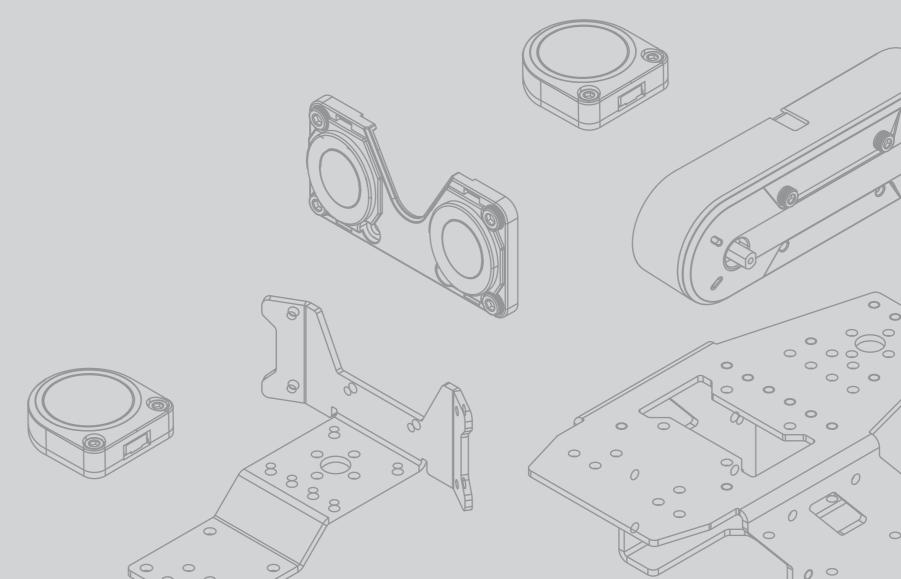
## MoonRover

Extended



### READ BEFORE START

Dear parents, please read this guide carefully before assembling for the safety of your children while they are playing with the MoonBot Kit.

This product is designed for children aged 8 and older. Younger kids should play under the guidance of parents. Please assemble according to this manual step by step. Wrong assembly may cause broken parts or abnormal behaviors.

#### **WARNING:**

- 1. Be cautious of sharp parts of metal pieces, that running parts may cause pinch.
- 2. Please assemble or disassemble them carefully.
- 3. Please keep this product away from heat or water.

#### **CAUTIONS:**

- 1. DO NOT twist the servos when Power is ON.
- 2. DO NOT throw or drop Robot or any parts.
- 3. DO NOT cover the camera, as covering the camera will affect the recognition result of your MoonBot.

#### POWER MODULE(Battery)

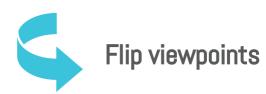
- 1. Do not disassemble the lithium battery module to avoid dropping, impacting or squeezing the lithium battery. Avoid using it in humid, low temperature (below 0 degree) and high temperature (above 50 degree). Keep away from fire and do not soak.:
- 2. The charging process is a non-linear process. The first 95% of the electricity will be charged quickly, and the last 5% of the electricity will be used for a long time, which is normal;
- 3. Please charge when the power is at a low level. If the

battery is charged when the battery is at LED4 (100%), LED4 (100%) may be flashing at all times. At this time, it is not necessary to continue charging, and it can be used directly;

- 4. Although the lithium battery has a perfect protection circuit inside, it is necessary to avoid the following situations during use, overcharging, overdischarging, electrode short circuit, current backflow, high current output;
- 5. When the lithium battery module is not used for a long time, please keep the lithium battery at 75% of the power for storage;
- 6. Lithium battery has a certain service life, and its battery capacity will be attenuated with the use time. When the battery life cannot meet the daily use requirements, it is recommended to replace the new lithium battery module;
- 7. The waste lithium battery module should be disposed of properly and should not be discarded at will.

\*因版本更新产品和说明书可能会略有不同,不会影响安装和使用,一切请以实物为准。

### SYMBOLS & LEGEND





#### **Screw Case**

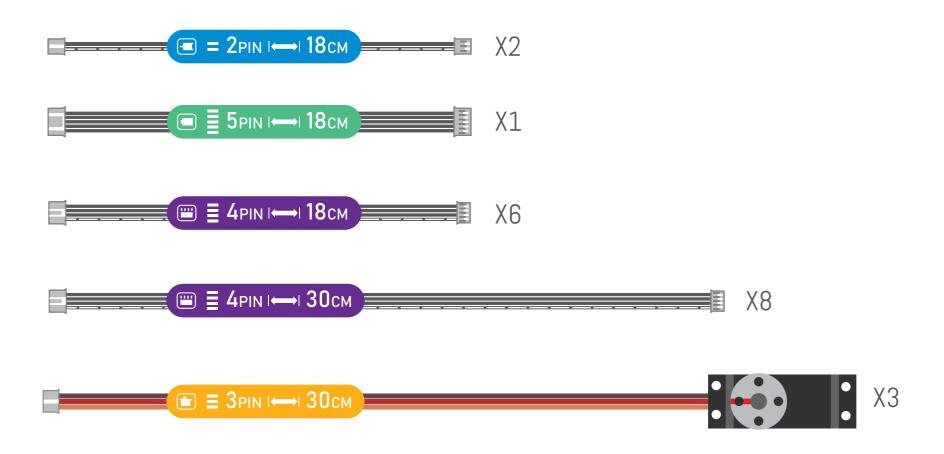




Please compare the length of the screw as shown in Figure 1:1.

### **WIRES**

You can use these wires to connect the modules, Please pay attention to the pin number and length of the wires.



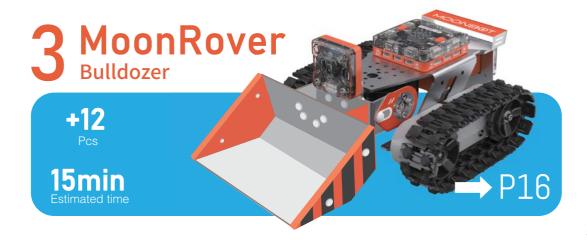






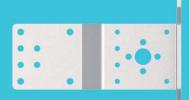


Please complete the basic MoonRover in the Quck Start Guide first. Then find the instructions to construct the extended rover on the right.



## 1 MoonRover Obstacle avoidance





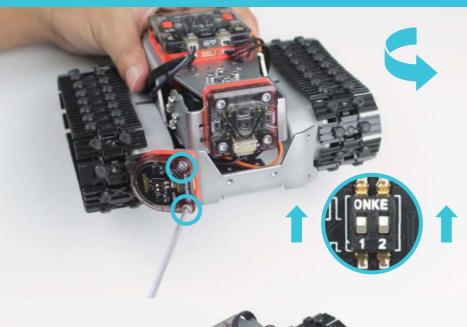


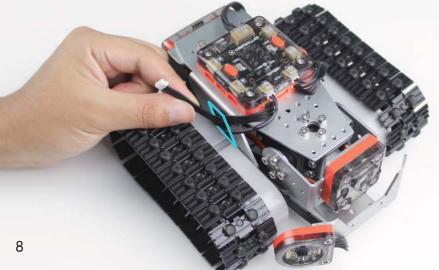


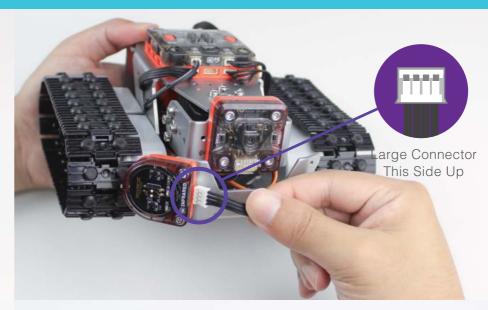


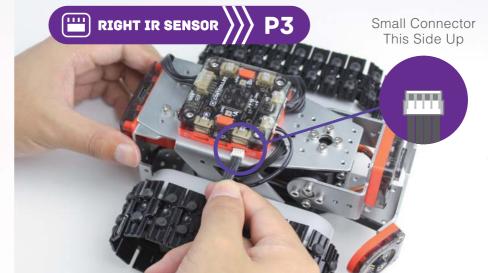








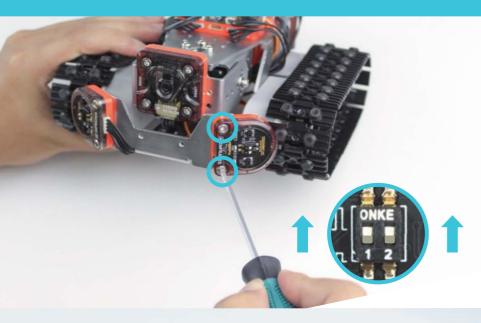


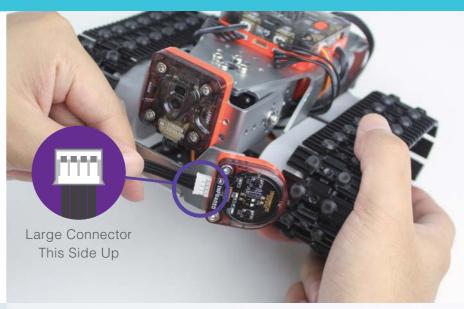


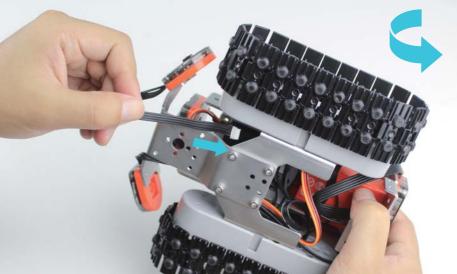


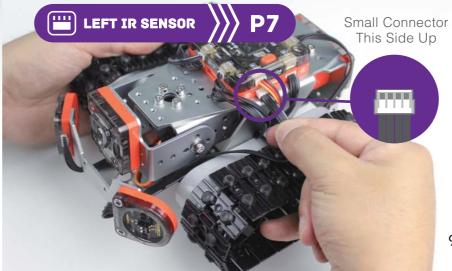








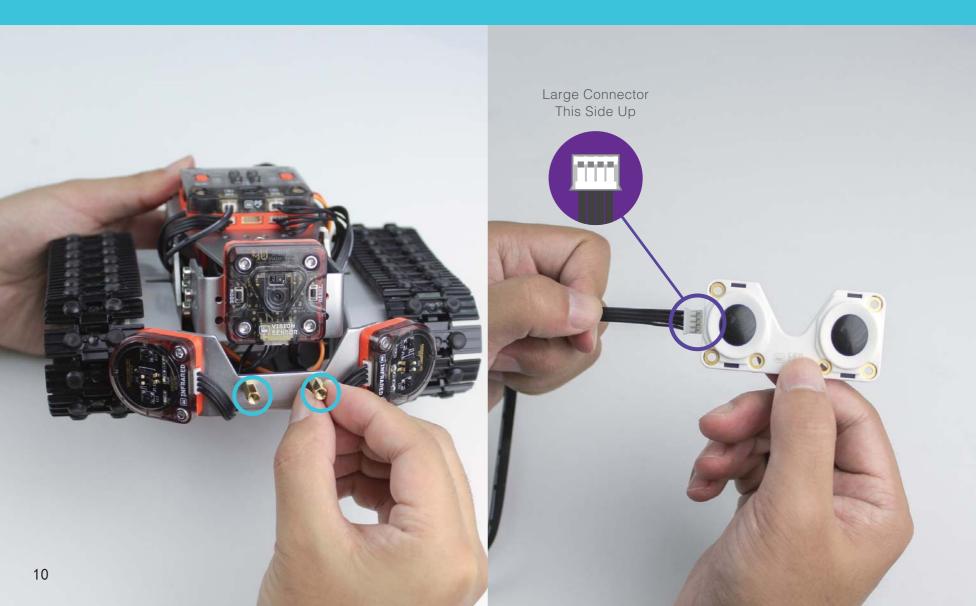






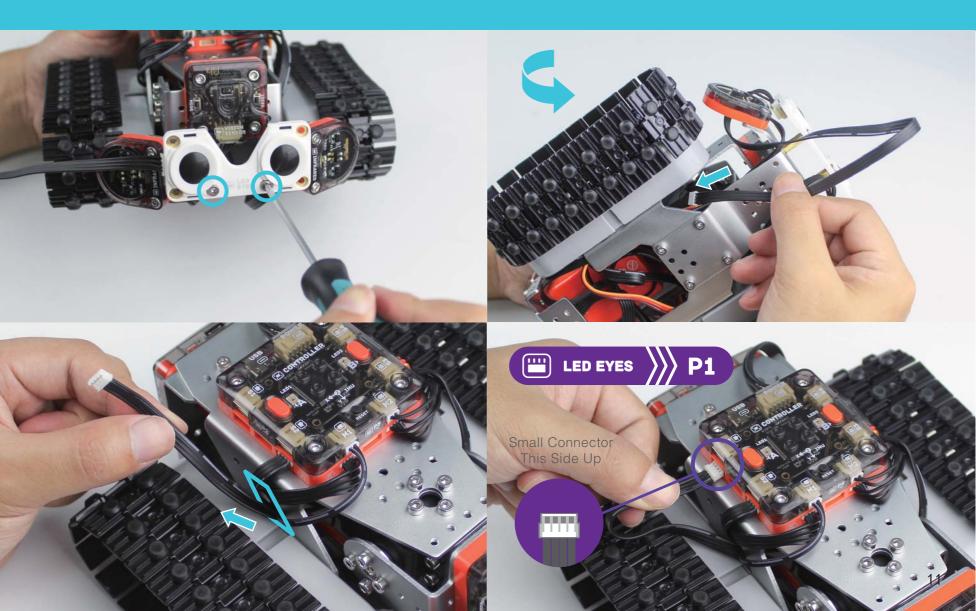




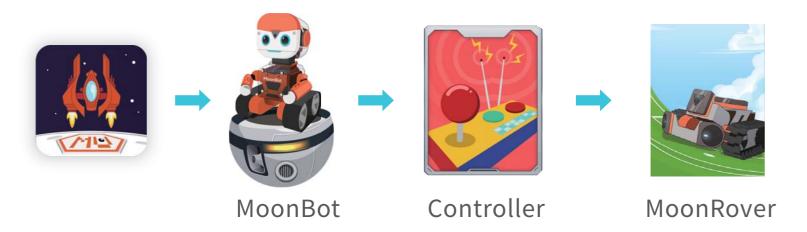


1.5 M3X4 X2



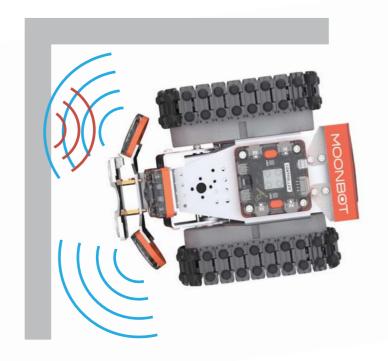


### Turn on the Obstacle avoidance

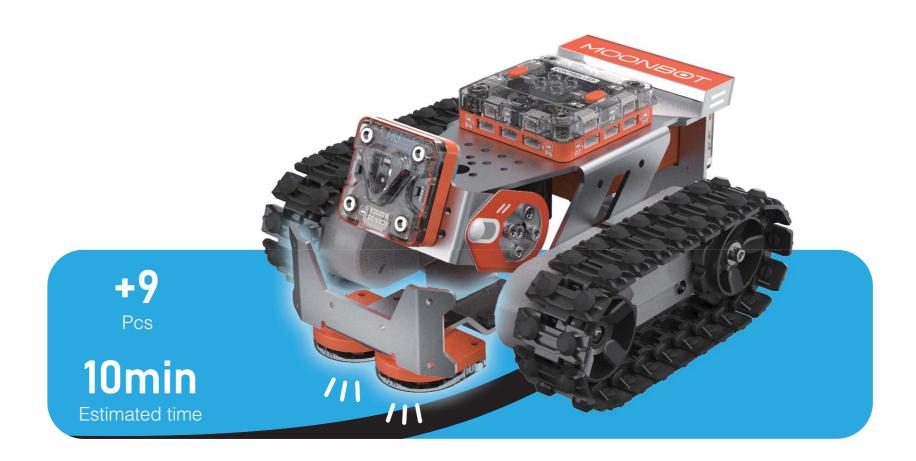




Push this button in the App can switch on the obstacle avoidance. The Infra-red module senses the obstacles in the front and makes the rover turn.

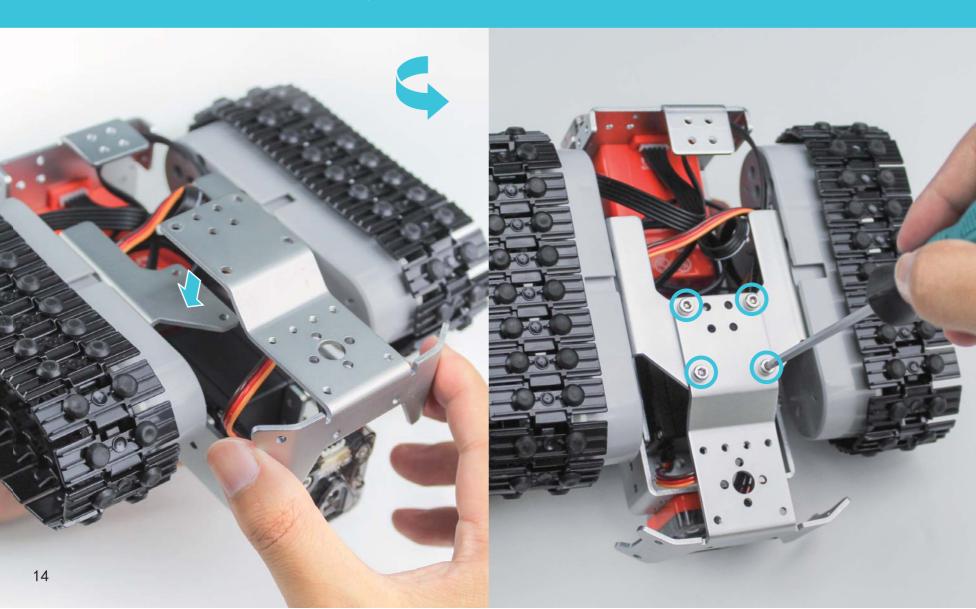


# 2 MoonRover Line Following







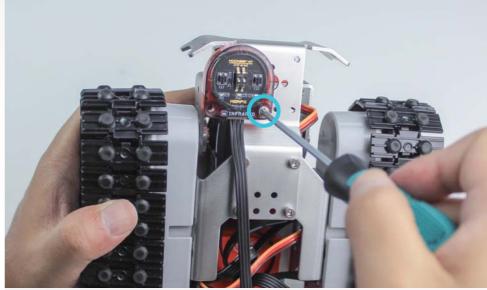


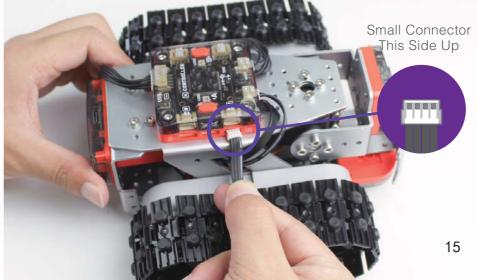








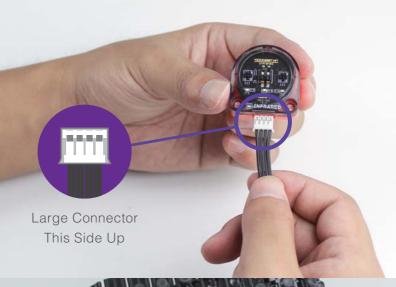


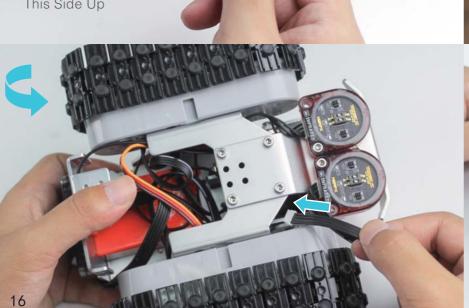


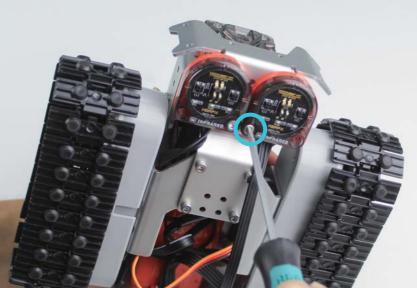


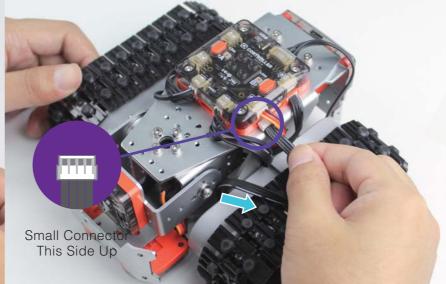




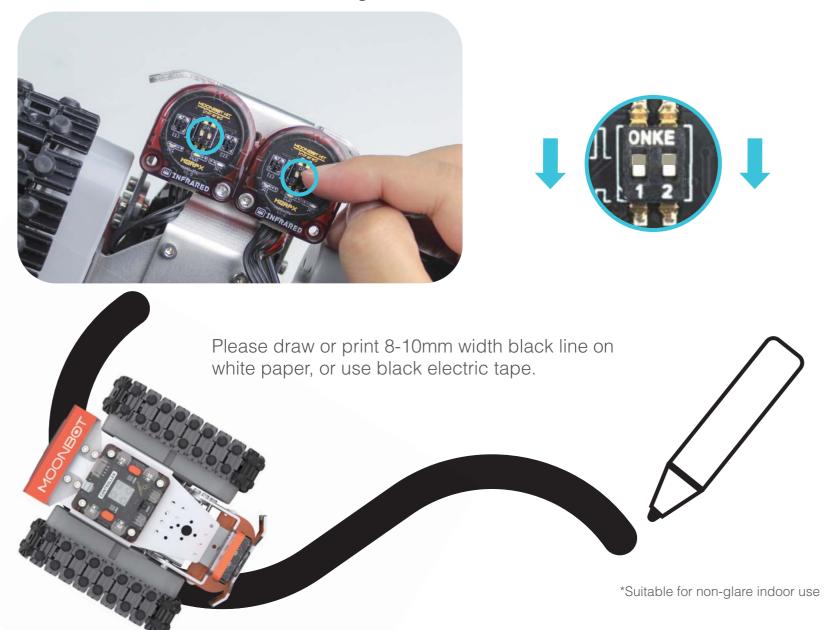




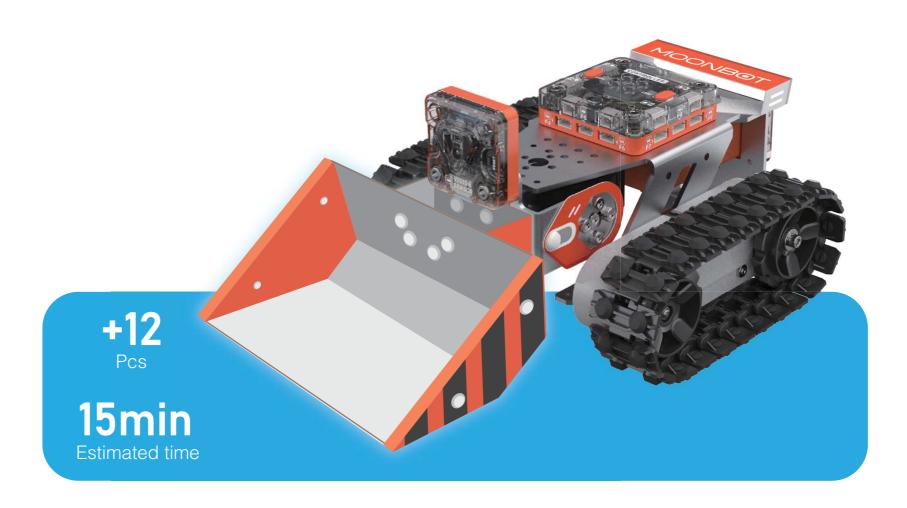




Toggle the four small switches to the lower setting to switch the Infra-red to the short distance sensing mode.

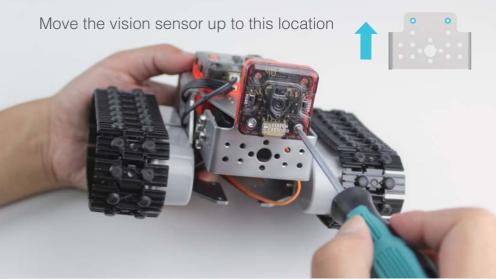


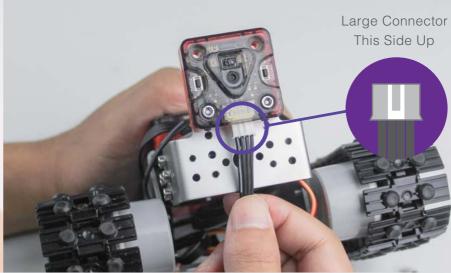
# 3 MoonRover Bulldozer

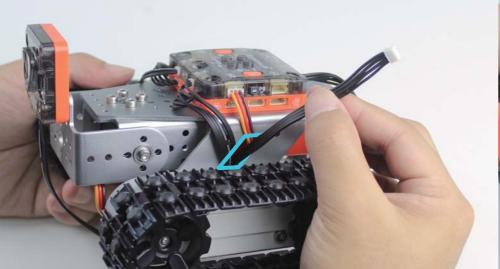


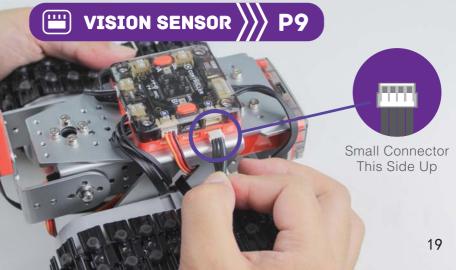


















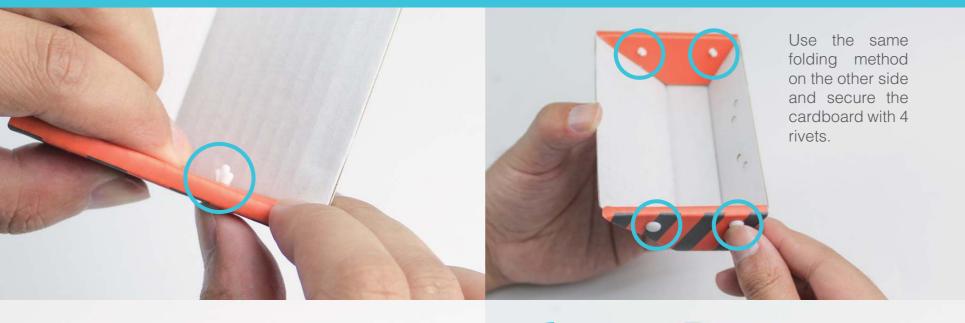


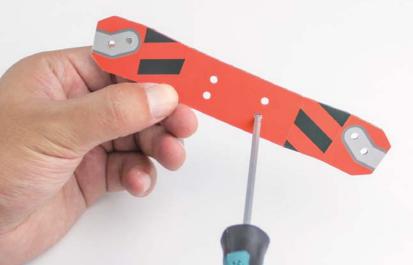


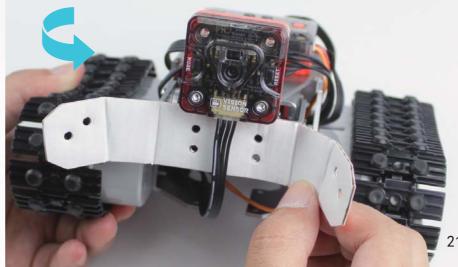




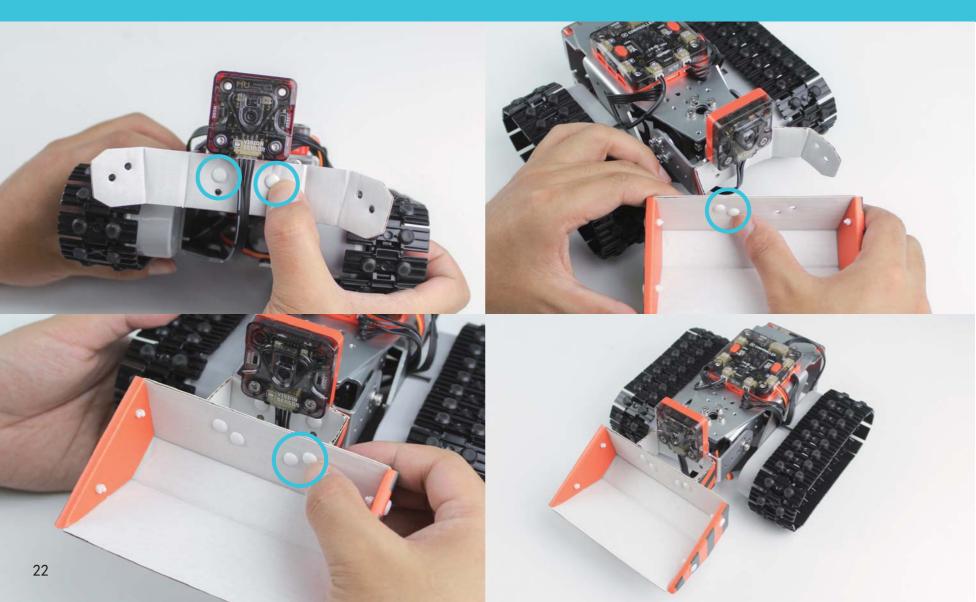












## Remote control via app





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