Copernicus
educational products

Assembly Guide
RS100_2019_D

Check out our other products online at
www.copernicused.com

WARNING **!**

- **This product is meant to be assembled by an adult.**
- **In its unassembled state, small parts present a hazard.**
- **To be used under direct supervision of an adult.**

Copernicus
educational products

Assembly Guide
RS100_2019_D

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For assistance, please contact us:

1-800-267-8494
Email info@copernicused.com
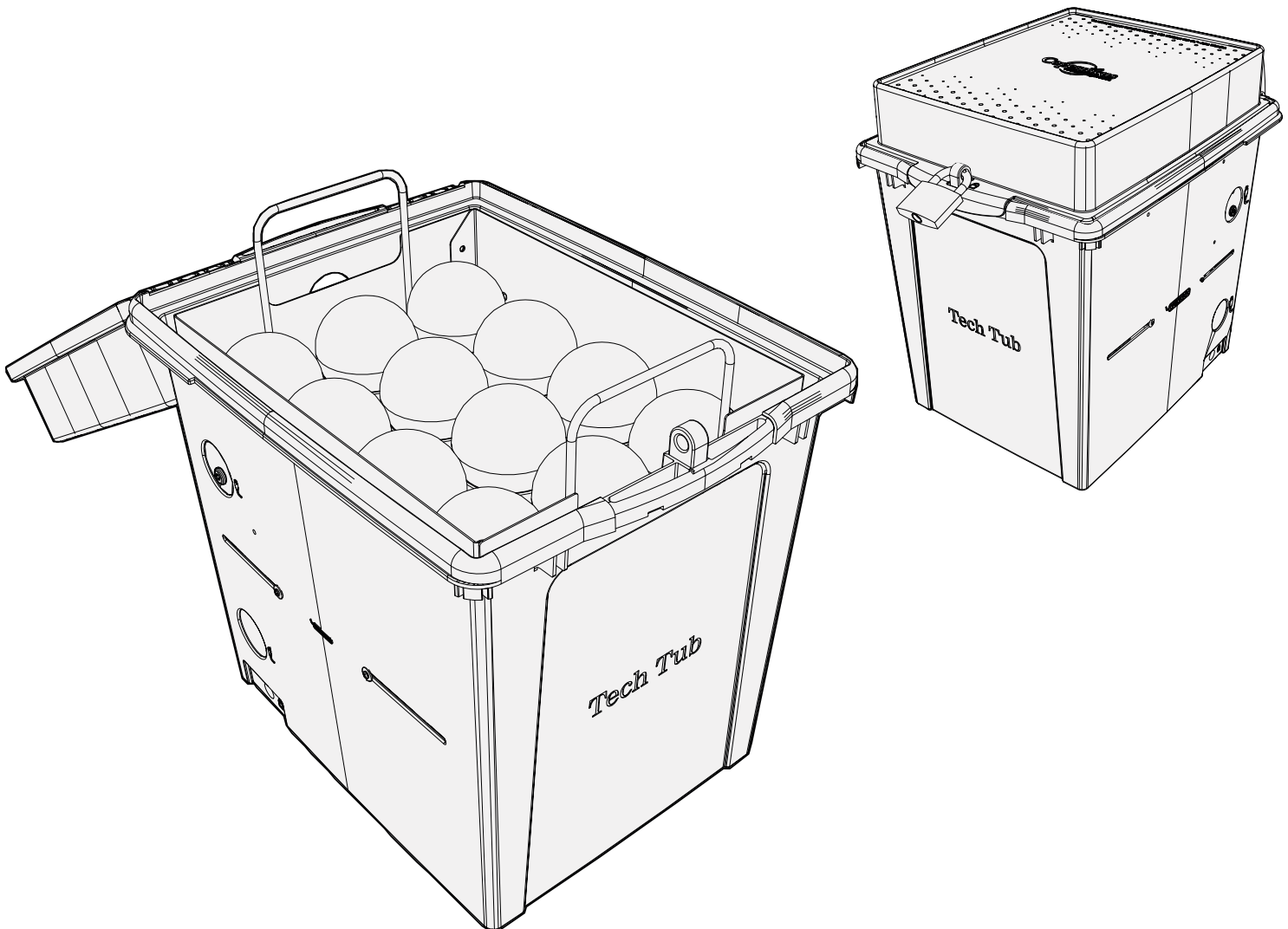**Have your packing slip ready for reference**

Dear Educator,

Thank you for purchasing the Small Robotics Storage Tub. We hope it meets all your expectations and you and your students enjoy using it at your school.

If you have any questions, concerns or ideas on how we can improve please let us know by contacting our Customer Solutions Ninjas at 1-800-267-8494 or info@copernicused.com.

Happy teaching,

Kaylyn Belcourt-McCabe
President

We do not inherit the earth from our ancestors, we borrow it from our children.

NORTH AMERICAN PROVERB

Change is the end result of all true learning.

LEO BUSCAGLIA

What you leave behind is not what is engraved in stone monuments, but what is woven into the lives of others.

PERICLES

Education is the most powerful weapon which you can use to change the world.

NELSON MANDELA

Life Time Tub Warranty

1 Year Electrical Component Warranty

Validate Your Warranty

To validate your warranty, submit the ON-LINE form at **www.copernicused.com**
Enter a draw to win a Copernicus Product for your classroom at the same time!

Warning! Hazard Risks!

Please read the warnings below for important safety information regarding your product. Failure to read these warnings or to follow the instructions below could result in personal injury or damage to your product that could void your warranty.

Small Parts

In its unassembled state, this product contains parts that can be hazardous to small children. This product should be assembled by an adult.
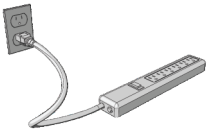
Adult Supervision

This product is to be used under the supervision of an adult.

Indoor Use Only

This product is intended for indoor use only. To reduce the risk of fire or electric shock, do not expose this product to rain or moisture. The internal components are not sealed from the environment.

Power Strip Specifications

Read your power strip electrical specifications. Only plug in devices that are approved for use with this power strip. Connect the supplied power strip directly to a wall outlet. **Do not connect to another power strip or use an extension cord.** Unplug when not in use. **Do not leave this product plugged in for more than 72 consecutive hours.** Turn off power strip before unplugging.
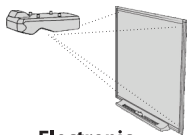
Electronic Equipment

Read the electrical specifications of any electronic equipment you are using with your Copernicus products. Failure to read these specifications and follow their instructions could result in damage to your equipment or personal injury.

Cable Trip Hazard

Ensure that any cables extending across the floor to your product are properly bundled and marked to avoid tripping or falling which may lead to personal injury.

Electrical Shock

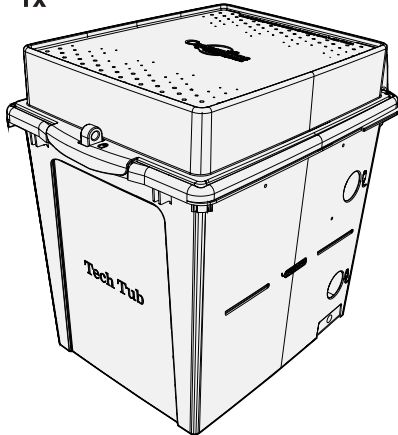Do not install or use the electrical components of this unit during a lightning storm.

Climb Hazard

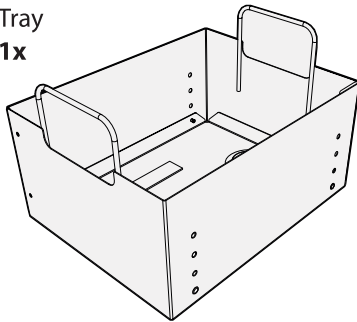Do not climb on, hang from or suspend objects from any components of your product unless otherwise specified.

3

Small Robotics Storage Tub

Before beginning, you should have:

RS100

Tub
1x

In Box 1

6 Port USB Hub
(255147)
2x

Tray
1x

Tray Floorboard
1x

**Stick On Hook & Loop
(Hook Side)**
(43323)
2x
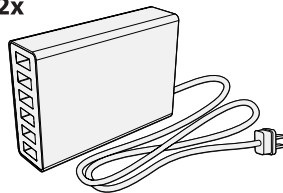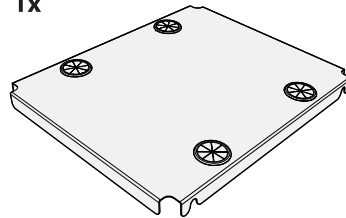
Hook & Loop Straps
(43321)
2x

Cable Hook
(34085)
2x
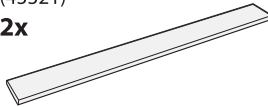
Padlock
(430440)
1x

Key
x3
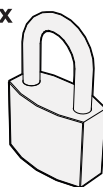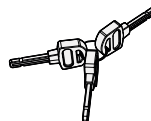
Hardware
(Actual Size)

(A) **M4 Wing Nut**
(4320921)
4x

(B) **M4 Lock Washer**
(430100)
4x

(C) **M6 x 15mm Barrel Nut**
(43272)
4x
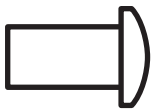
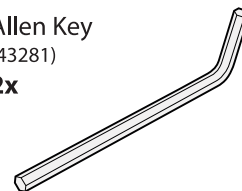(D) **M6 x 12mm Screw**
(432141)
4x

(E) **M6 Lock Washer**
(43273)
4x

Tools
(Not to Scale)

Allen Key
(43281)
2x

Tips for Assembly

Watch for These Helpful Symbols

This symbol denotes a 2 Person Task. For safety, please ensure that there are the suggested number of people working on steps displaying this symbol.

2-Person Task

Watch for this symbol throughout the Assembly Guide. Wherever you see it, pay close attention. The symbol denotes a step needing extra attention to ensure it is done correctly.

The star symbol highlights an advisory note.

Before You Begin

- Lay out and identify all of the included parts.

- The hardware has been packed according to step.

- Read the assembly guide over once to familiarize yourself with them.

! Please note that in its unassembled state, this product contains parts that can be hazardous to small children. This product should be assembled by an adult.

As You Assemble the Unit

- Follow the steps in sequence.

- Before beginning each step, find the part(s) that you need for that step.

- Pay attention to the labels on the parts; they are there to help direct you at certain stages.

- The title of each step states what you will be doing. Review the text and the pictures as you build the unit.

Customer Service - FAQ's

For missing parts and other issues regarding this product:
Please call Copernicus Customer Service, where we will be happy to help.
1-800-267-8494. Monday - Friday 8:30am - 4:30 pm EST.

OR

Email our Tech Support Service at info@copernicused.com

Need Tech Support?
Have a Question?

Email our Tech Support Service

Check out some of our other great products!
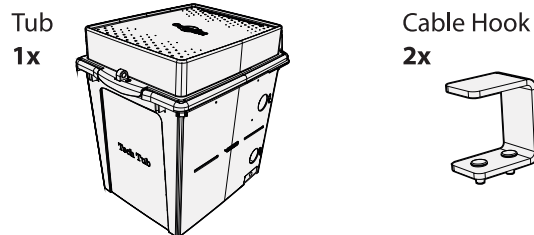
www.copernicused.com

1

Actual Size:

(A) M4 Wing Nut
4x

(B) M4 Lock Washer
4x

You will need: (Not to Scale)

Tub
1x

Cable Hook
2x

Install Cable Hooks

! Note orientation of cable hooks

(B) (B) (B) (B)
(A) (A) (A) (A)
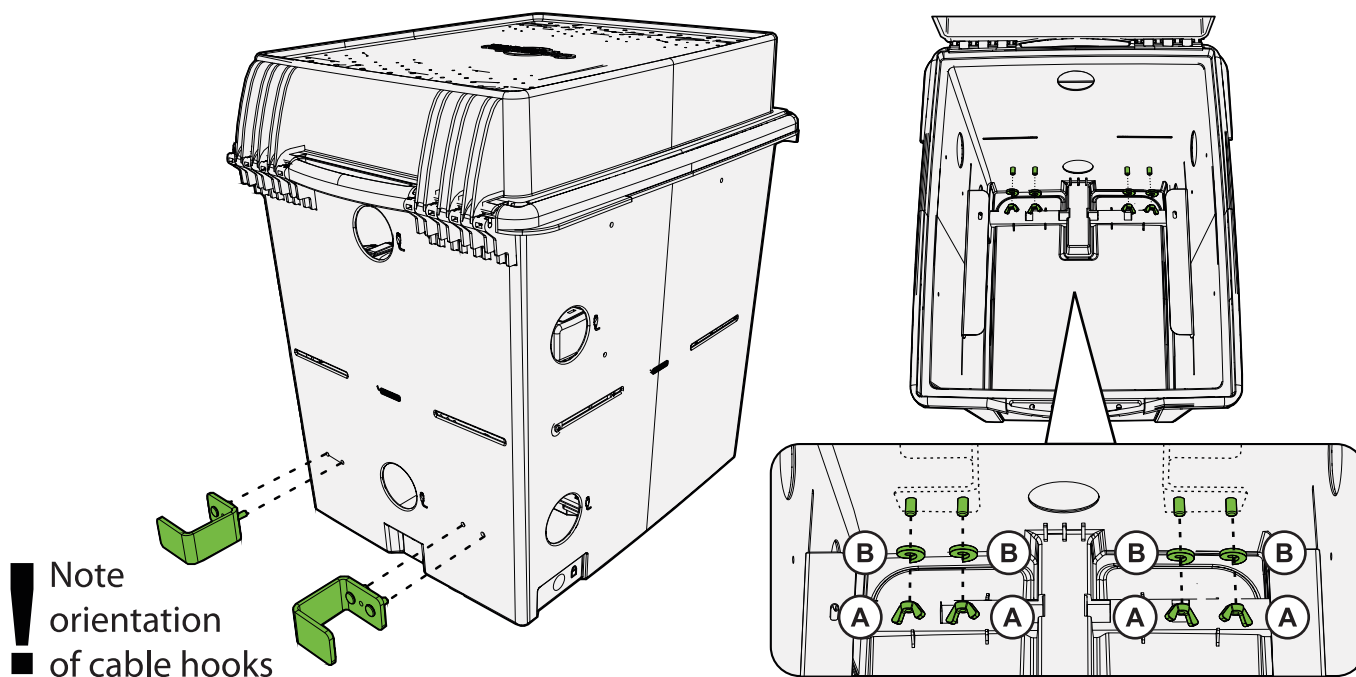
2

You will need: (Not to Scale)

6 Port USB Hub
2x
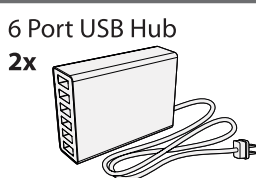
Stick On Hook & Loop
(Hook Side)
2x

Apply one strip of Hook & Loop to each USB Hub

Centered Horizontally

Centered Vertically

3
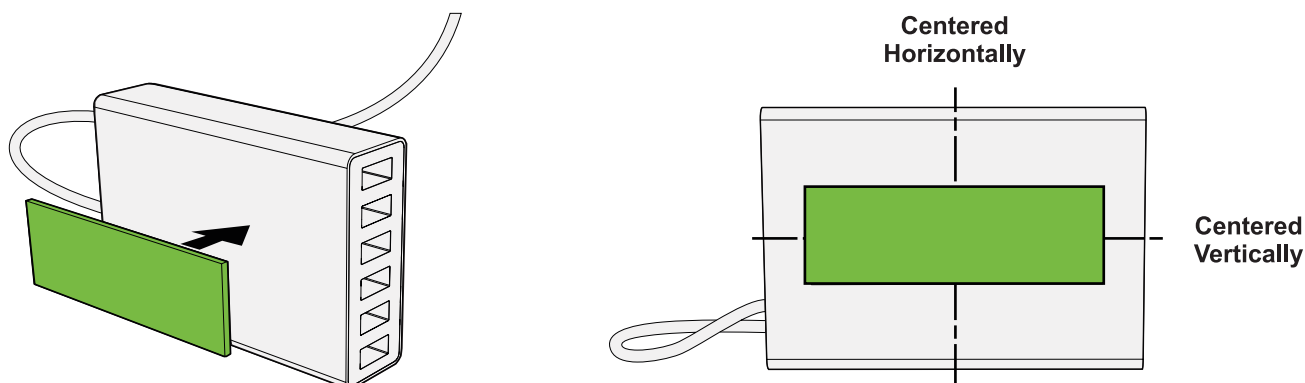
Actual Size:

Ⓒ M6 x 15mm Barrel Nut
4x
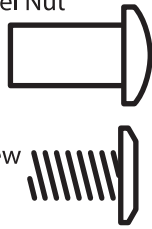
Ⓓ M6 x 12mm Screw
4x

Ⓔ M6 Lock Washer
4x

You will need: (Not to Scale)
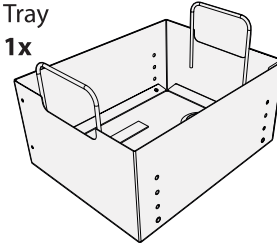
Tray
1x

Allen Key
2x
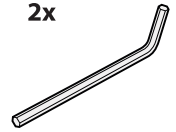
Install Tray Floorboard fasteners

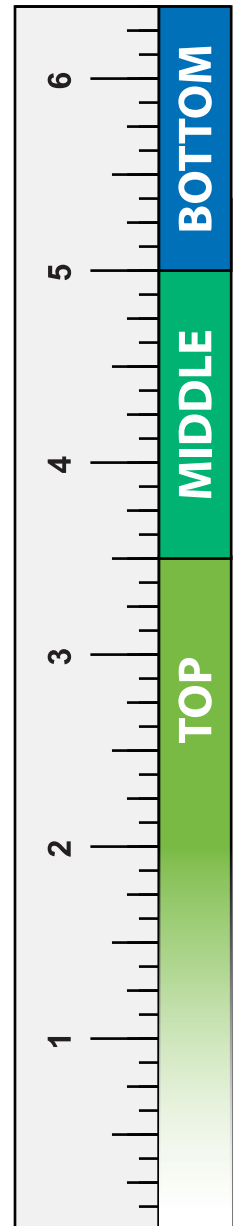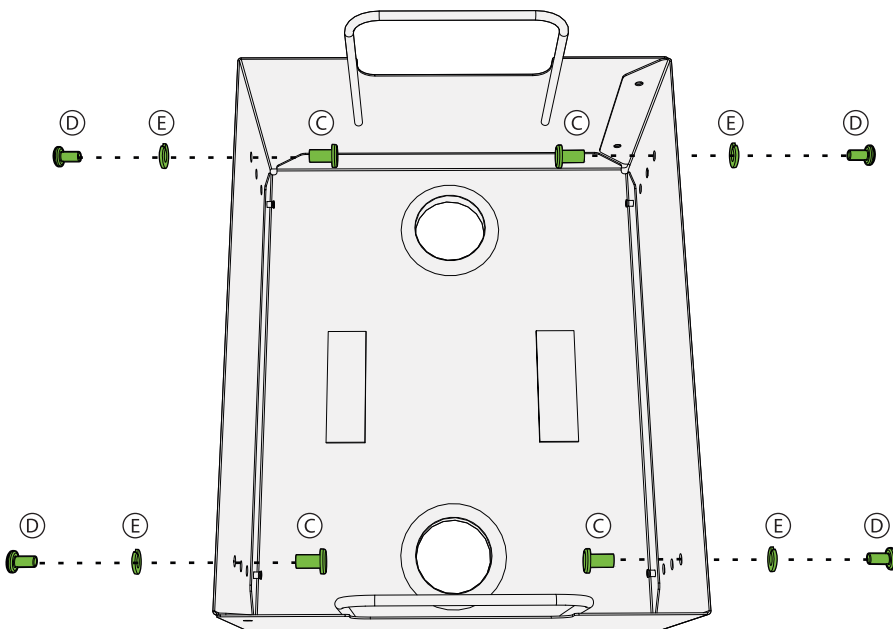① **Measure robot height to determine Floorboard position**

! **ALWAYS USE LARGEST ROBOT YOU HAVE TO DETERMINE FLOORBOARD HEIGHT**

MAX ROBOT HEIGHT 6-3/8" (16.2 cm)

② **Select the correct position based on the size of your robots**

TOP (Small)
MIDDLE (Medium)
BOTTOM (Large)

BOTTOM

MIDDLE

TOP
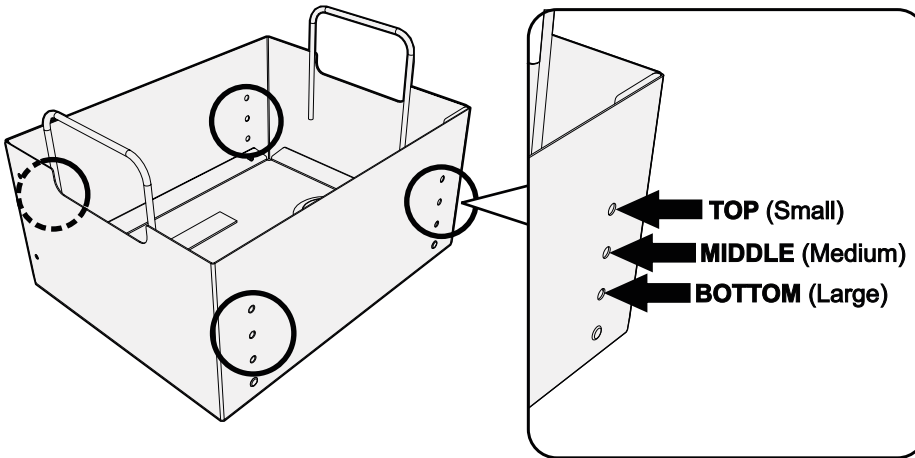
③ **Fasten the hardware in the selected position using Allen Keys**

Ⓓ Ⓔ Ⓒ Ⓒ Ⓔ Ⓓ

Ⓓ Ⓔ Ⓒ Ⓒ Ⓔ Ⓓ

Option 1 - All robots in Tray
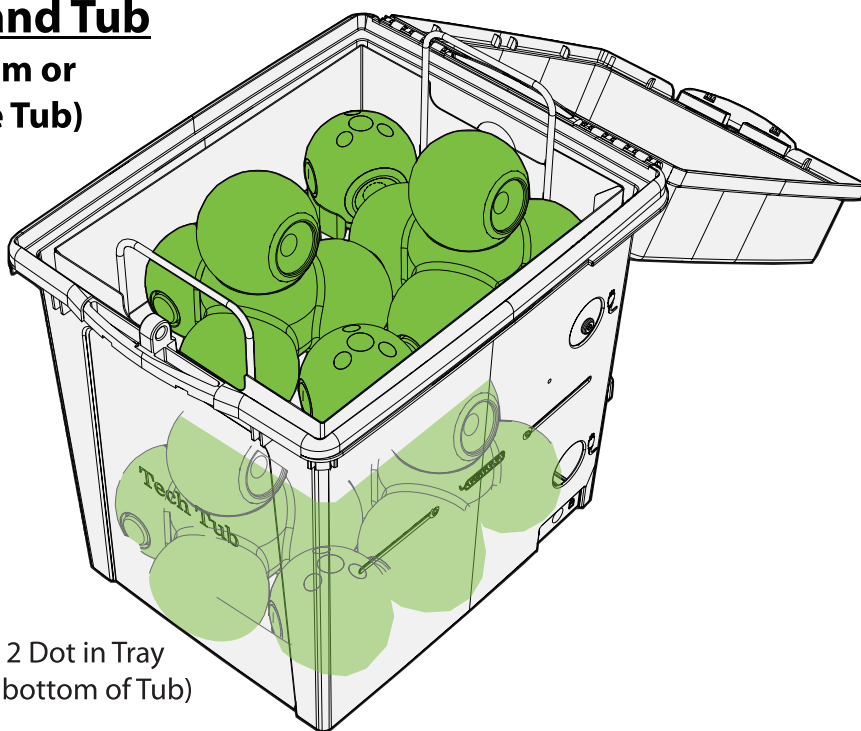**(Can accommodate up to 12 small or medium robots)**
FOLLOW STEP 4-6
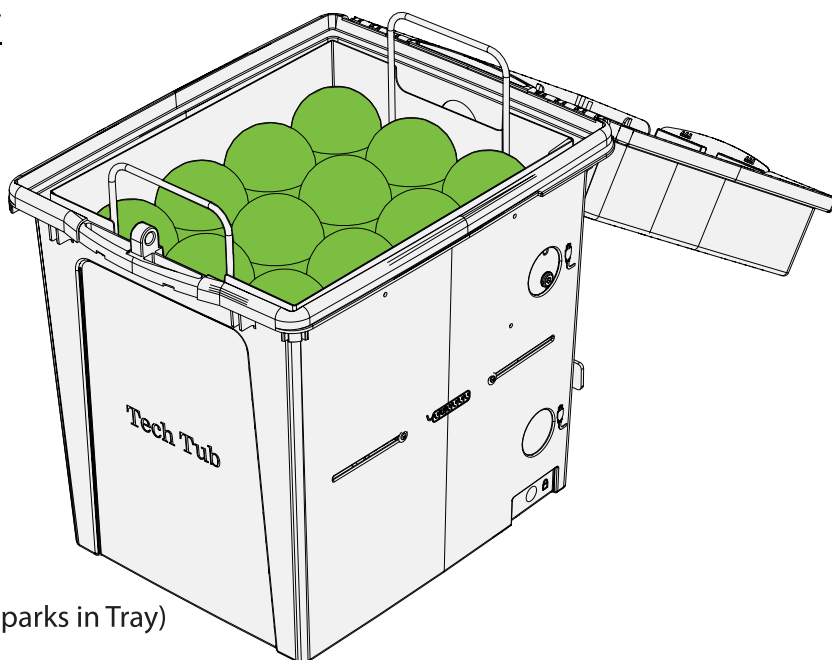
(Shown with 12 Sphero Sparks in Tray)

Option 2 - Robots in Tray and Tub
(Can accommodate up to 6 medium or large robots in the Tray and in the Tub)
FOLLOW STEP 7-10

(Shown with 2 Dash and 2 Dot in Tray
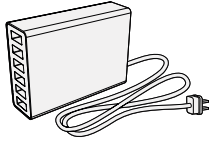and 2 Dash and 2 Dot in bottom of Tub)
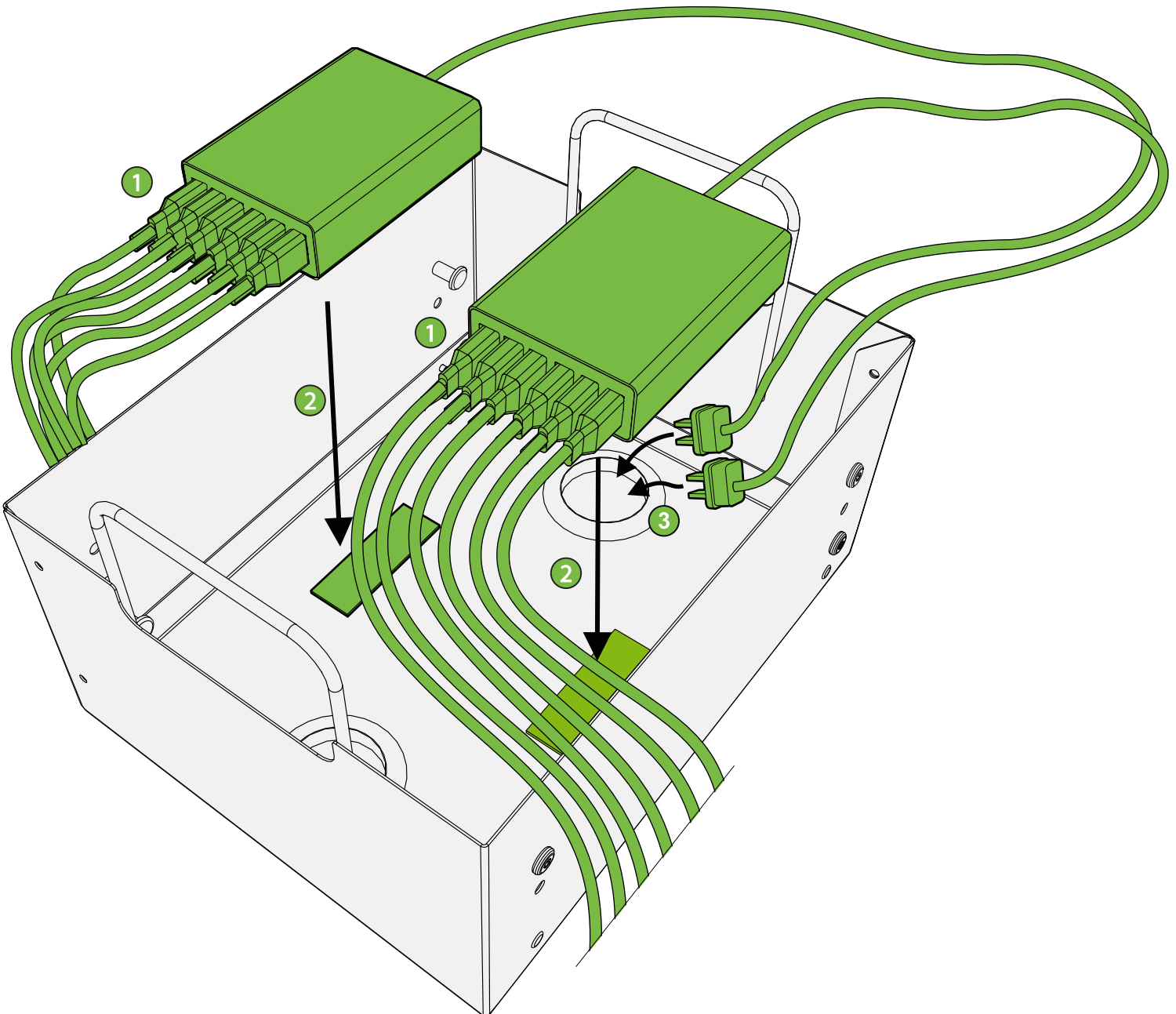
You will need: (Not to Scale)

6 Port USB Hub
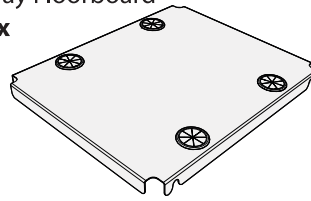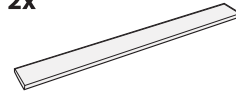**2x**

Install USB Hubs into Tray

1 Plug in up to 6 USB cables for robots into each USB Hub

2 Secure USB Hubs to Hook and Loop strips in bottom of Tray

3 Feed power cables through hole in Tray

12 USB Cables are shown below however you may require less depending on how many robots you can fit in the Tray.
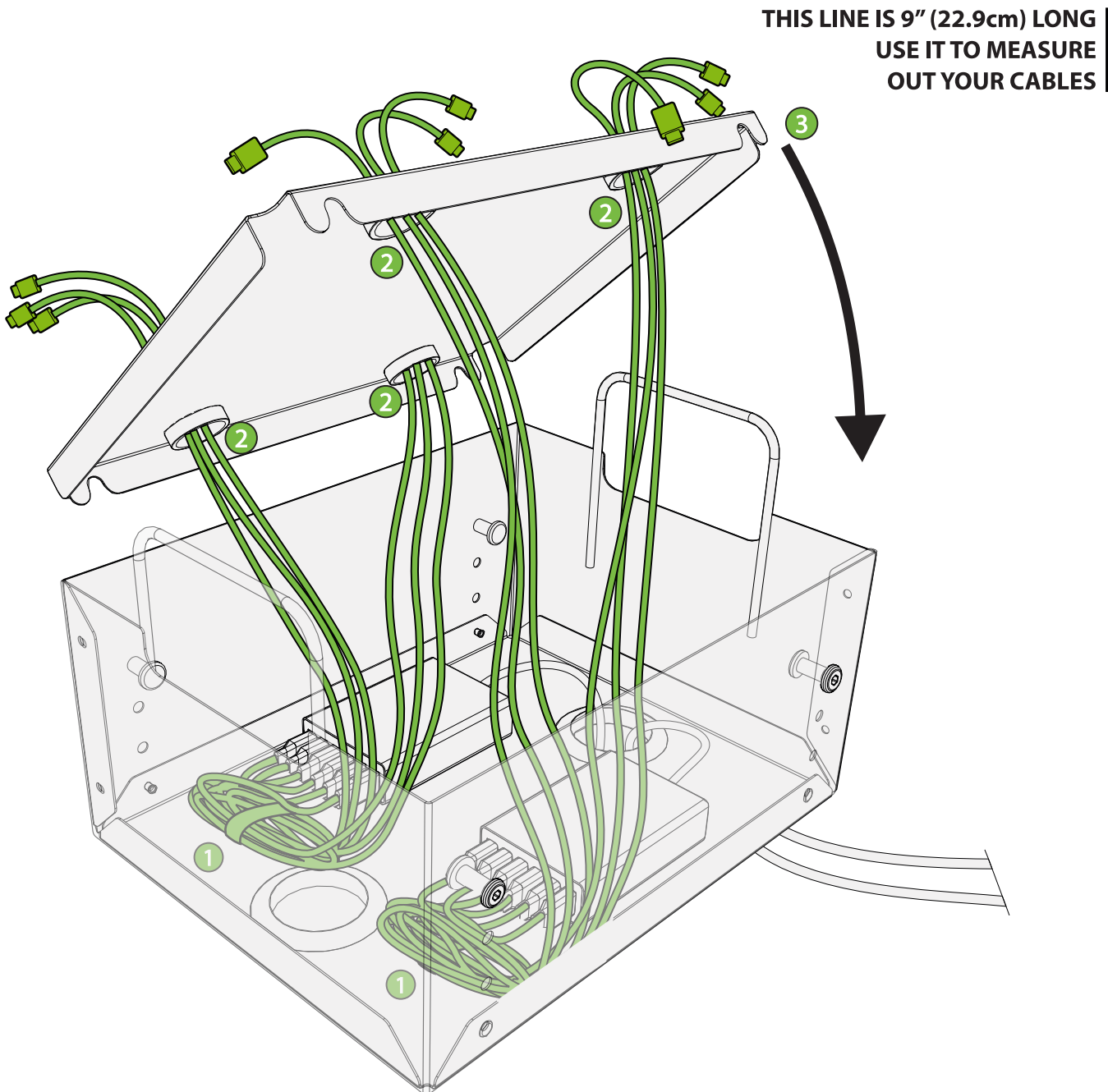
You will need: (Not to Scale)

Tray Floorboard
1x

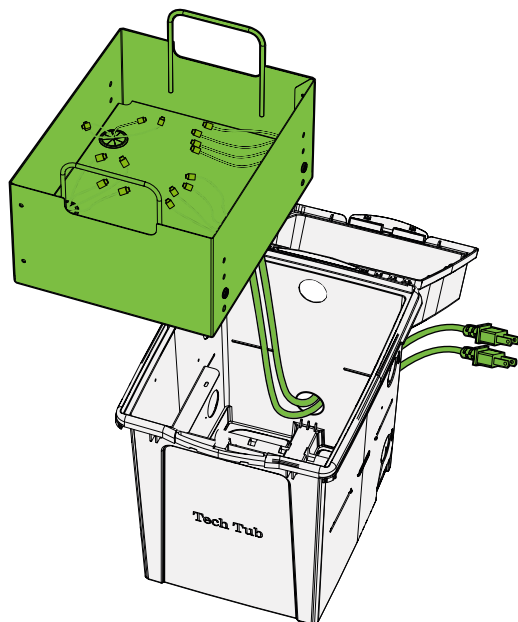Hook & Loop Straps
2x

Install Floorboard

1 Bundle USB cables with Hook and Loop Straps, leaving approx. 9" of cable free

2 Feed USB cables through grommets in Tray Floorboard

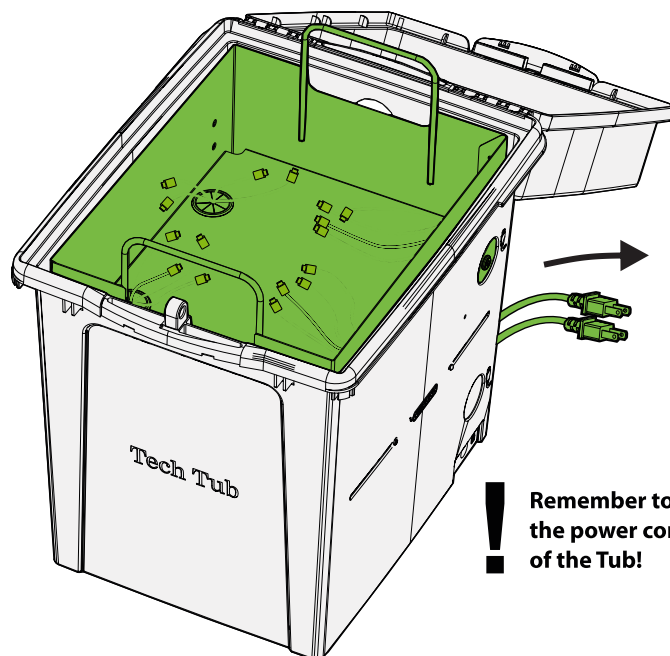**3** Place Tray Floorboard into Tray and rest on Barrel Nuts

**THIS LINE IS 9" (22.9cm) LONG
USE IT TO MEASURE
OUT YOUR CABLES**

You will need: (Not to Scale)

Install Tray and Robots into Tub

1 **Feed USB Hub power cables into Tub then out through hole on back of Tub**

2 **Place Tray into Tub**

! **Remember to pull the power cords out of the Tub!**

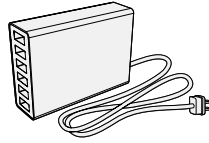**3** **Place up to 12 robots in Tray and plug in USB cables**
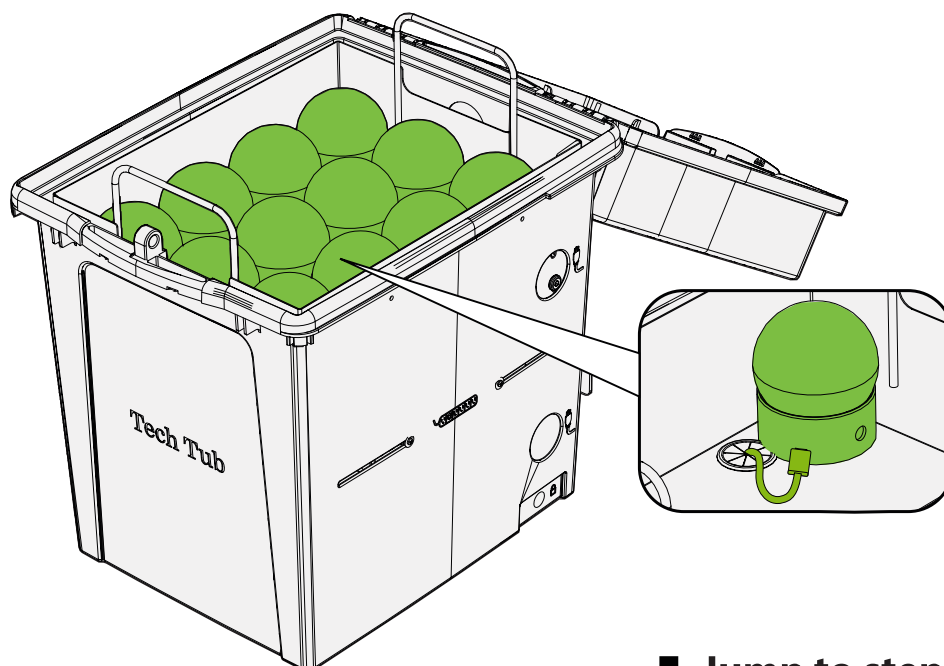
! **Jump to step 11 to finish Option 1 setup**
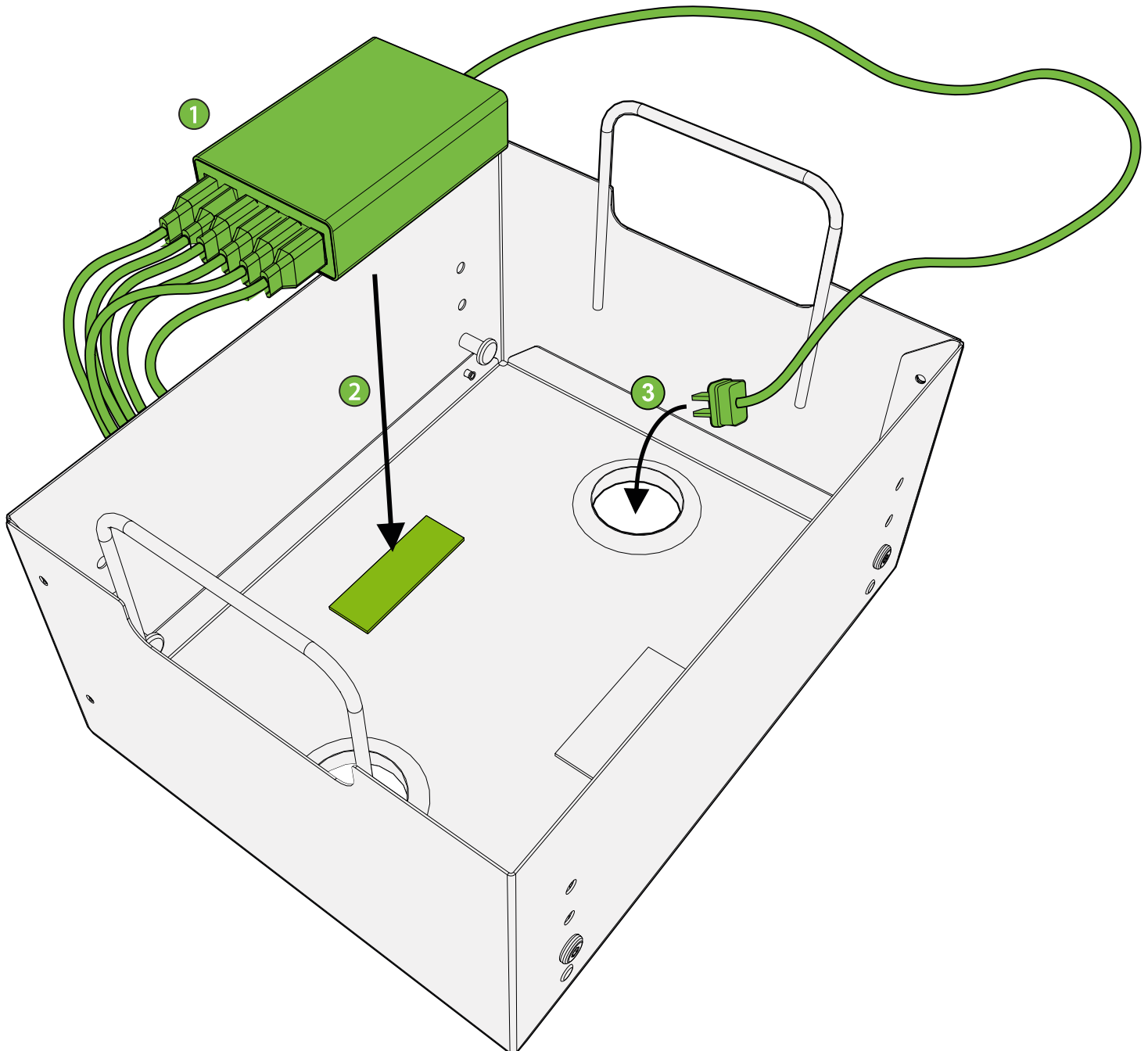
You will need: (Not to Scale)

6 Port USB Hub
1x

Install 1 USB Hub into Tray

1 **Plug in up to 6 USB cables for robots into USB Hub**

2 **Secure USB Hub to Hook and Loop strip in bottom of Tray**

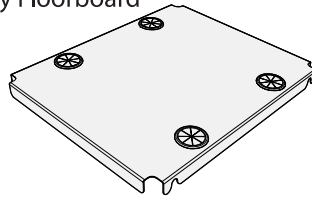**3** **Feed power cable through hole in Tray**

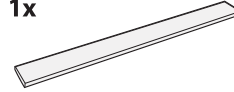**6 USB Cables are shown below however you may require less depending on how many robots you can fit in the Tray.**

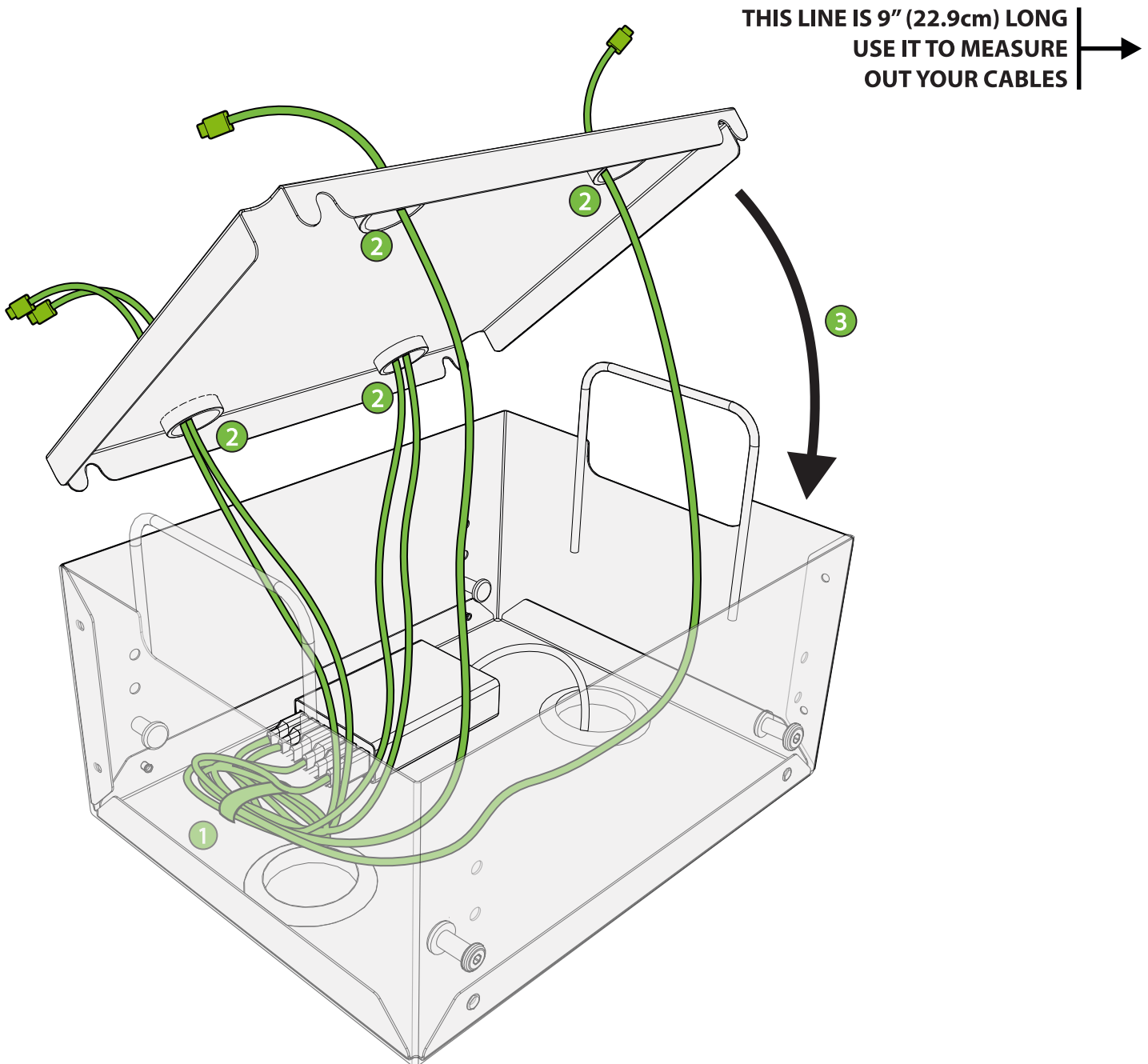You will need: (Not to Scale)

Tray Floorboard
1x

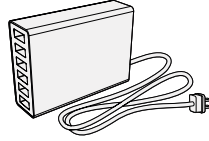Hook & Loop Straps
1x

Install Floorboard

1. **Bundle USB cables with Hook and Loop Straps, leaving approx. 9" of cable free**

2. **Feed USB cables through grommets in Tray Floorboard**

3. **Place Tray Floorboard into Tray and rest on Barrel Nuts**

THIS LINE IS 9" (22.9cm) LONG
USE IT TO MEASURE
OUT YOUR CABLES

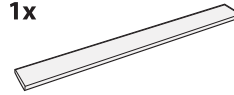You will need: (Not to Scale)

6 Port USB Hub
1x

Hook & Loop Straps
1x

Install 1 USB Hub into Tub

1 Plug in USB cables for robots into USB Hub

2 Bundle USB cables with Hook and Loop Straps, leaving 9" of cable free

3 Secure USB Hub to Hook and Loop strip in bottom of Tub

4 Feed USB Hub power cable out through hole on back of Tub

**THIS LINE IS 9" (22.9cm) LONG
USE IT TO MEASURE
OUT YOUR CABLES**

⭐ **6 USB Cables are shown below however you may require
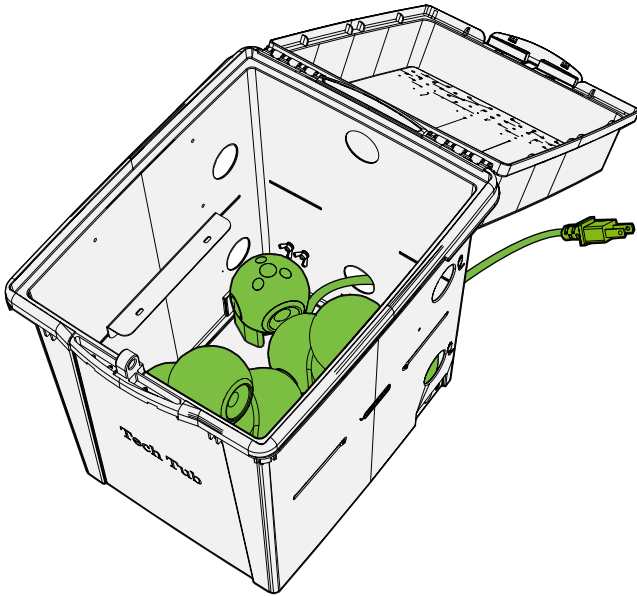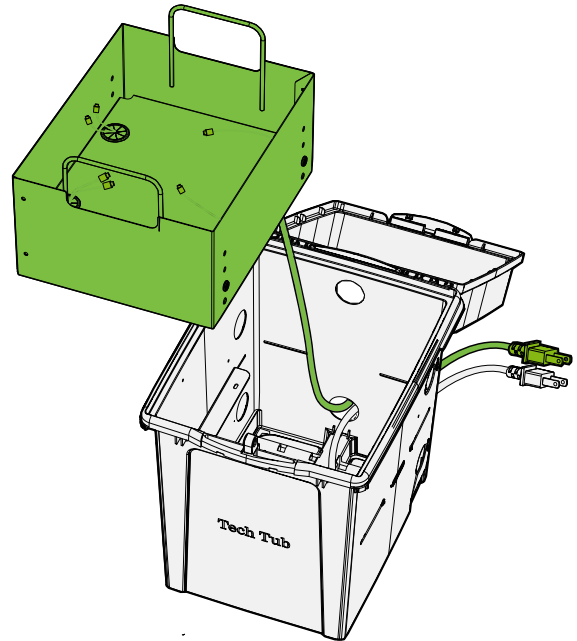less depending on how many robots you can fit in the Tray.**

10
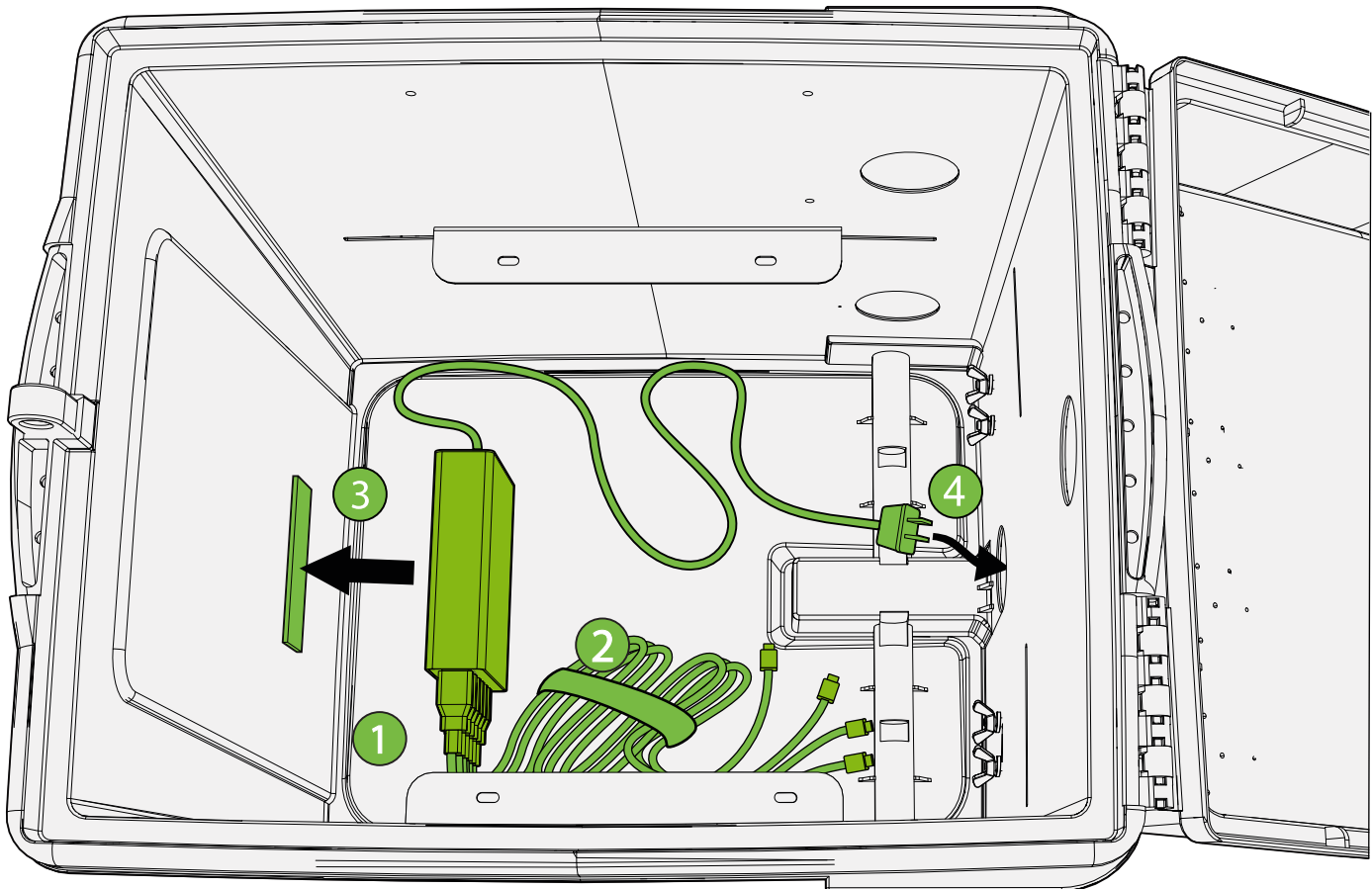
Option 2

Install Tray and Robots into Tub

1 **Place up to 6 robots in bottom of Tub and plug in USB cables**
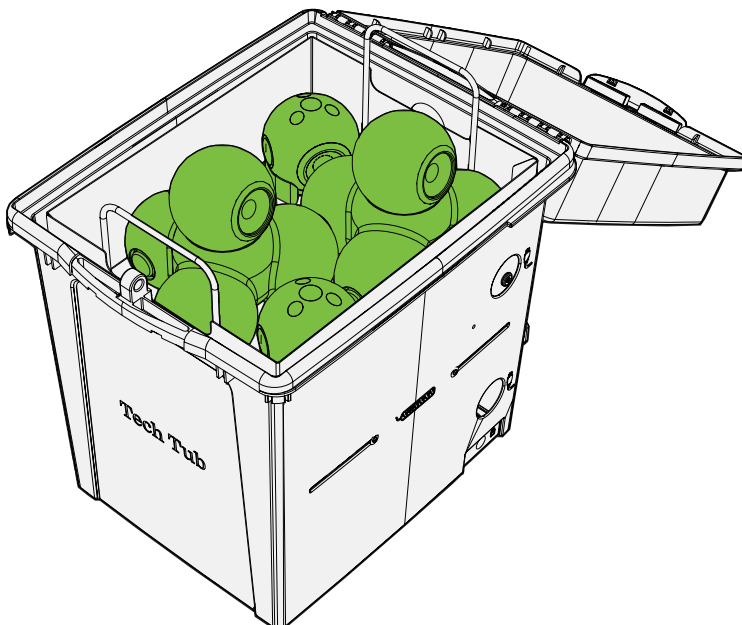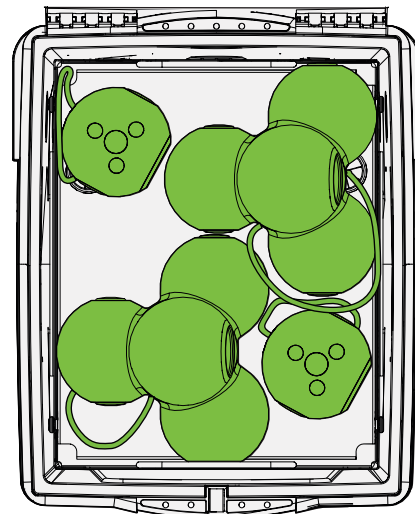

(2 Dash and 2 Dot shown in bottom of Tub)

2 **Feed second USB Hub power cable out through Hole on back of tub, place Tray in Tub**

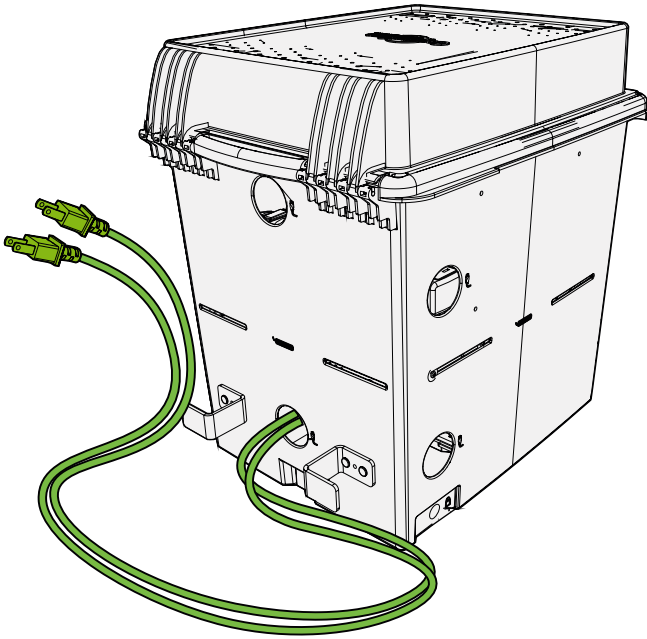**3** **Place up to 6 robots in Tray and plug in USB cables**
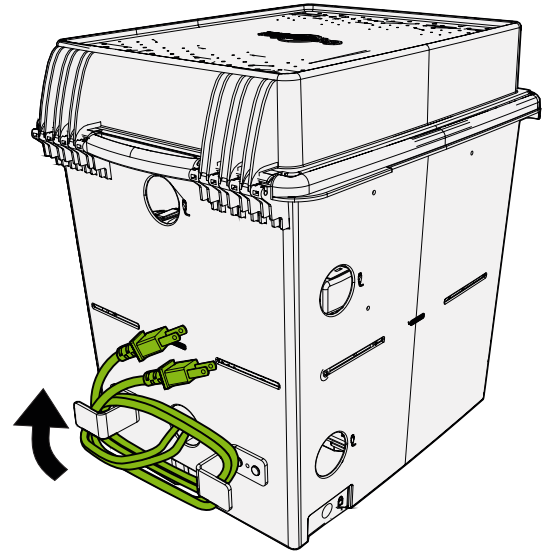

(2 Dash and 2 Dot shown in Tray)
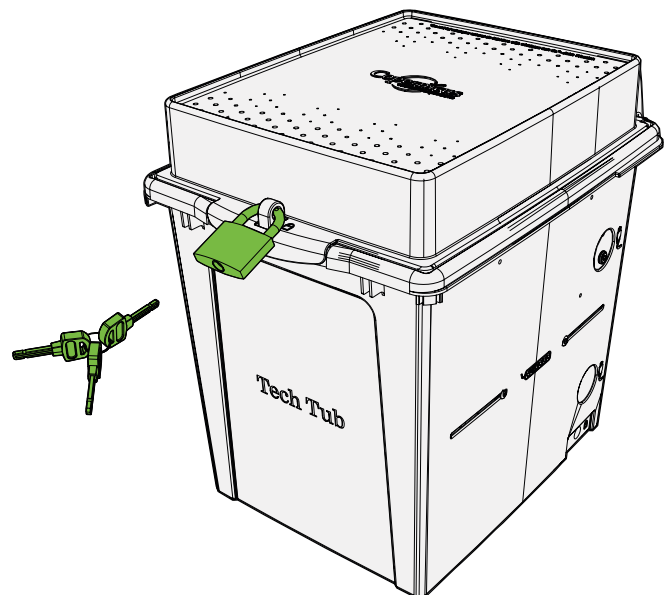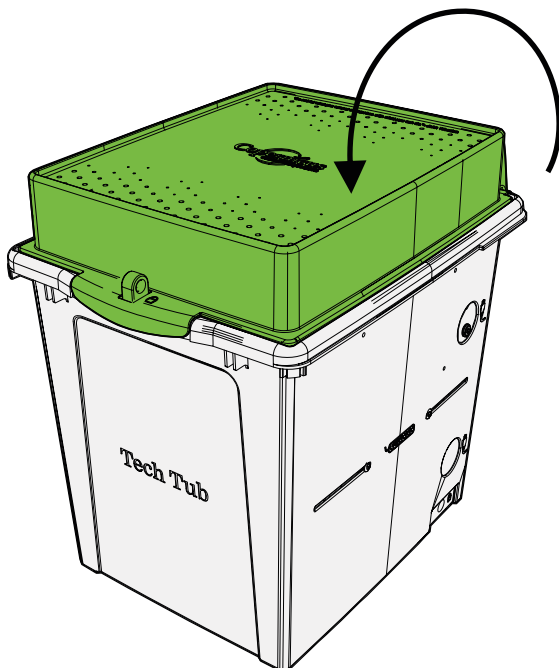
★ Tips for Use

Plug both power cables into wall outlets to ensure all robots are charging

Wind USB Hub power cables around cable hooks before moving Tub

Close Tub Lid and feed padlock through locking tab. Lock using provided keys

Tips for Use

Device Management

Keeping track of your robots can be made even easier by creating a sign-out program.
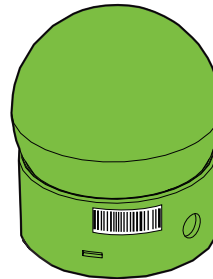
There are many automated software solutions available that make setting up and running a device check-out program very easy.

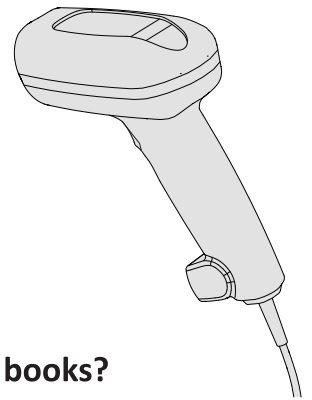Here is a list of some companies and their products:

ResourceMate ® *- www.resourcemate.com*

Neuton Data Systems - www.neuton.net

IntelliScanner - www.intelliscanner.com

Use a barcode and scanner for identifying your devices.

Does your school already use an automated system to keep track of books? You could use this system to also keep track of your devices!

Carrying your Robotics Tub
Use the Handles along the sides of the Tub for easy lifting and carrying.

Handle

Handle

Handle

Handle