

## 1 Getting Started

A Every MOSS robot needs a Battery Block. Flip the power switch on and the green LED will tell you that your Battery Block is charged. It'll turn red when it's getting low, but you can recharge it using the Mirco USB cable. Just plug it into your computer until the yellow charging light turns off!

B Attach a Corner Block so that its blue pass-through face is connected to a green power face on the Battery Block. The Corner Block is to connect two faces that can't be arranged to touch.

C Attach a Motor Block so that its green power face is connected to the other blue pass-through face on the Corner Block. Now the Motor Block is plugged in, but it still needs an input to tell it how to spin.

D Attach a Bluetooth Block with its green face connected to a green power face on the Battery Block. Make sure that the red data-output face of the Bluetooth Block is connected to one of the Motor's brown data-input faces.

E Woo, You just created a simple MOSS robot. You need install a MOSS control APP on your smart phone. Open it and connect to the Bluetooth Block. Control the motor by sliders.

## 2 Face Colors

Understanding the colors of MOSS faces is essential to building robots. Power and Data must flow through your construction without mixing. If they do, you won't hurt MOSS, but your robot may misbehave.

### Power

**Green faces** route power throughout a MOSS robot. Once a block is powered by connecting a green face to a Battery Block, its other green faces will power more blocks.

### Data In

**Brown faces** listen for data to tell that block what to do. Connect a red face on a sensor or Bluetooth to the brown face on a motor block and it'll drive according to the sensor or Bluetooth's output.

### Data Out

**Red faces** broadcast data. For instance, the red face on a Proximity Sensor sends out data according to how close it is to an object.

### Pass-through

**Blue faces** can conduct either Power or Data, but not both at once. You can use the blue faces on Flexy Block or Corner Block to connect two faces that can't be arranged to touch.

## 3 Available Blocks

### Battery

The Battery is a rechargeable Lipo battery that powers your robots

**Moss Brain**

The Moss brain Block uses Bluetooth wireless communication to link your robot to a mobile device or computer.

**Motor**

The Motor has a rotating end that can be used to power a rolling wheel. Experiment with the orientation of your motor block and create new types of movement.

**Wheel**

The MOSS Wheel is a support piece that can translate the rotating face of an Axle or Motor into Smooth Motion.

**Corner**

The Corner is a connective block that can link and support nearby faces.

**FCC STATEMENT**

1. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
  - (1) This device may not cause harmful interference.
  - (2) This device must accept any interference received, including interference that may cause undesired operation.
2. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

**NOTE:** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

Reorient or relocate the receiving antenna.

Increase the separation between the equipment and receiver.

Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

Consult the dealer or an experienced radio/TV technician for help.

**Radiation Exposure Statement:**

This equipment complies with FCC radiation exposure requirement. The device can be used in portable exposure condition without RF striction