

Arduino Kits

1 December 2018

Overview of Arduino Kit

QTY	Description
1	Arduino Nano
2	Solderless breadboard
1	Jumper wires
1	Power regulator board
1	9V battery holder
1	USB cable
1	DC motor (brush)
1	Fan attachment
1	Light module
1	Ultrasonic sensor
2	Stepper motor (288YJ-48)
2	ULN2003 motor driver
4	LEDs
4	Tactile push buttons
4	Resistors (330 ohm)

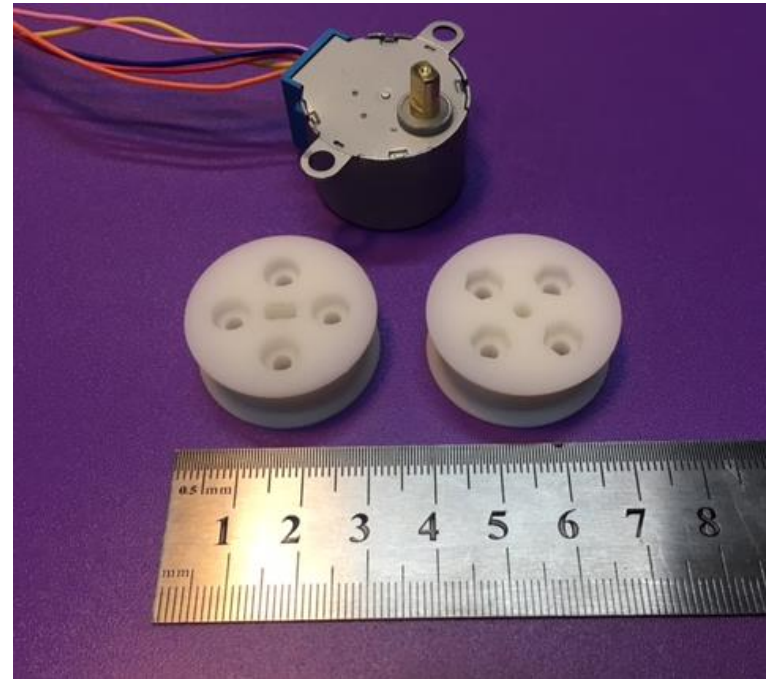


Sensor Kit



Stepper motor attachment

- Currently having tooling made for this attachment to stepper motors -- make it easier for kids to make things



Next Steps

- Arduino Kit
 - Need to create sketches and course notes for:
 - External LED and switch
 - Brush motor
 - Stepper motor
 - Light module
 - Ultrasonic sensor
- Sensor Kit
 - Sensor kit documentation is incomplete – does come from manufacturer with some code
 - Need to clean up code and test on breadboard and Arduino Nano
- End Goal – want to make it easy for kids to upload pre-written and tested sketches to get all the sensors to work. Then they can mix and match sensors and motors to make something cool and useful