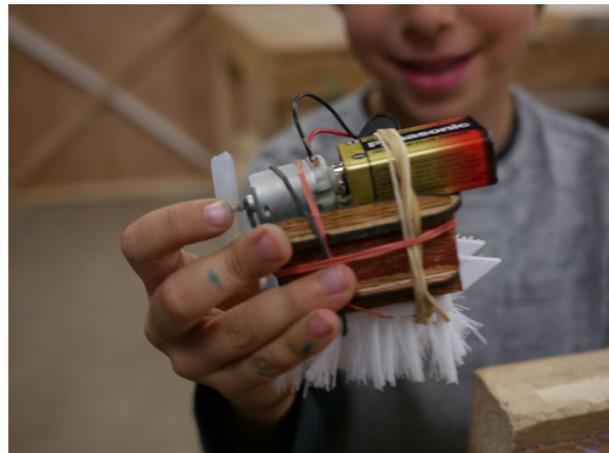


The Maker Bean Art Bot Assembly Guide

For Makers 6-12 years with help from an adult

Calling engineers of all ages - we need you! Build a robot complete with spinning motor that will travel around your home and create art as it spins!



Estimated Time:

1 hour for assembly

Hours of play time!

Materials

Each Art Bot kit contains:

- 1 DC Motor
- 1 9V battery
- 9v Battery Connector with red and black wires



- 1/4 Hot Glue stick
- 1 Laser Cut Wooden Frame
- 1 brush with bristles
- 1 marker
- Craft supplies for decoration

Activity Guide

Assembly (1 hour)

Discussion & planning

- How does a battery work?
- How does a motor work?
- How would we connect the motor to the battery?

- Using the laser cut pieces, assemble Art Bot body as a group.

How to assemble:

LASER CUT BODY

Using the slots, assemble Laser Cut body as shown



MOTOR, GLUE STICK and BATTERY CONNECTOR

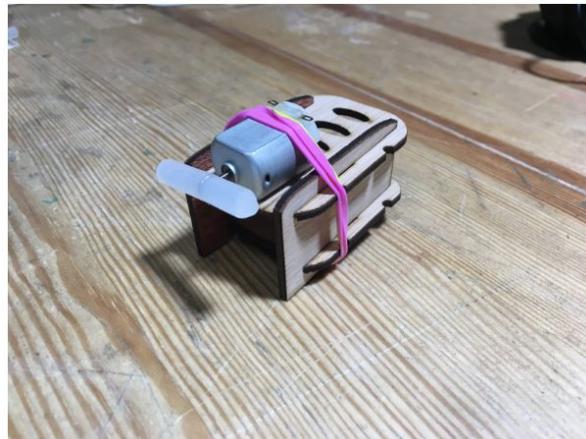
Add the ¼ glue stick to end of the motor.

Wrap the exposed silver wires at the end of the black and red wires of the battery connector around the metal “rabbit ears” of the motor. Make sure silver wires themselves are in contact with rabbit ears, and if needed secure battery connector wires to rabbit ears with a small amount of glue (glue not included)



ATTACHING MOTOR TO BODY

Use elastic bands to secure motor to top of Art Bot body (battery connector not shown)



WIRING

Place 9V battery inside the lasercut body. Attach the battery connector to the 9V battery to turn Artbot on and off; you'll hear, feel and see the motor turn on when the battery connector is connected to the 9V battery.

If the motor does not turn on, make sure the exposed silver wires from the black and red connectors are actually touching the metal “rabbit ears” on the motor.



ATTACH BRUSH

Put brush under Art Bot body and secure all parts together with elastic band. 9V battery can fit inside Art Bot body or on top of Art Bot body.

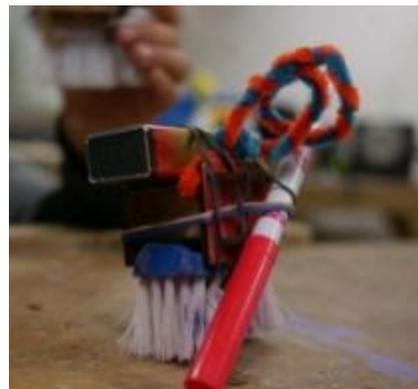
Make sure as many bristles of the brush are free as possible; this will help the Art Bot move around better.



DECORATE AND ADD MARKER

Use craft supplies to give your Art Bot some character!

Attach marker to side of Art Bot so that tip of marker just touches surface. When turned on and moving, marker will trace beautiful patterns on the surface (be sure Art Bot is on a surface you'd like to mark up, like paper or cardboard!)



Have fun with your Art Bot!

About [The Maker Bean Cafe](#)

[1052 Bloor Street West](#) and [The Ontario Science Centre](#)

Instagram & Facebook (please feel free to tag us in any photos!): [@themakerbean](#)

The Maker Bean Cafe is a space where guests can enjoy great drinks and food in a warm, welcoming environment, while letting their imaginations soar by designing and making things together!

Cafes and creativity have been linked for centuries, and The Maker Bean is here to bring that connection into the digital age. We focus on making in all its forms: from traditional arts & crafts to [high-tech digital fabrication like 3D printing and laser cutting](#), to [adult workshops](#) and [kids camps](#). We also host [private maker events & kids birthday parties!](#) Paired with [locally roasted coffee, artisanal teas and fresh-made food](#), our guests bring their creative ideas to life in a community over a great drink & some noms.

Our Bloor location is currently open on a reduced schedule: 9am - 4pm daily for take out orders. We continue to accept 3D printing and laser cutting orders and [online shop purchases](#), but our workshops and camps have been postponed for the time being. More info at www.themakerbean.com

Hope to see you at The Maker Bean soon!