MOTORIZED SUMOBOT

Motors (2)

M-F Lead Wires (4)
(Optional)
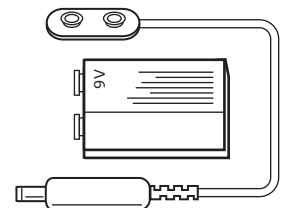
9V Battery & Clip
(Adults Only)
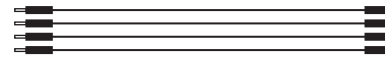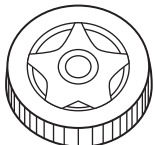
Plastic Wheels (2)

Plastic Ball
Bearing & Holder

3/8" Nuts (4)
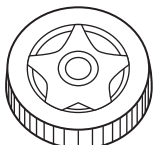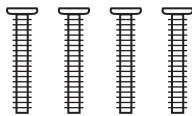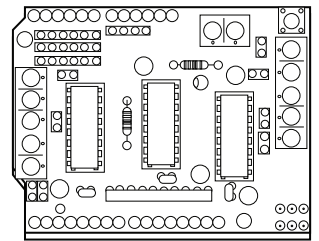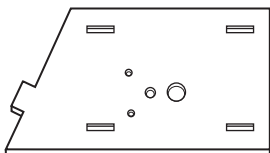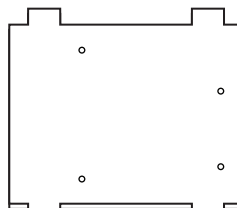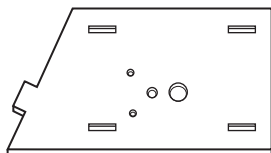
1" Bolts (4)

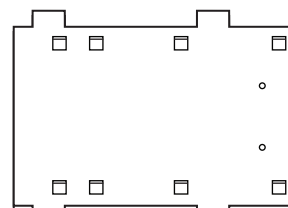3/8" Screws (6)
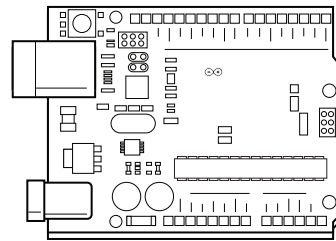
Arduino Uno (1)

Motor Shield (1)

Sumobot Chassis Side Panels (2)

Sumobot Chassis
Top Panel (1)

Sumobot Chassis
Bottom Panel (1)

Sumobot Chassis
Front Panel (1)

Please take note

The chassis is made from 3mm wood.

Be mindful when mounting or unmounting things to the chassis as the wood can splinter or break!

**Be mindful of your work surface!**

The screws tips extend beyond the wood and could damage the surface!

**Sometimes wheel mounting requires an extra bit of muscle!**

Be sure to apply pressure to the wheel or motor and not the chassis itself!

**Mounting the battery last helps prevent any accidental puncturing of the battery.**

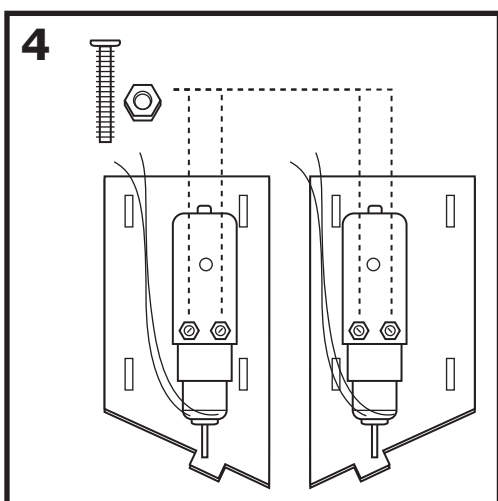Be aware of this if you remount or attach new items to your SumoBot!

1
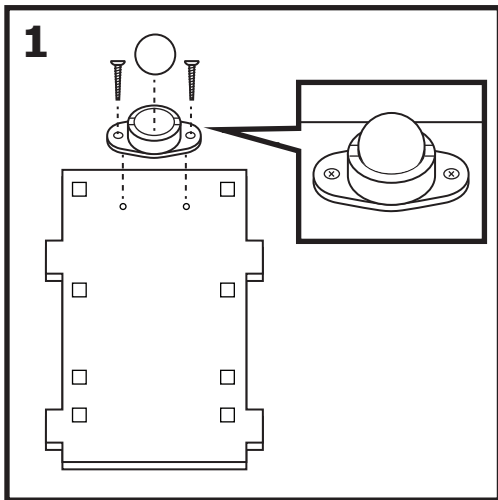
Mount the **ball bearing holder** to the **bottom plate** using two of the included 3/8" **screws**. Insert the 5/8" **ball bearing** into the ball bearing holder.
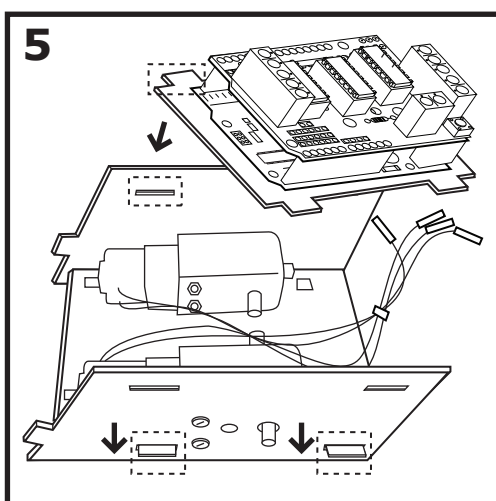
2
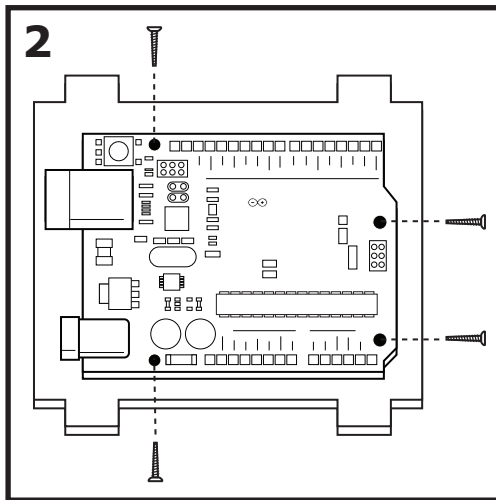
Mount the **Arduino Uno** to the **top plate** using four of the included 3/8" **screws**.
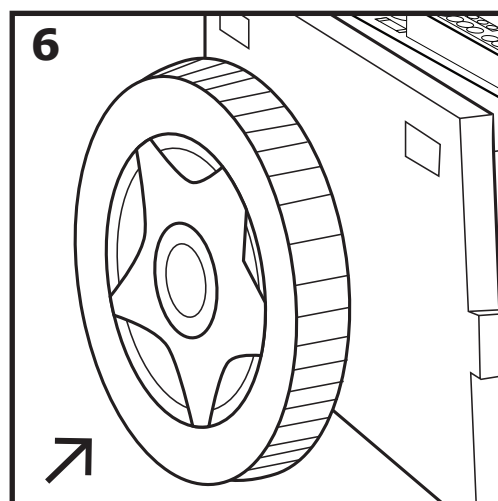
3
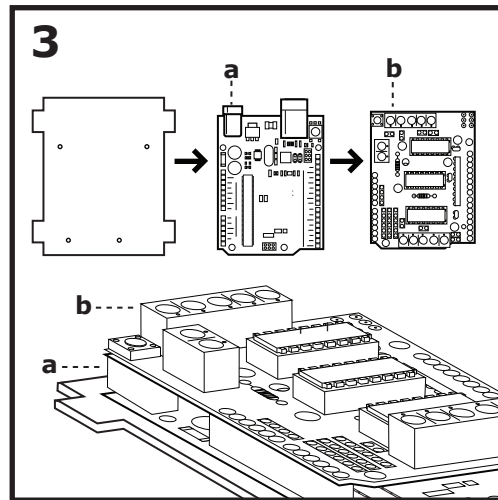
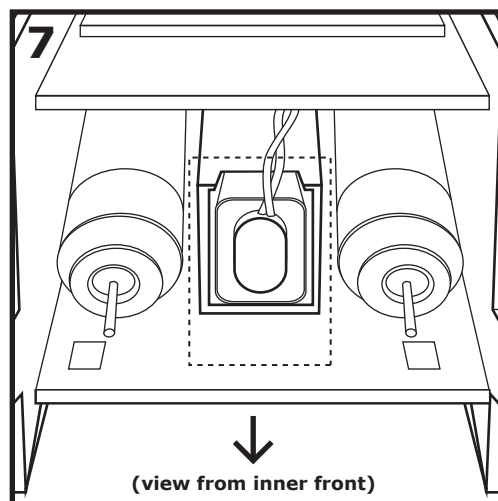Mount the **motor shield** to the **Arduino**.

4

Mount a **motor** to each **side panel** using 2 1" **bolts** and 2 3/8" **nuts**.
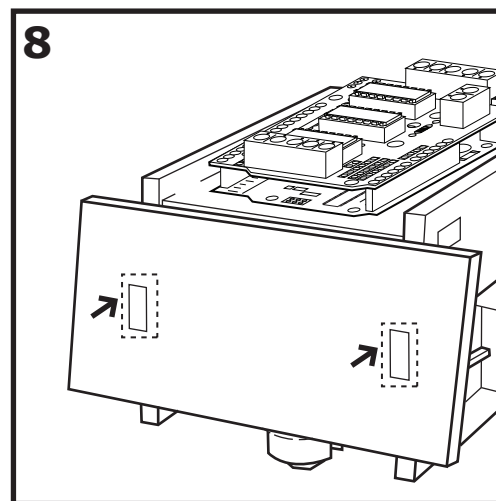
5

Assemble the chassis by inserting the tabs of the **top and bottom panel** into the slots of the **side panels**.
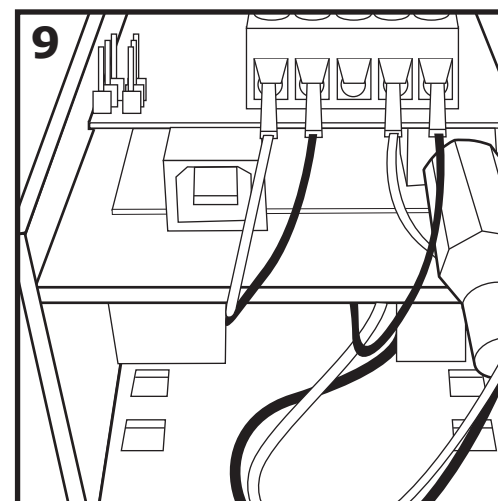
6

Carefully attach the **wheels** to each **motor**.

7

(view from inner front)

ADULTS ONLY: Insert the **battery** into the **front** of the chassis and pull the **battery lead wire** through the **cavity** of the bot.

8

Attach the **front plate** by inserting the tabs of the side plates into the slots of the front panel.

9

Wire your **motors** to the **motor shield** and power the Arduino Uno. (See wiring diagram)

Visit **github.com/norfolkjs/motorized-sumobot** for more code information.
Looking for the original sumobot-jr? Go to **sumobotkit.com**