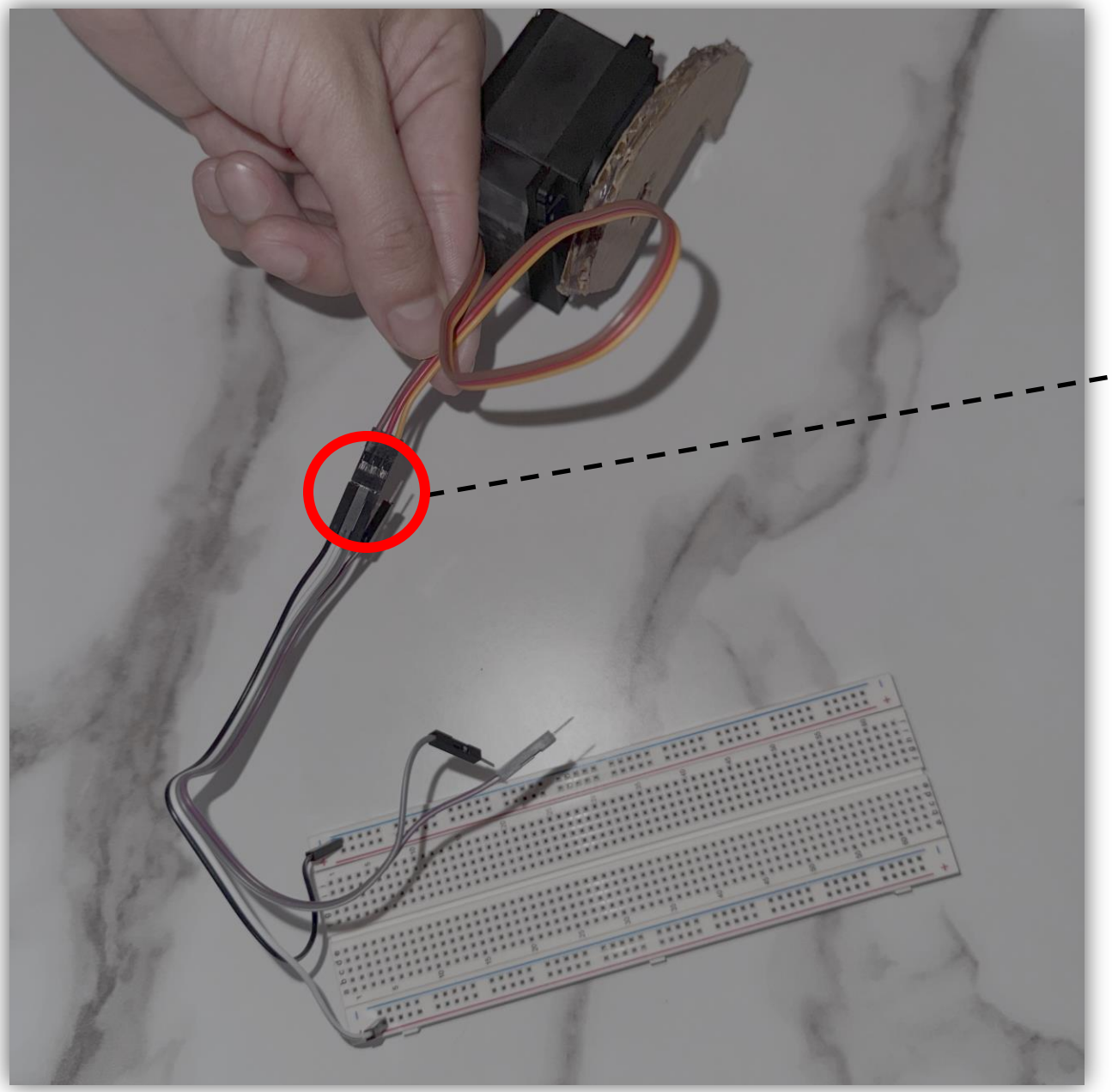
Fasten 9v Battery



Fasten the black wire to -
Fasten the red wire to +

FART HOLE COMMI$IONING

Connect Power servo to jumpers

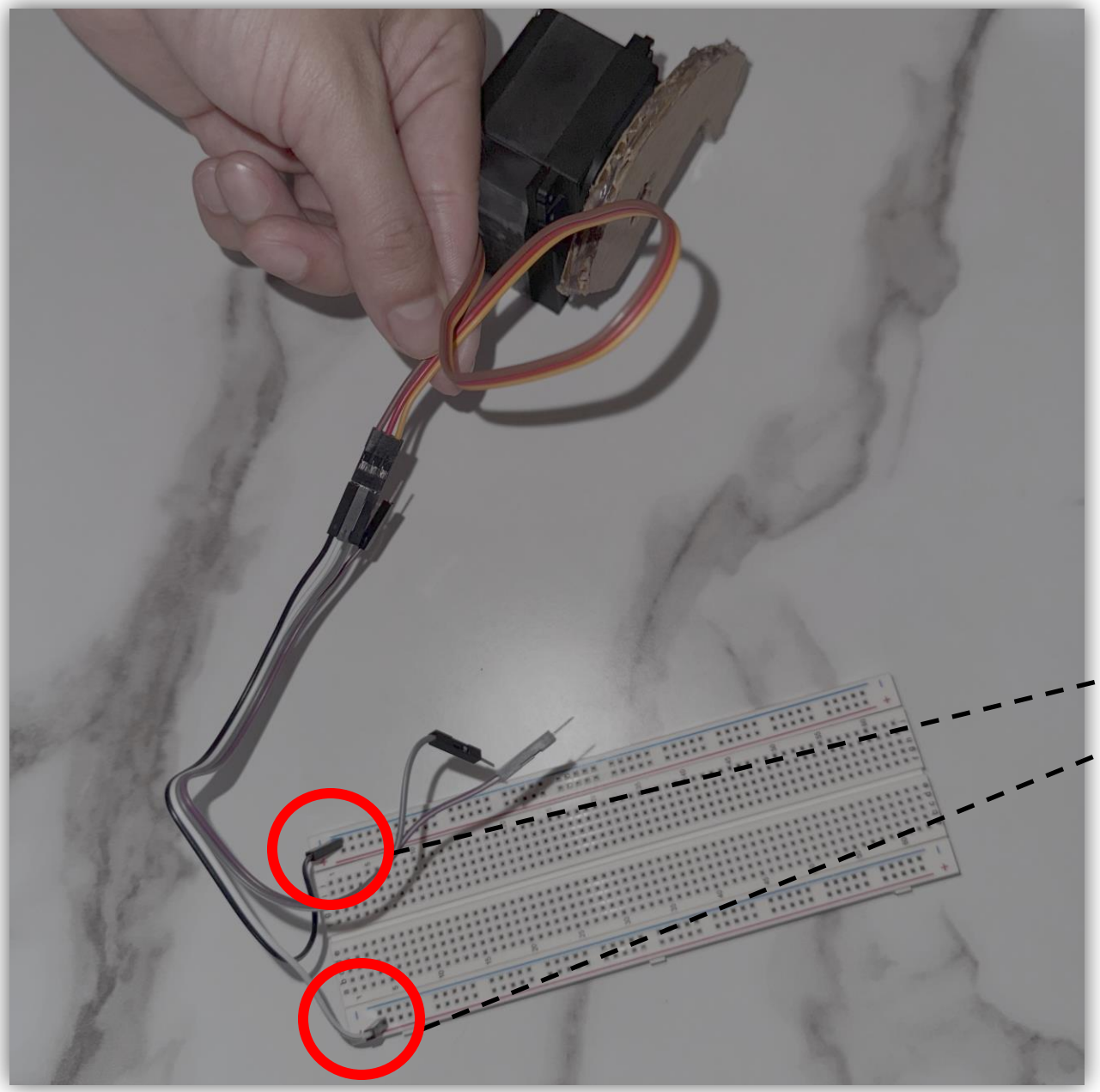


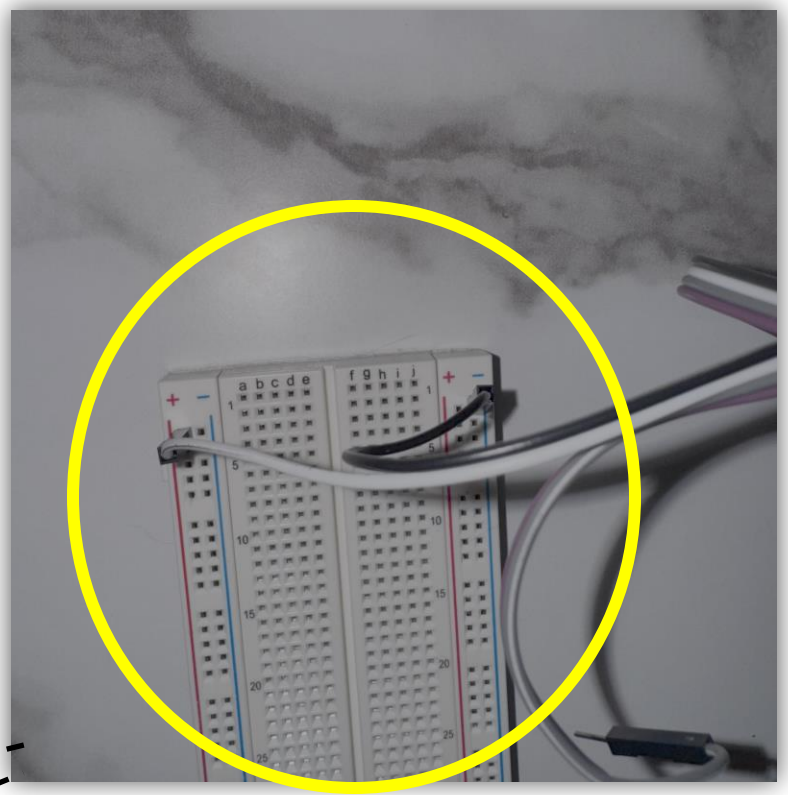
Pinout:
Brown > Black
Red > white
Orange > Grey

Leave purple wire hanging

FART HOLE COMMI$IONING

Connect Power servo jumper to breadboard

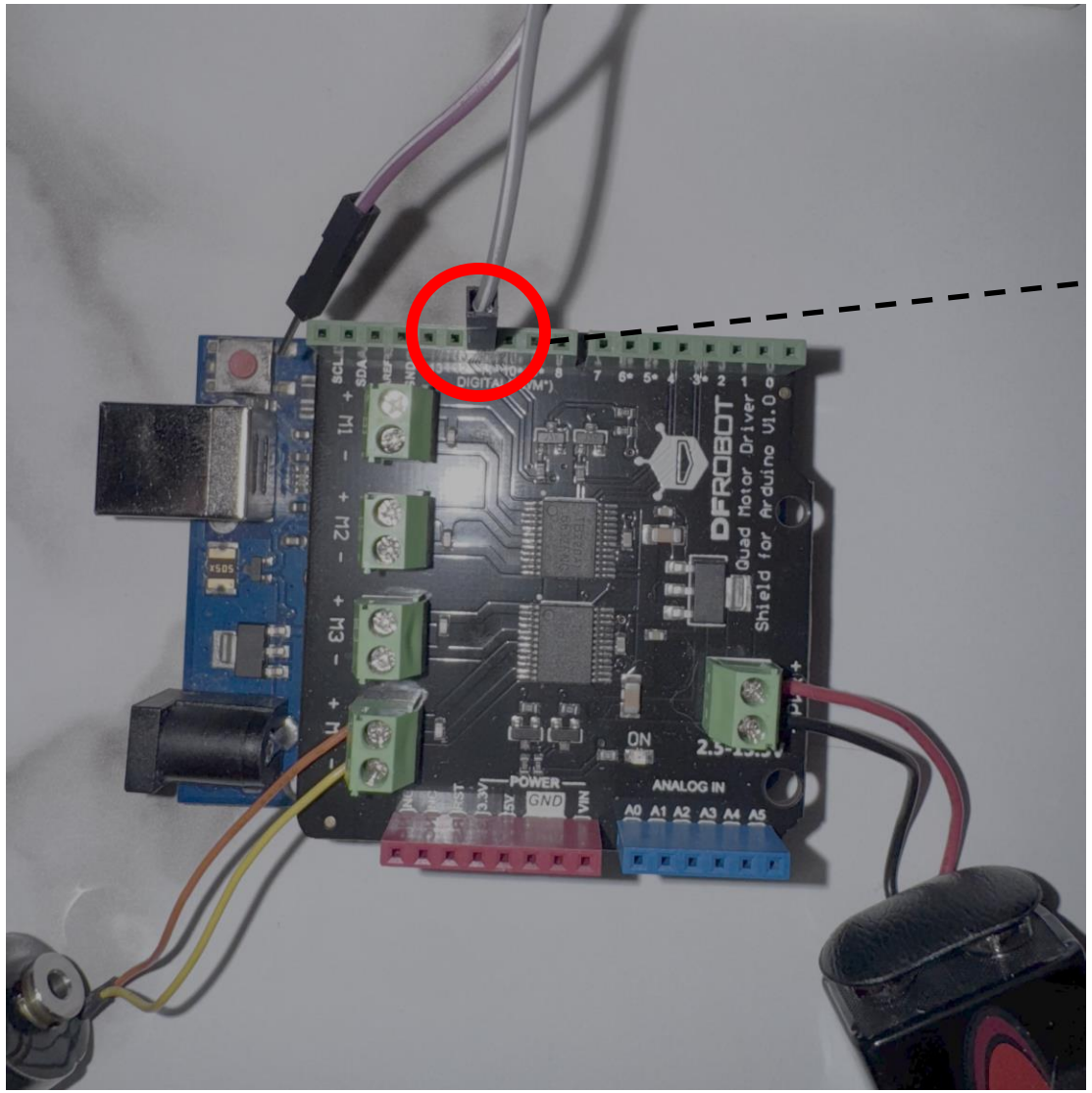


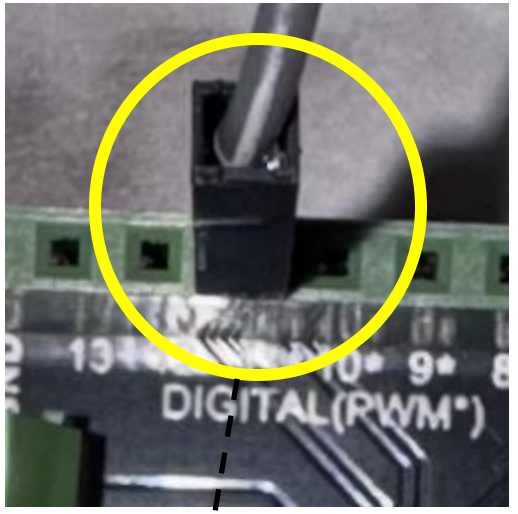


Pinout:
White > Positive
Black > Negative

FART HOLE COMMI$IONING

Connect Orange servo wire to digital output 11

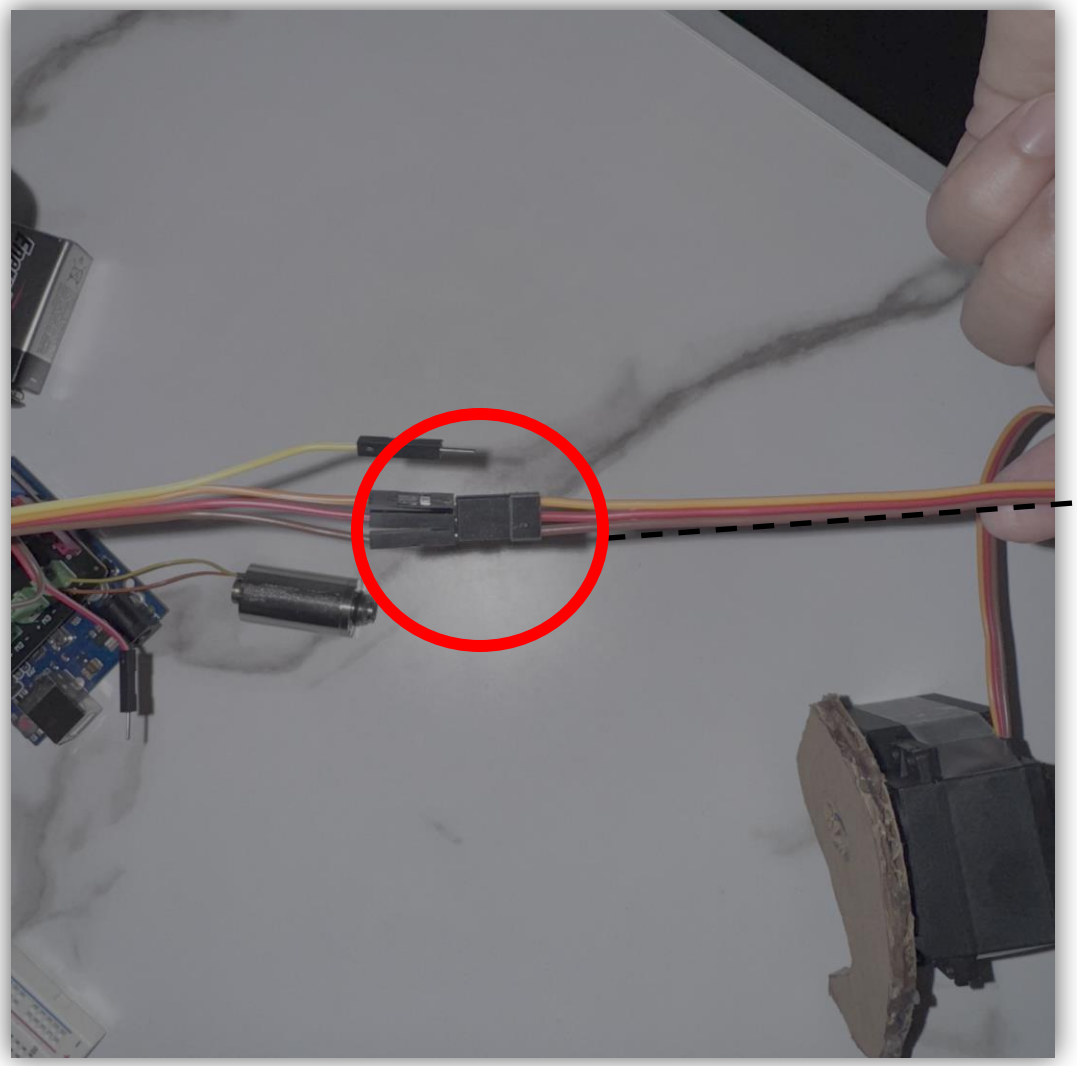


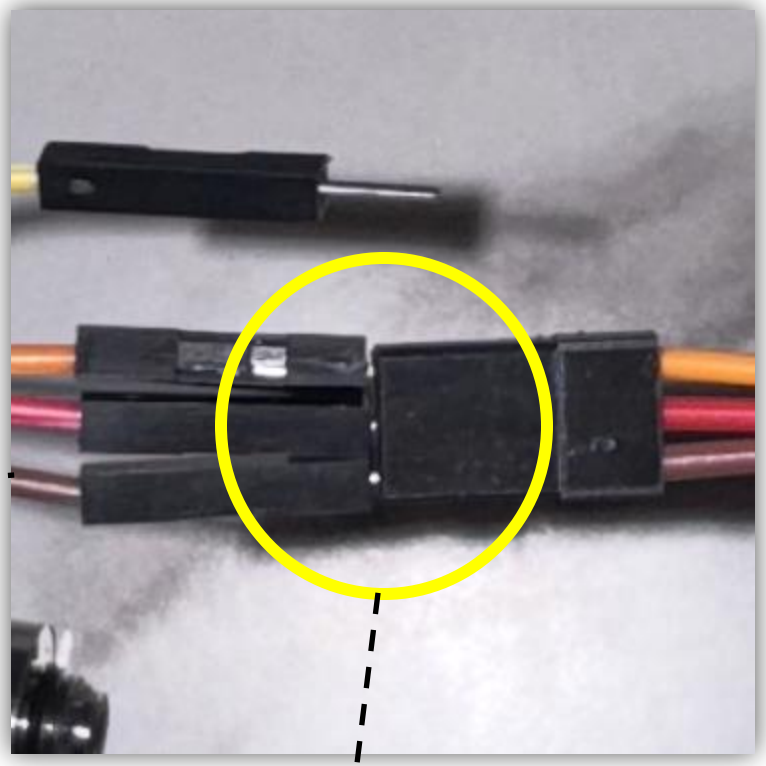


Verify:
Connected to output 11

FART HOLE COMMI$IONING

Connect Vibe servo to jumpers

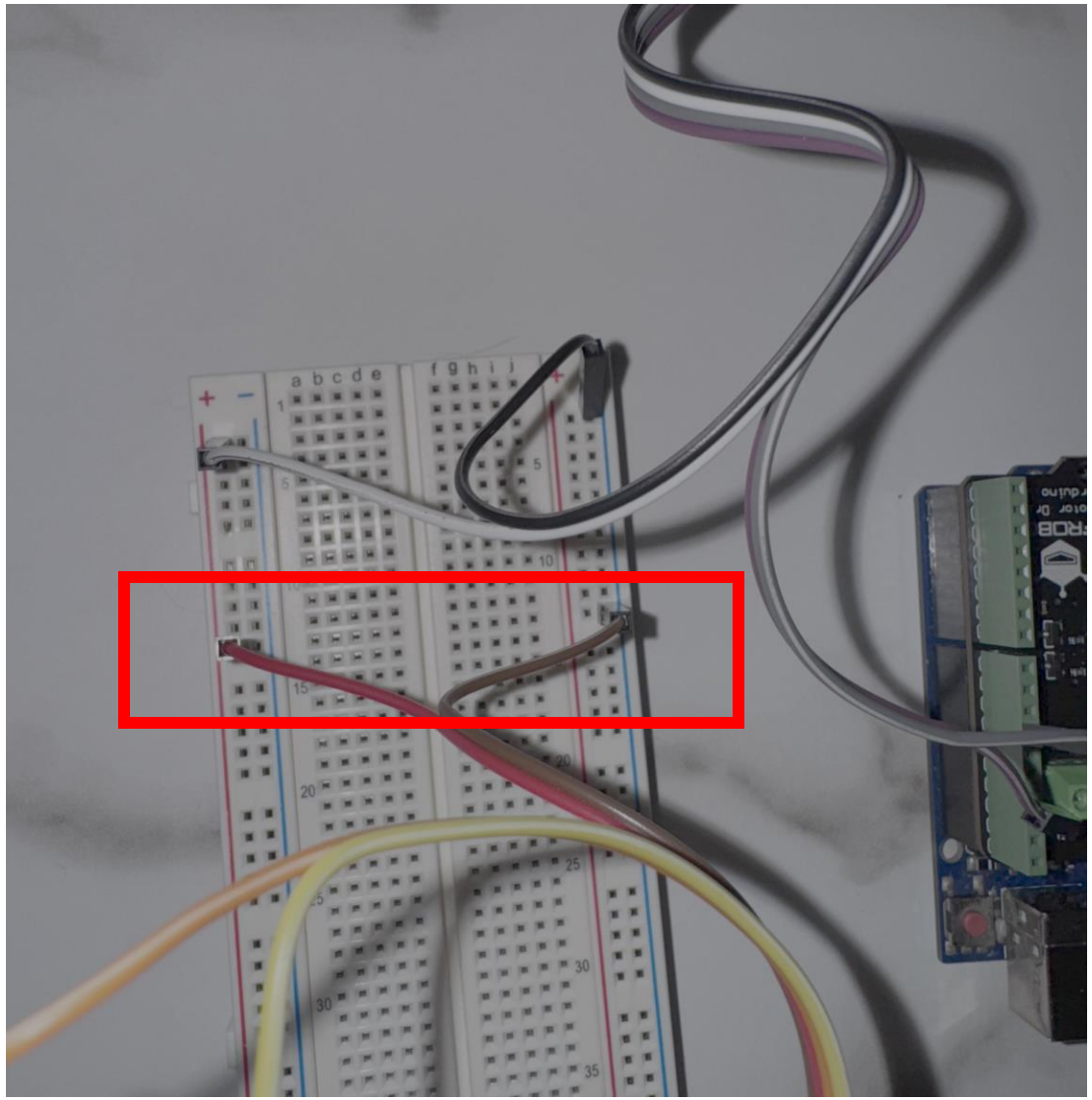




Connect:
Orange > Orange
Red > Red
Brown > Brown

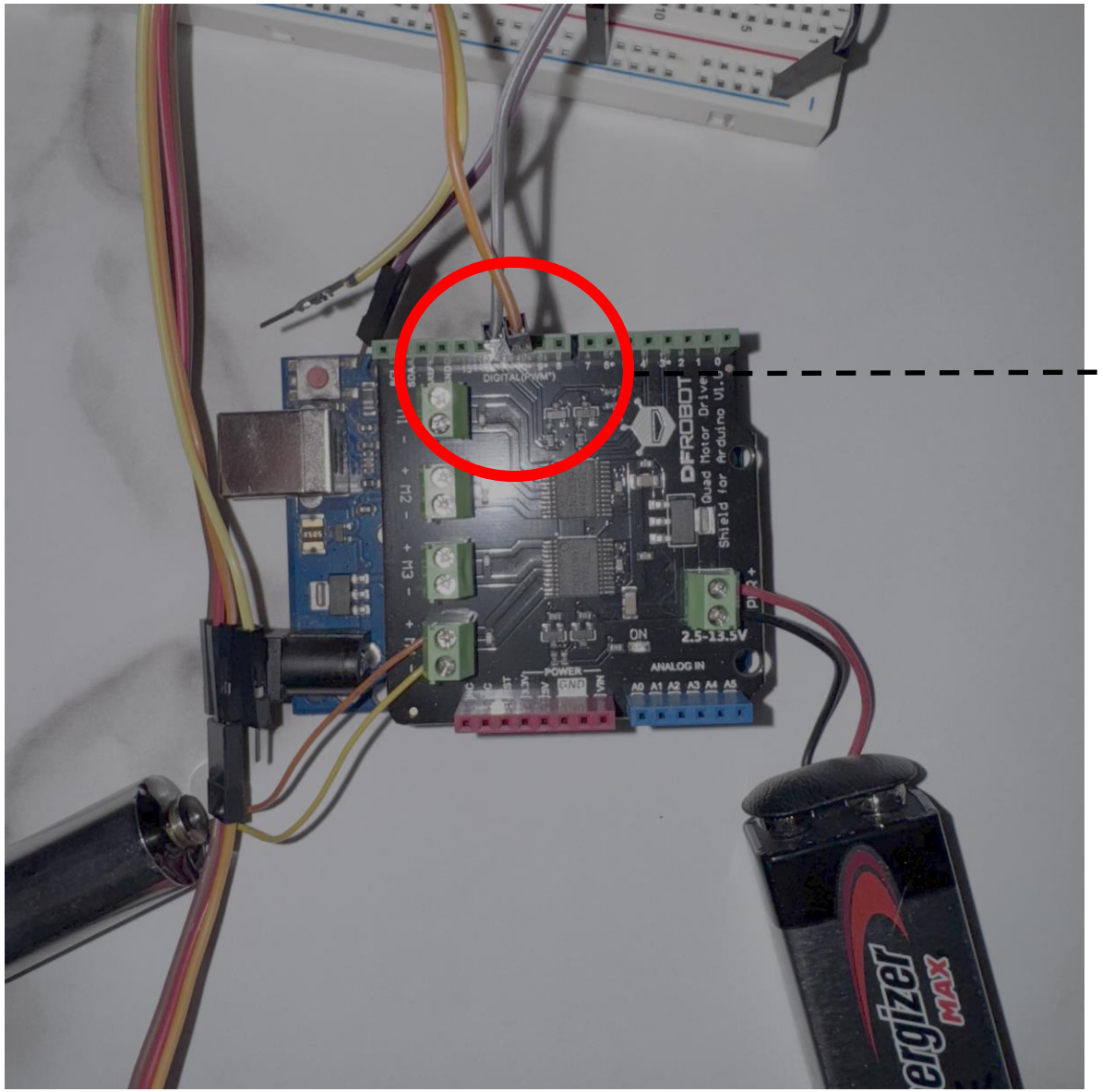
FART HOLE COMMI$IONING

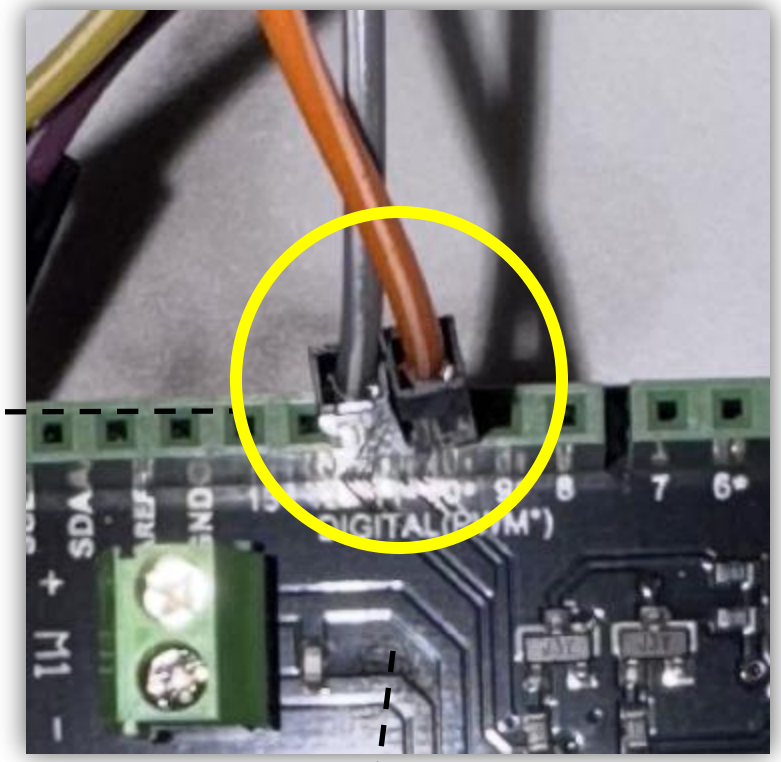
Connect Vibe jumpers to bread board



FART HOLE COMMI$IONING

Connect Vibe servo to pin 10 digital out put

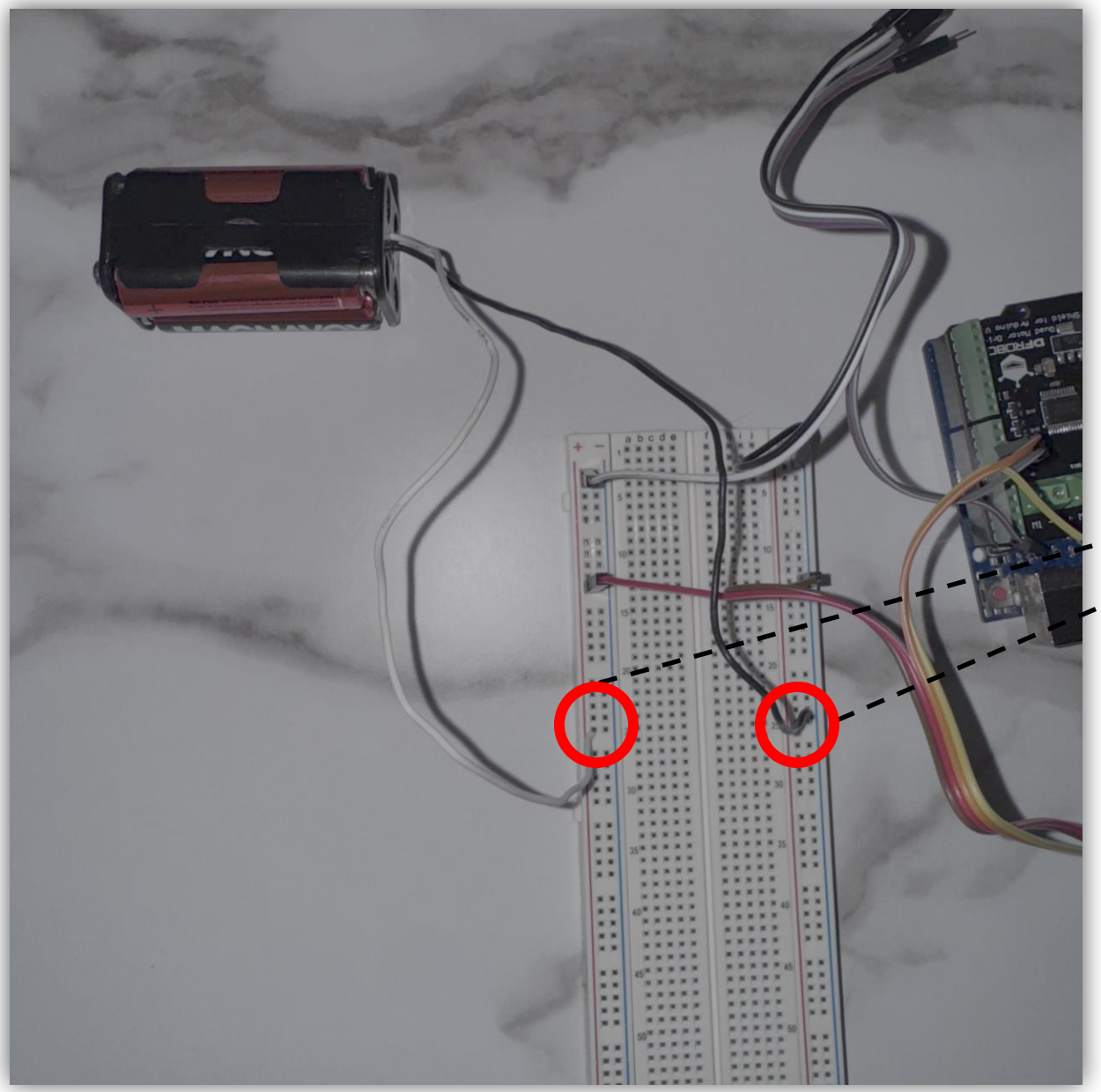


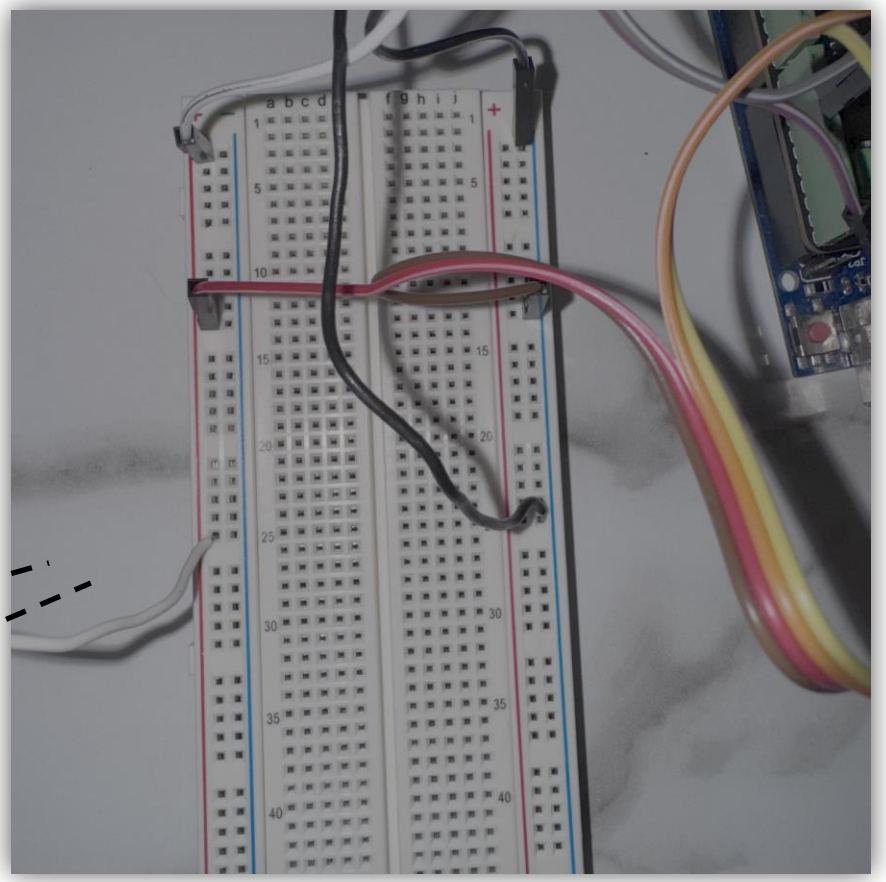


Connect:
Orange > pin 10

FART HOLE COMMI$IONING

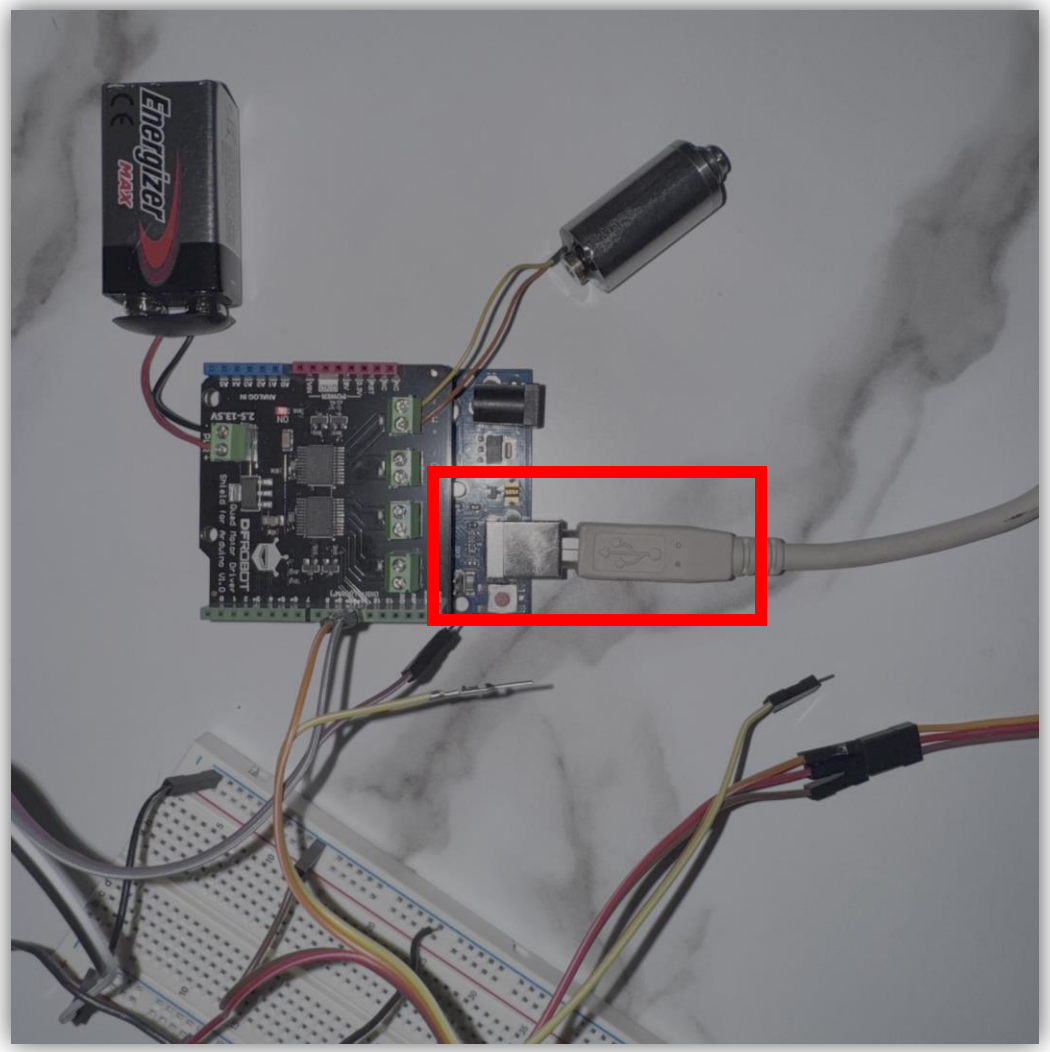
Connect Servo battery pack to breadboard





Insert the pins gracefully, be careful to not bend the pins.

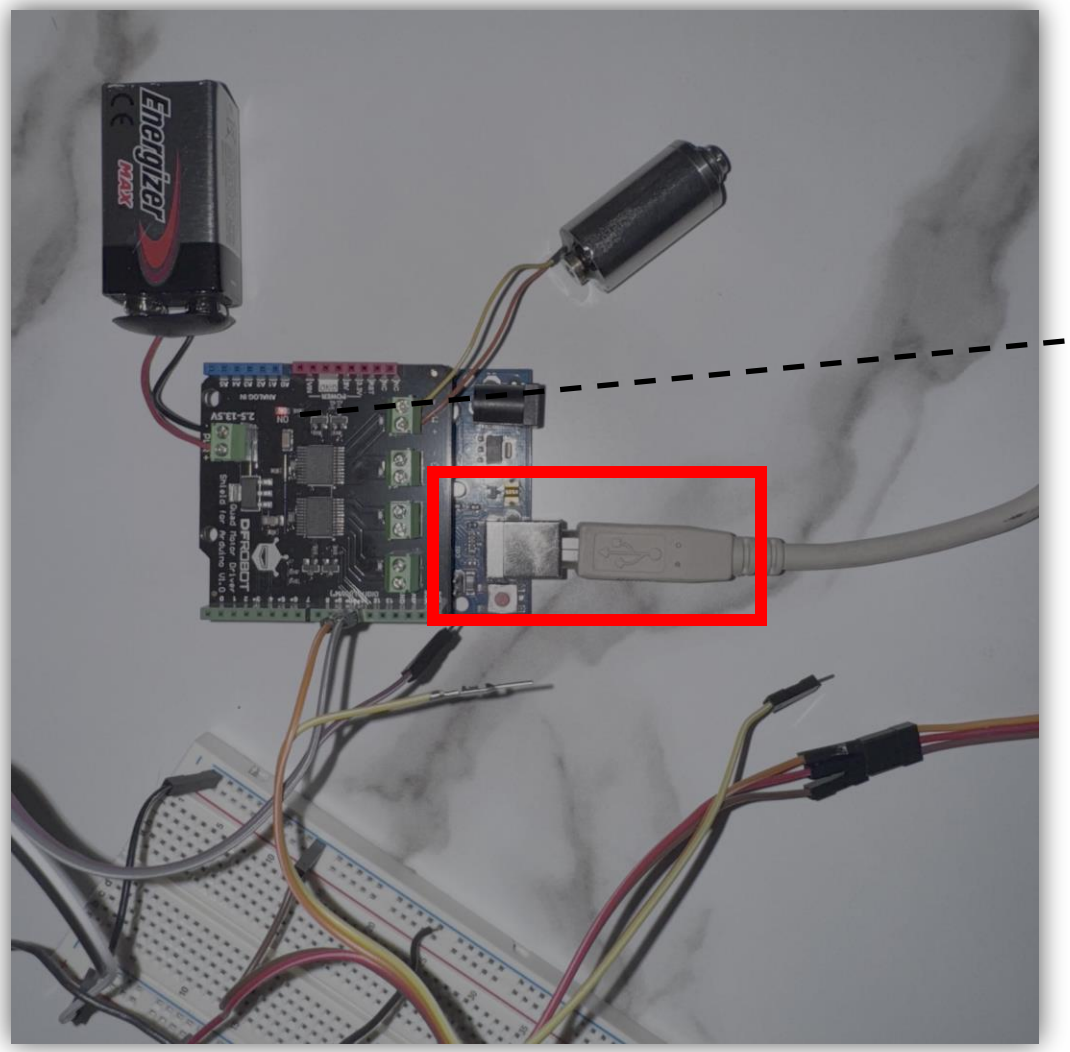
Connect power supply to Arduino

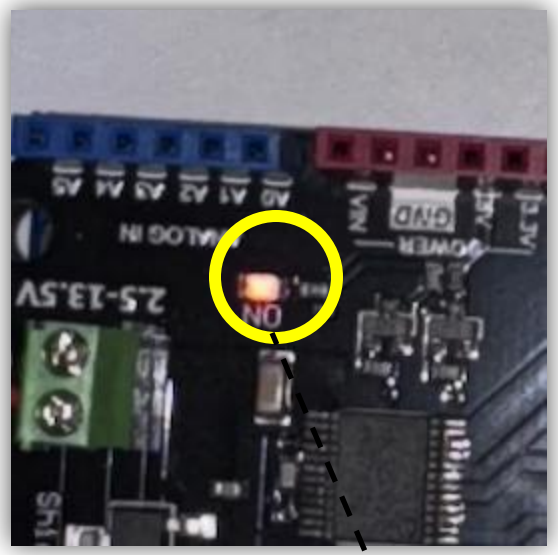


Verify no debris is in the power supply, then gracfully plug into the arduino

FART HOLE COMMI$IONING

Verify Power





Verify:
Power indicator
energized on

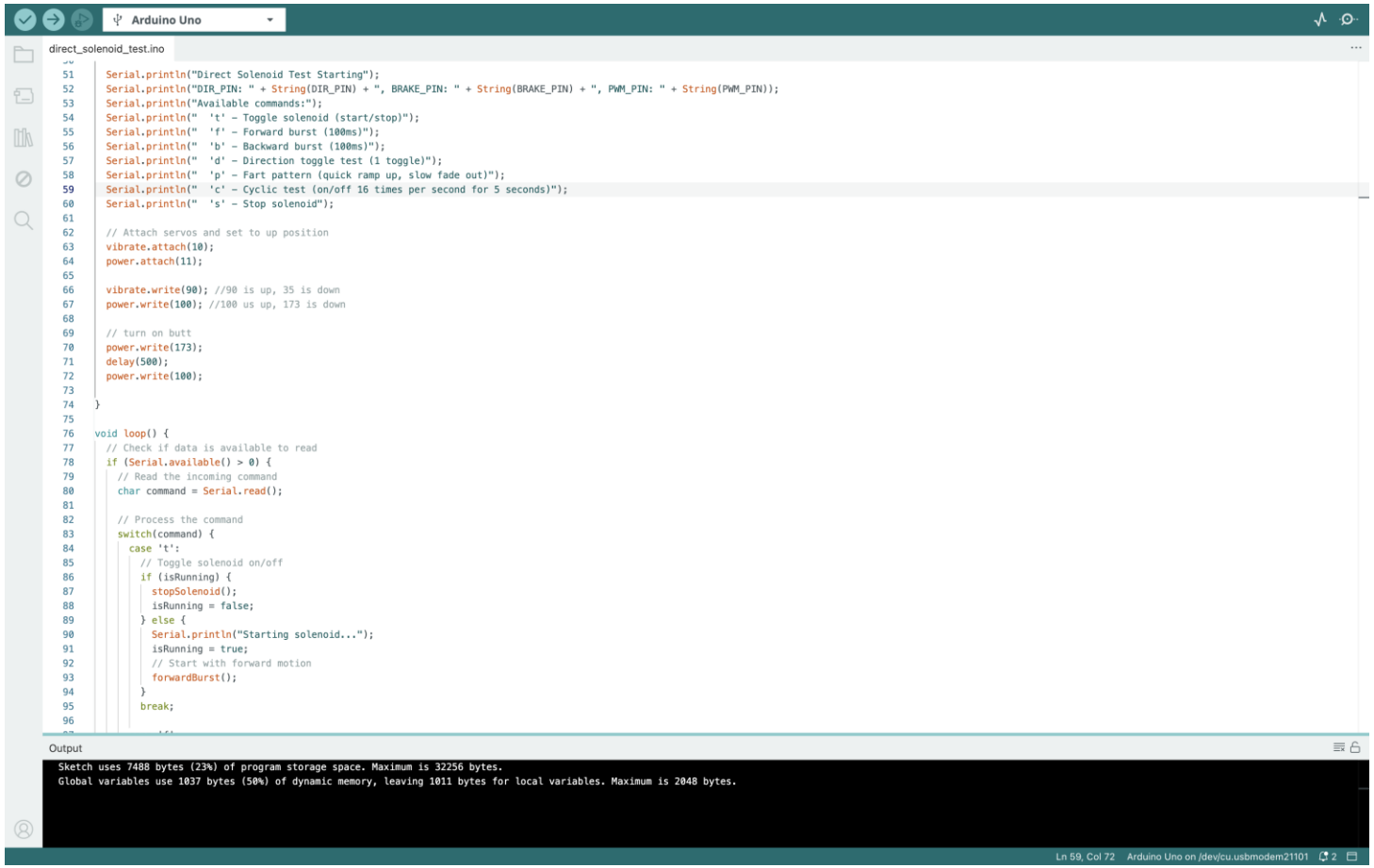
Functions Test

- Servo Quality Check
- Solenoid Quality Check

Solenoid

FART HOLE COMMI$IONING

Title 1

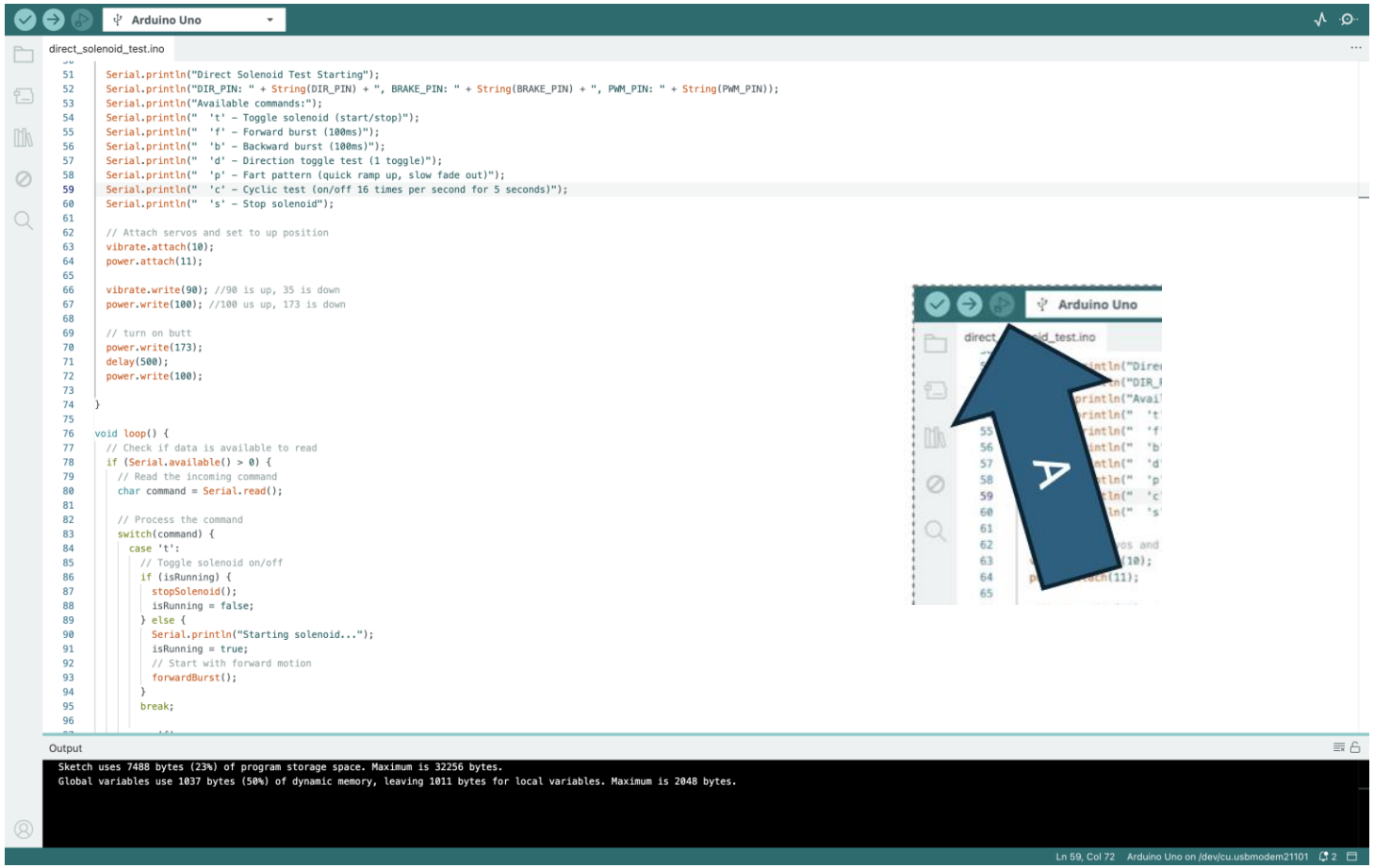


Steps	Icon
Open Arudiono IDE	
Click 'File' > Open > direct_solenoid_test.ino	
Upload .ino file to arduino	
Open serial monitor; 'Tools' > Serial Monitor	b
On serial monitor send the command C	c

Goal: Is to click check and enregize on/off the solenoid 80 times to verify healthy solenoid.

FART HOLE COMMI$IONING

Title 1



Steps	Icon
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Click 'File' > Open > direct_solenoid_test.ino	
Upload .ino file to arduino	
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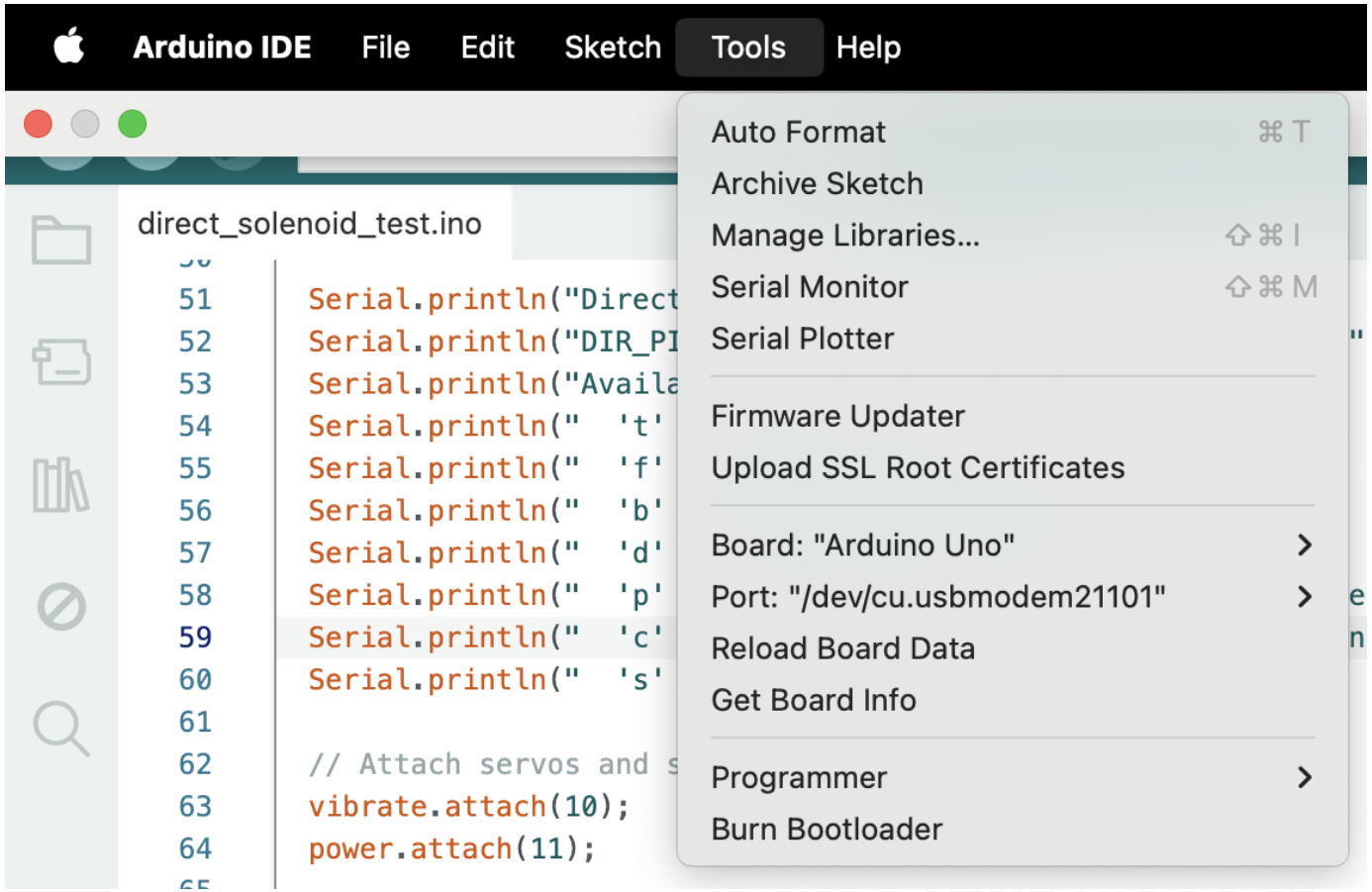
FART HOLE COMMI$IONING

Title 1



Steps	Icon
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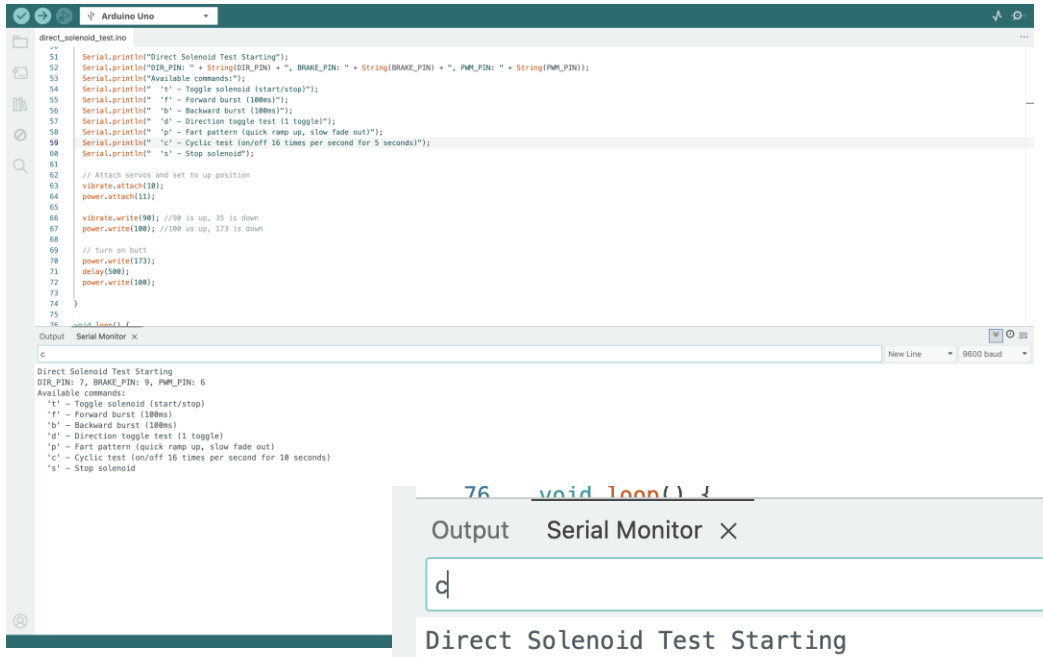
Click 'File' > Open > direct_solenoid_test.ino	
Upload .ino file to arduino	
Open serial monitor; 'Tools' > Serial Monitor	b
On serial monitor send the command C	c

FART HOLE COMMI$IONING

Title 1




```
76   void loop() {
```

Output Serial Monitor ×

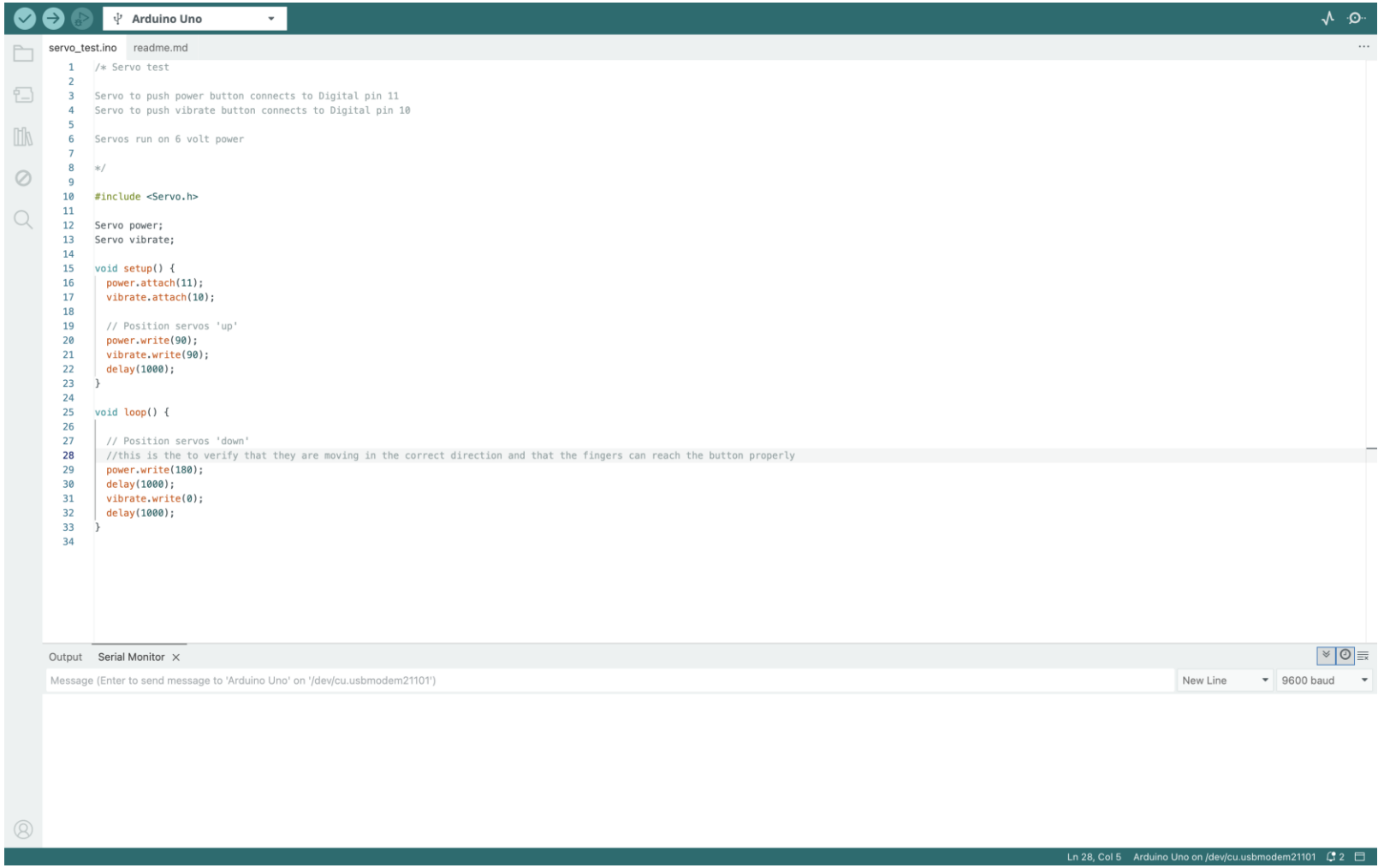
```
c
Direct Solenoid Test Starting
DIR_PIN: 7, BRAKE_PIN: 9, PWM_PIN: 6
Available commands:
  't' - Toggle solenoid (start/stop)
  'f' - Forward burst (100ms)
  'b' - Backward burst (100ms)
  'd' - Direction toggle test (1 toggle)
  'p' - Fart pattern (quick ramp up, slow fade out)
  'c' - Cyclic test (on/off 16 times per second for 10 seconds)
  's' - Stop solenoid
```

Steps	Icon
Open Arudiono IDE	
Click 'File' > Open > direct_solenoid_test.ino	
Upload .ino file to arduino	
Open serial monitor; 'Tools' > Serial Monitor	b
On serial monitor send the command C	c

Servos

FART HOLE COMMI$IONING

Title 1



Steps	Actions
Open Arudiono IDE	
Click 'File' > Open > servo_test.ino	Will load script to IDE
Upload .ino file to arduino	Just by uploading this will actuate the servos

Goal: Is to check to see if servos have full range of motion should: Cycle begin at position 1 and move to position 2 (90 degree spread from both positions)

You will need to clock the fingers coherantly

These instructions are for official fart hole use only

FART HOLE COMMI$IONING

Title 1

FART HOLE COMMI$IONING

Title 1