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RobotistanINC

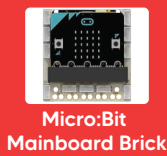
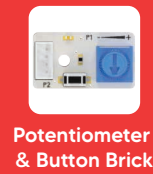
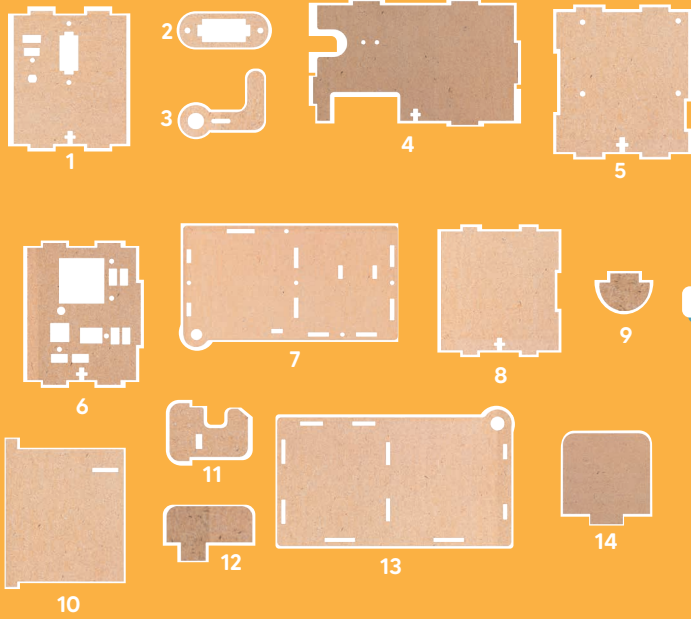
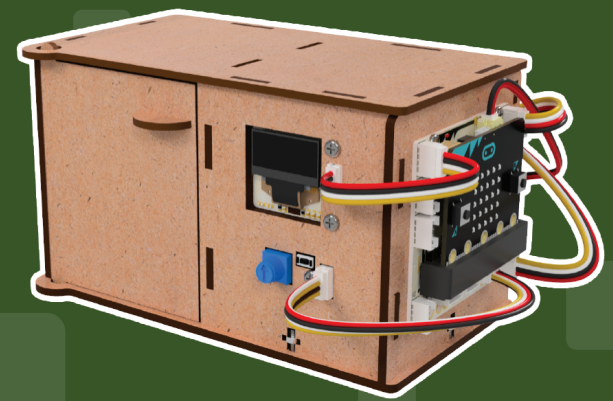
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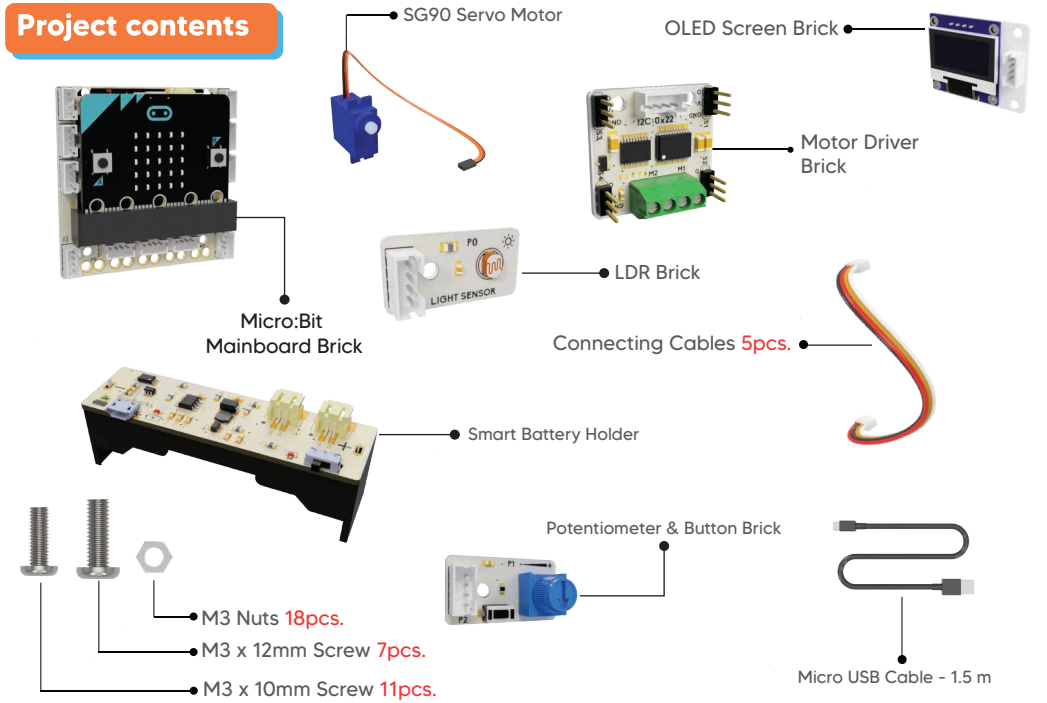
Th Thonny

Python

Safe Box

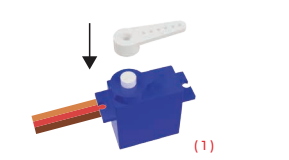


Project contents

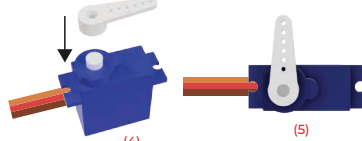
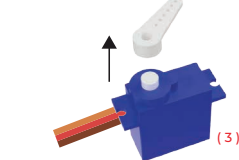


Servo Motor Calibration

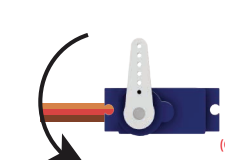
Before starting the assembly, you have to manually calibrate the angles of the servo motors. Otherwise, Servo Motors won't be working properly.



Then slowly turn the servo horn clockwise until it stops. It is not a problem if the servo horn is not the same as the angle shown in the image above. The important thing here is that you have hit the last angle of the servo. (2)

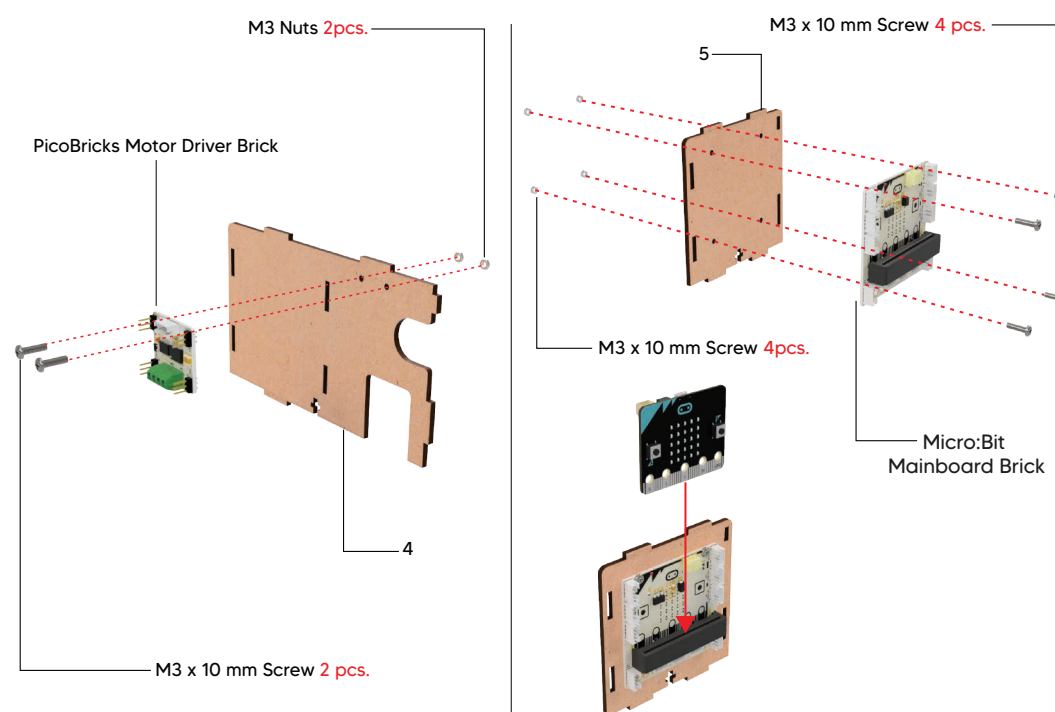
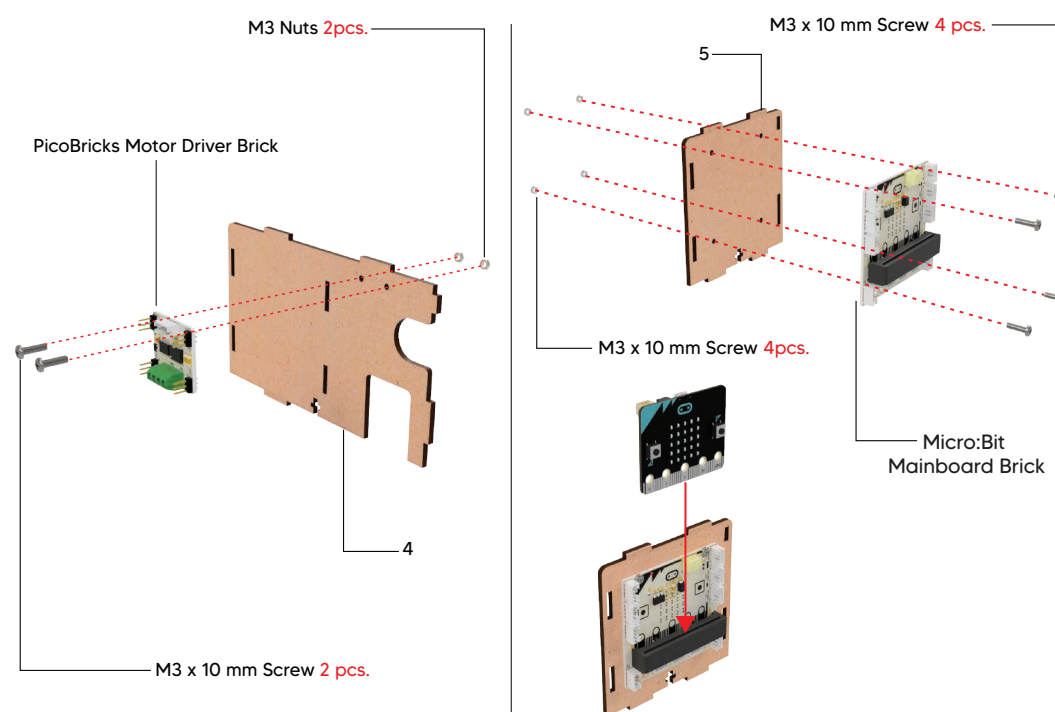
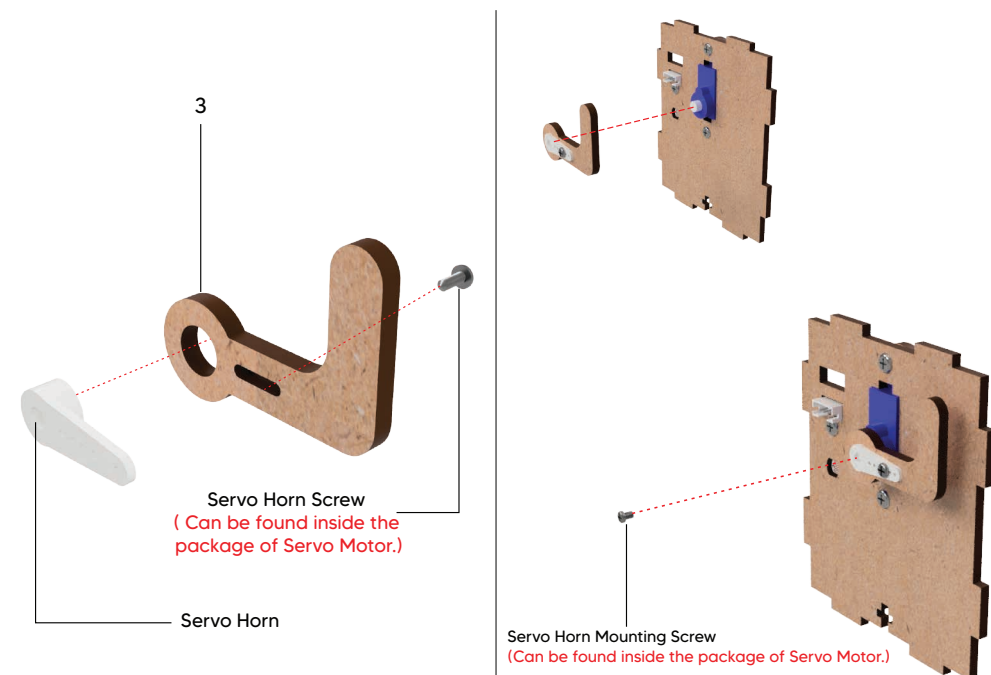
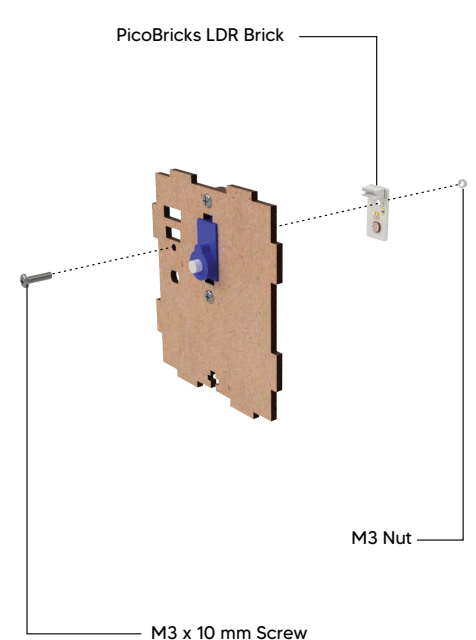
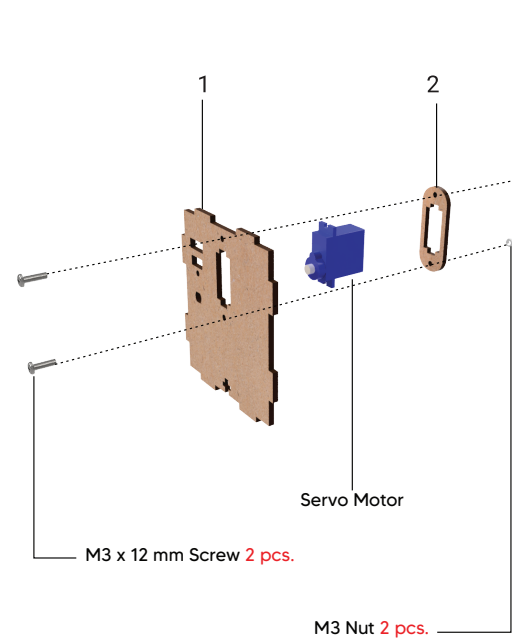


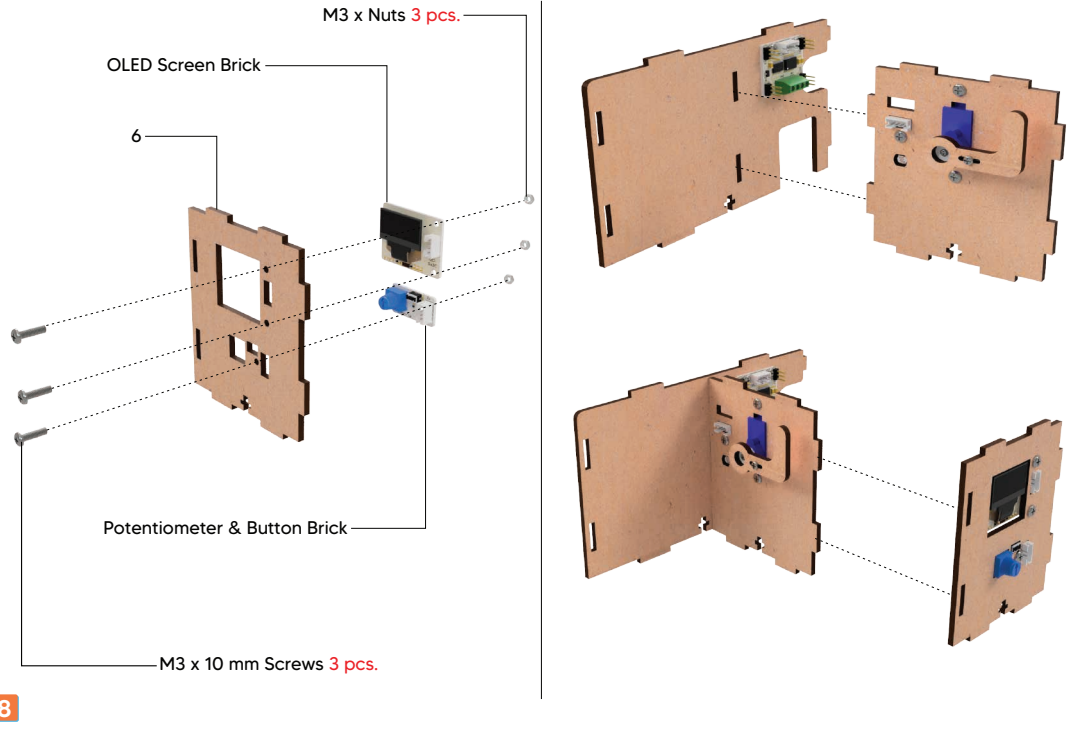
Reattach (4) and reposition the servo horn perpendicular to the servo motor as shown. (5)



Slowly turn the servo horn counterclockwise (6) until it is parallel with the servo motor, as seen in the image. (7)

When this step is finished, it means that the servo motor is in the center position. It is important that you apply this process to other servo motors in the set. After processing the other servo motors, remove the servo horn and set aside for assembly.

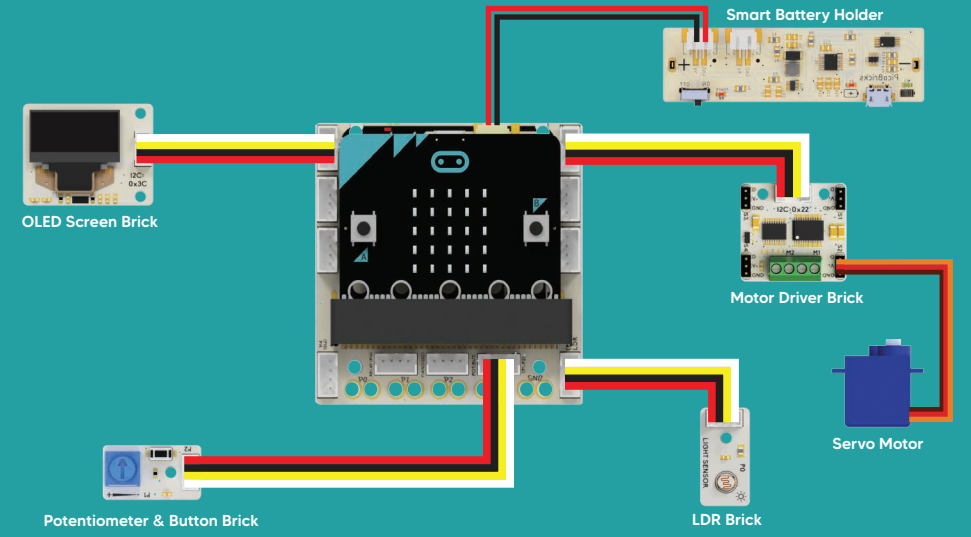




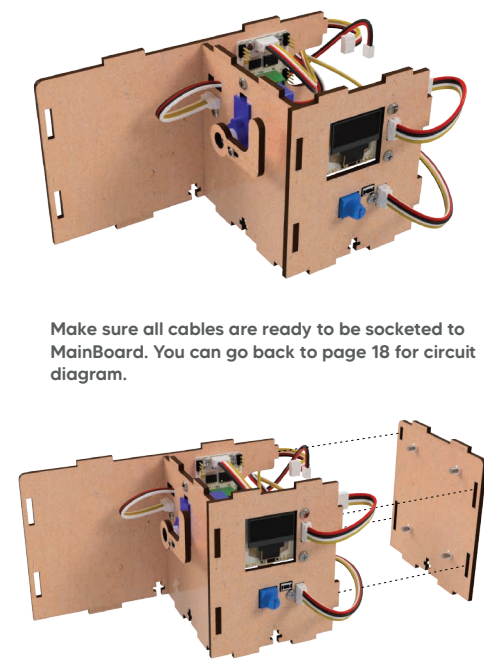
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Setting Up The Circuit

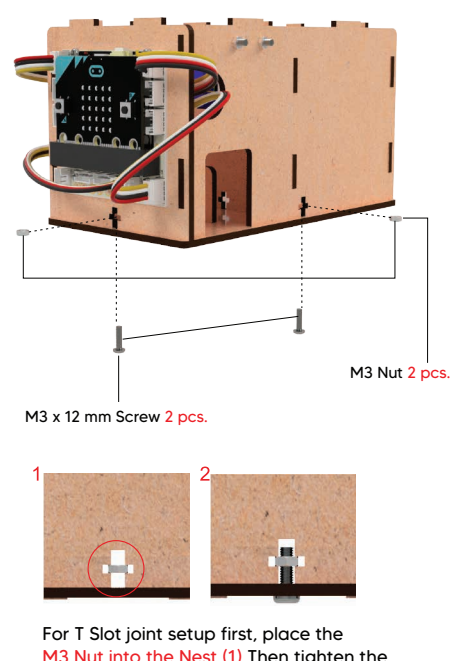
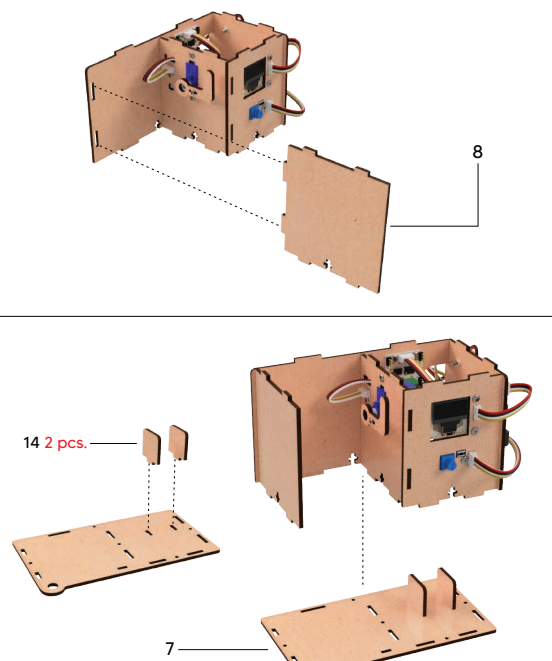
Let's get to know the circuit elements of Safe Box that we completed the setup and make the circuit setup with PicoBricks modules.



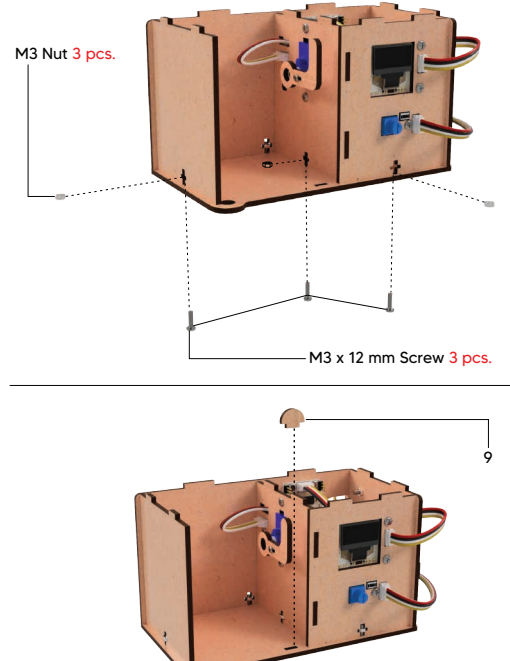
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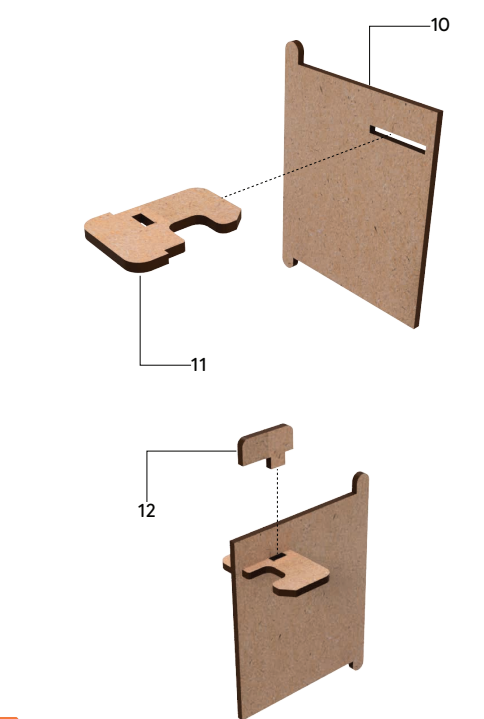
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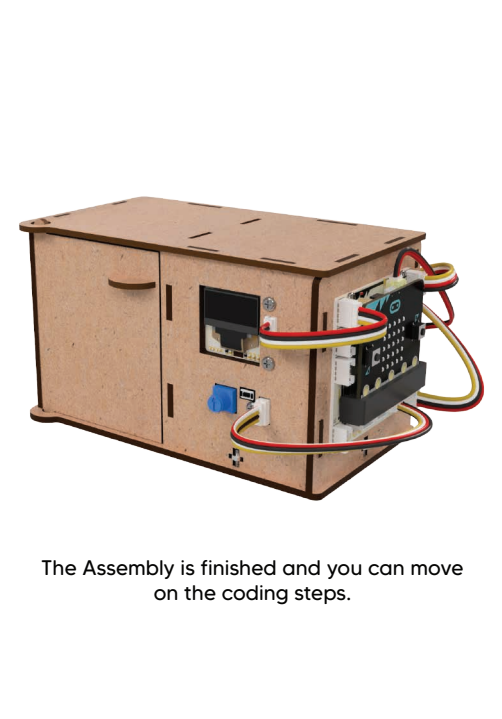
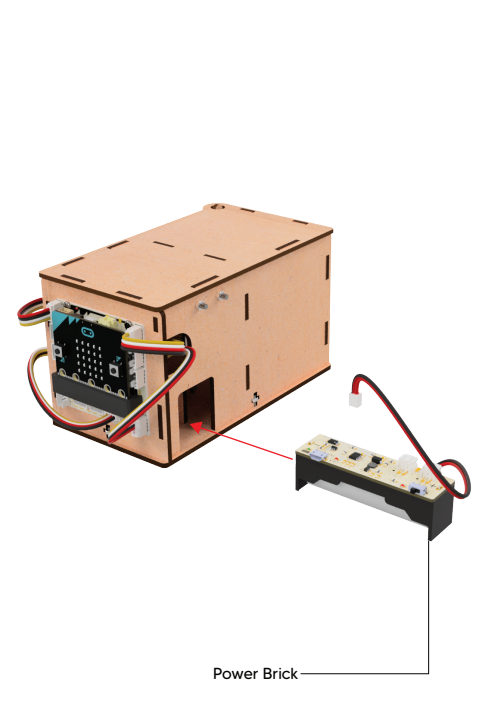
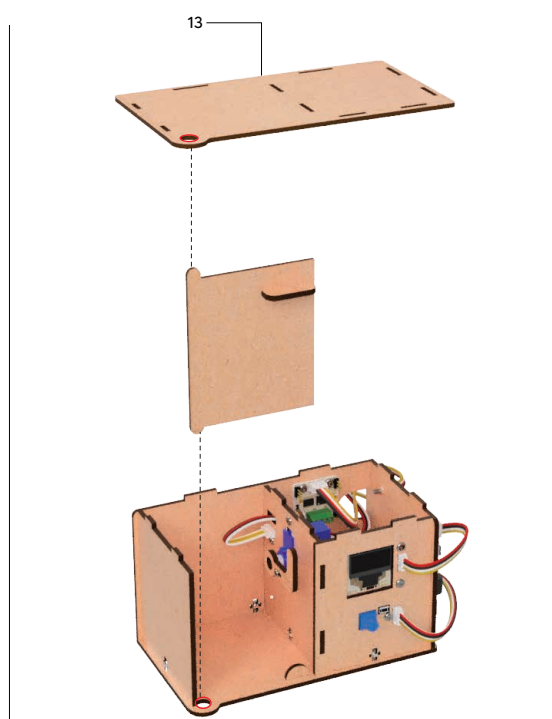
For T Slot joint setup first, place the M3 Nut into the Nest (1) Then tighten the Joint with using M3 x 12 mm Screw.(2)



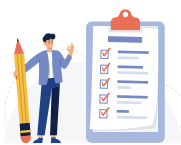
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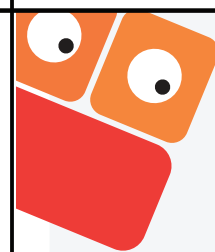


CHECKLIST

If Safe Box is not working properly after completing the installation, you can check the steps below.

- ☐ Did you connect the servo cable in the correct direction?
- ☐ Are you sure that the capacity of the battery you use is fully charged?
- ☐ Did you insert the battery by paying attention to the polarity?
- ☐ Did you correctly connect Micro:bit Board to the main board?
- ☐ Did you connect the servo motor to the pin specified in the code?
- ☐ Make sure that moving parts are correctly attached to the servo motor use the servo horn mounting screw while attaching the that has servo horns on them.

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By scanning the QR code, you can access sample code for the project, STEM activity examples, and educational content. The Safe Box Education Book includes the PicoBricks IDE, MicroBlocks, Thonny, and Arduino code, necessary for the project, as well as computing and unplugged STEM activities for educators.

rbt.is/safeboxeducation



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