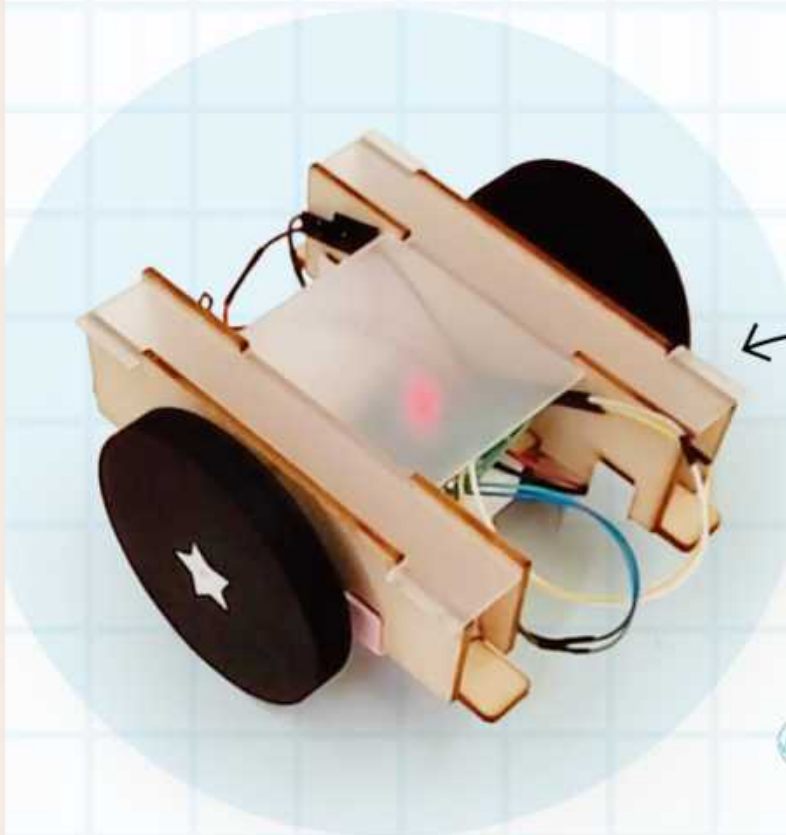
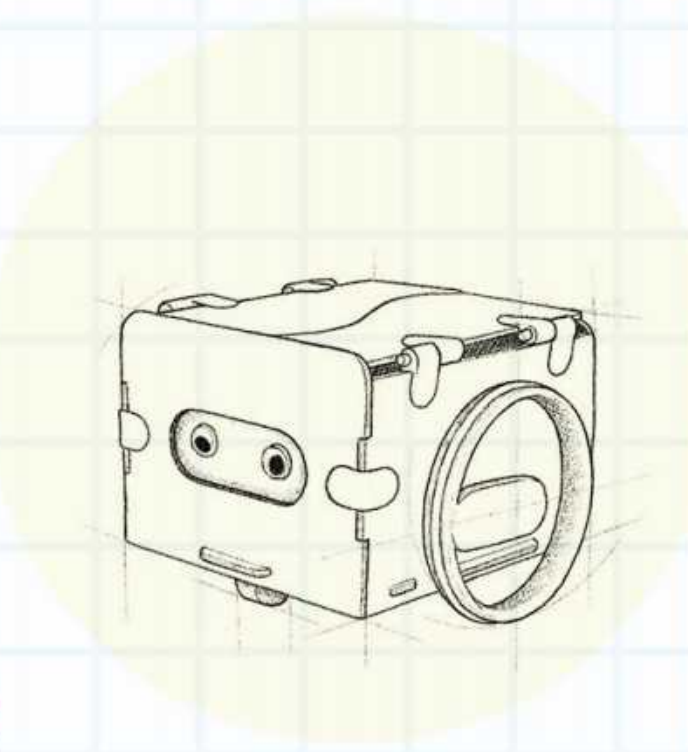


Inside the Innovation Factory

Behind the Design



Our product designers tried out lots of ideas to create the **perfect bot**. One prototype had a body that would seesaw all over the place and drag on the floor. While that didn't make a good delivery vehicle, the tipping and tottering was pretty cute — so we built the final bot with a lower **center of gravity** and a second set of wheels that kept a bit of the totter but didn't slow the roll.



Want more?
Check out **KiwiCo.com**

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Keep the instruction sheet since it contains important information.

Connect with us!

#KiwiCo

⚠ WARNING
CHOKING HAZARD — Small parts. Not for children under 3 years. Only for use by children aged 9 years and older. Keep the instruction sheet since it contains important information. Do not mix old and new batteries. Do not mix alkaline, standard (carbon-zinc), or rechargeable batteries.

Robotics Engineering

Delivery Bot



Welcome, Builder!

Build

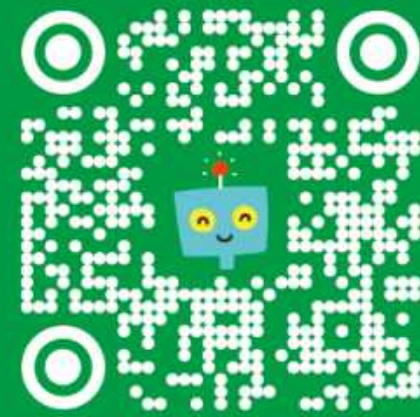
Part A: Build the body	2
Part B: Wire it up	19
Part C: Customize your bot	29
Part D: Make the controller	30

Put it all together 40

Troubleshooting 42

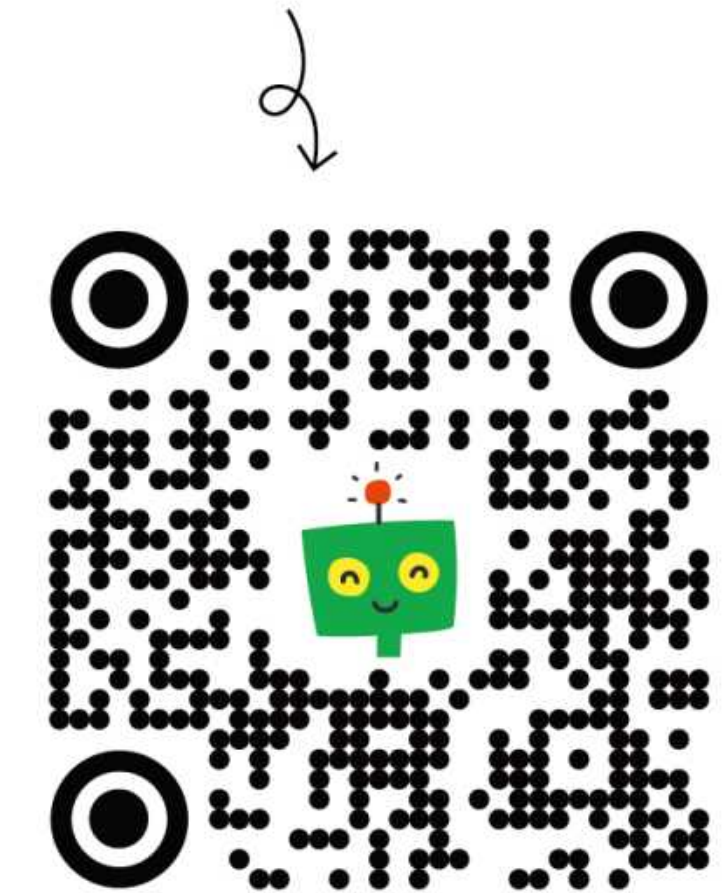


Build with us at
kiwico.com/deliverybot
or scan this code!



Can we stump a delivery bot?

See what happens at kiwico.com/deliverybot



Connect with us & watch us
take on some **MEGA challenges!**



/kiwico



@kiwico_inc



@kiwico_inc



/kiwico



Breaking an elephant toothpaste
world record



Epic egg drop challenge
from a drone

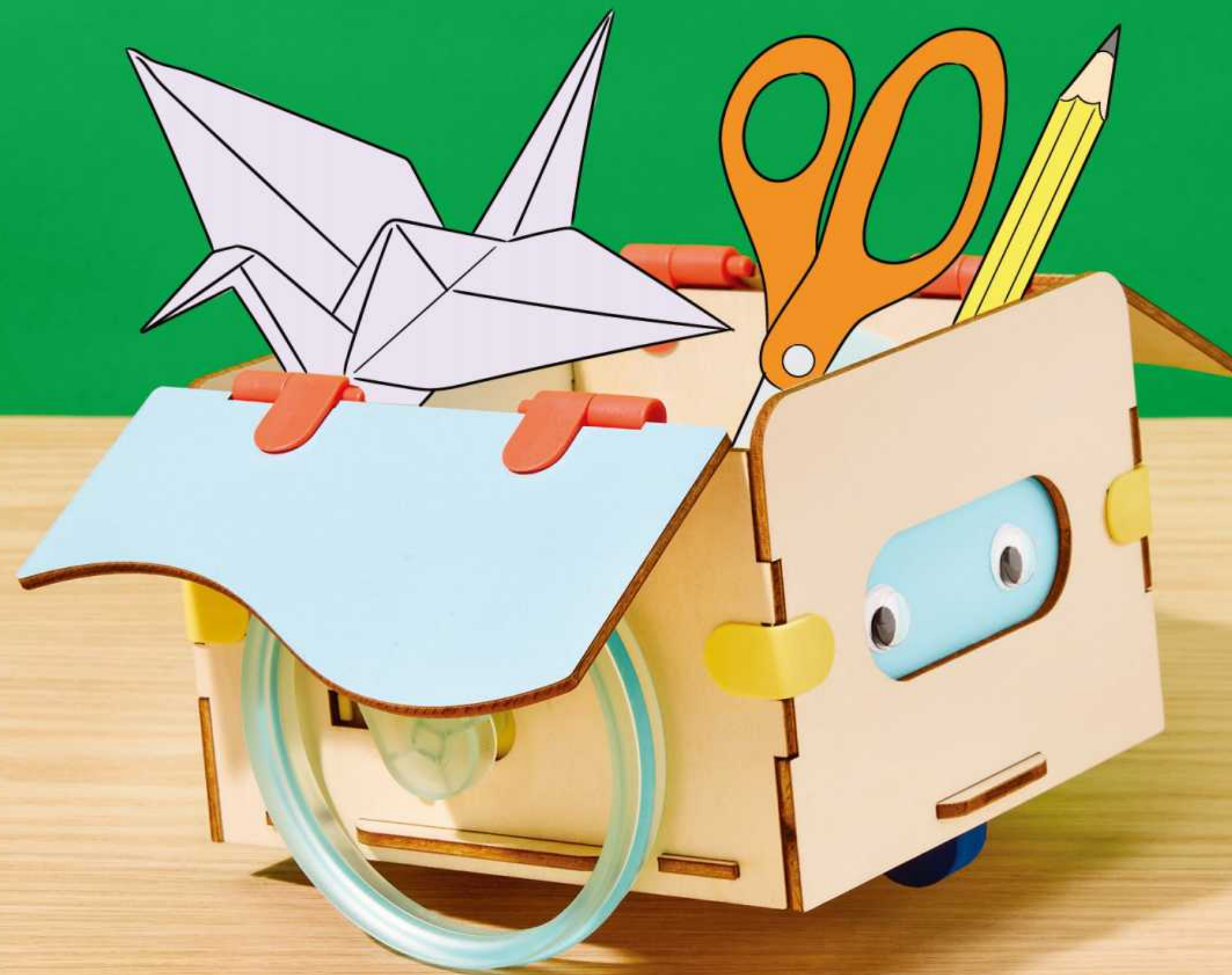


We made a
giant pumpkin launcher

delivery robot by Vickie Flores / Alamy Stock Photo

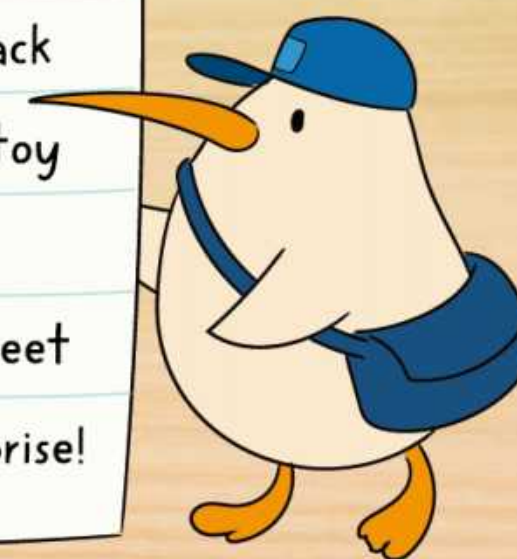


What will you deliver?^{ZZZ}

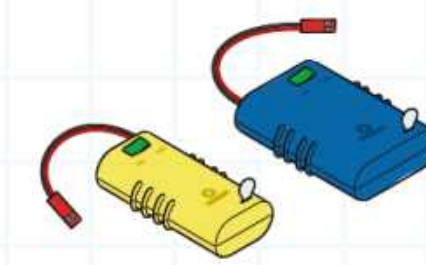


Delivery List

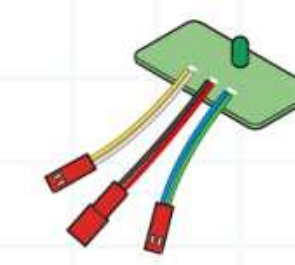
- ☐ secret note
- ☐ special snack
- ☐ favorite toy
- ☐ pet treat
- ☐ sticker sheet
- ☐ super surprise!



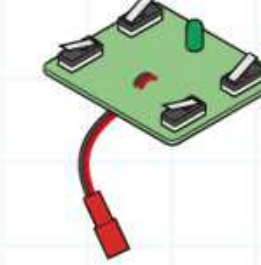
What you get



battery packs



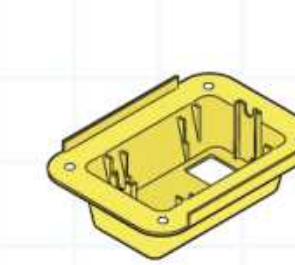
receiver



transmitter



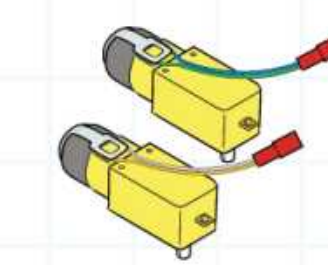
large wheels



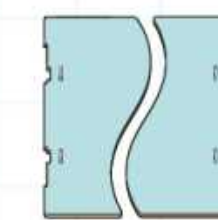
controller base



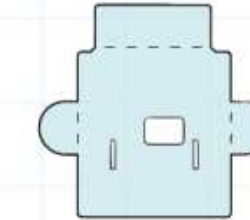
buttons



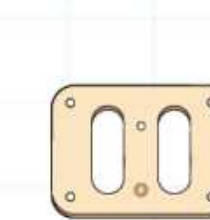
motors



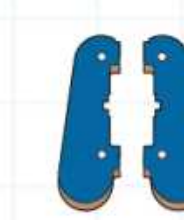
lid pieces



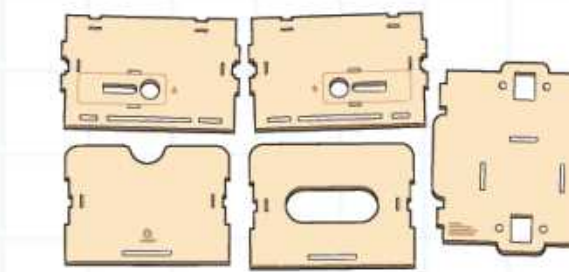
cover



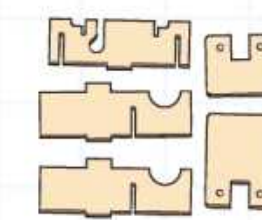
controller top



handles



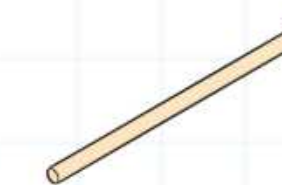
body pieces



dividers



O-rings



dowel



rods



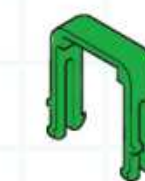
roller wheels



corner clips



rod clips



motor clips



nuts



hinge clips



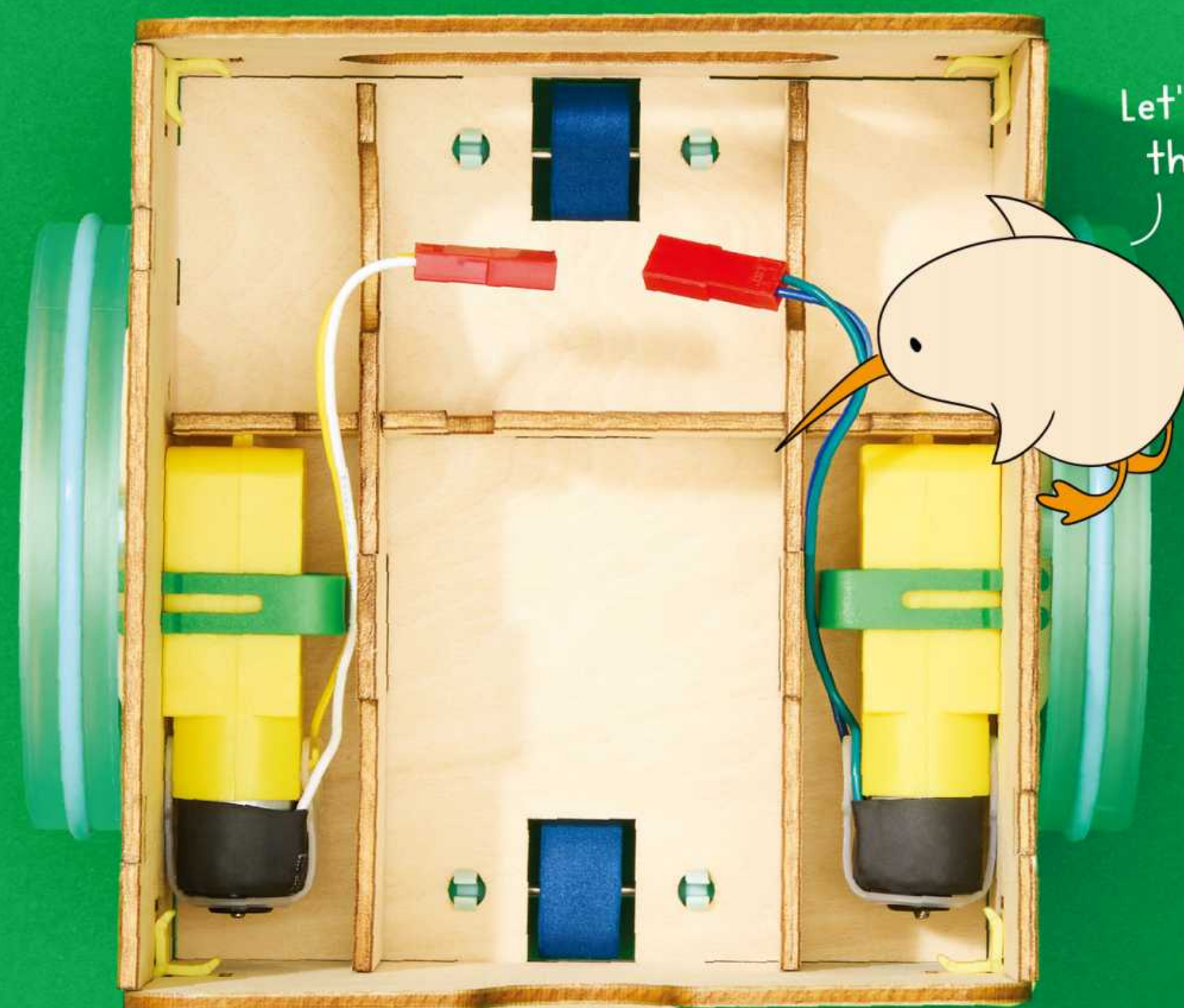
bolts



wiggle eyes

Part A

Build the body ^{M3}

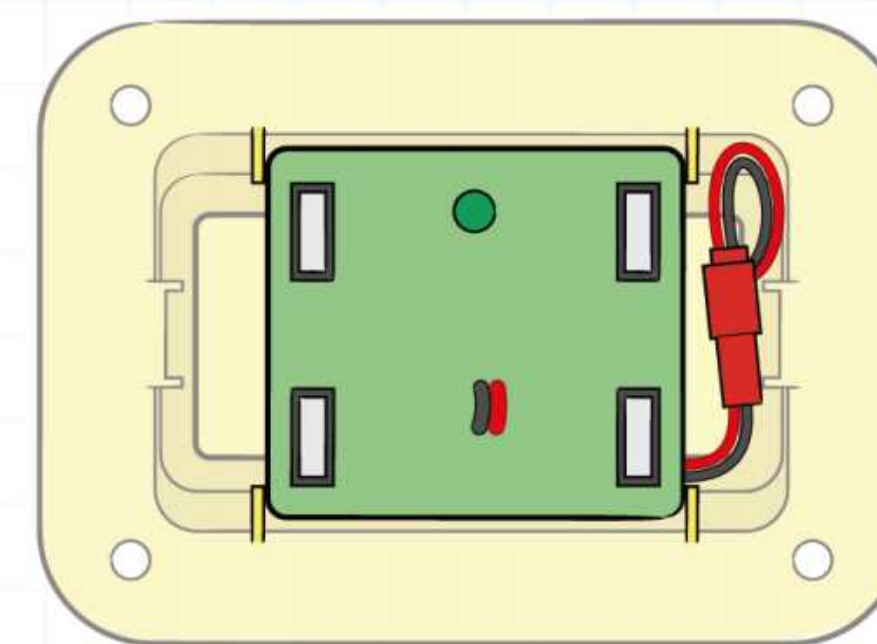


Let's get *rolling* on this robot build!

If the bot moves by itself . . .

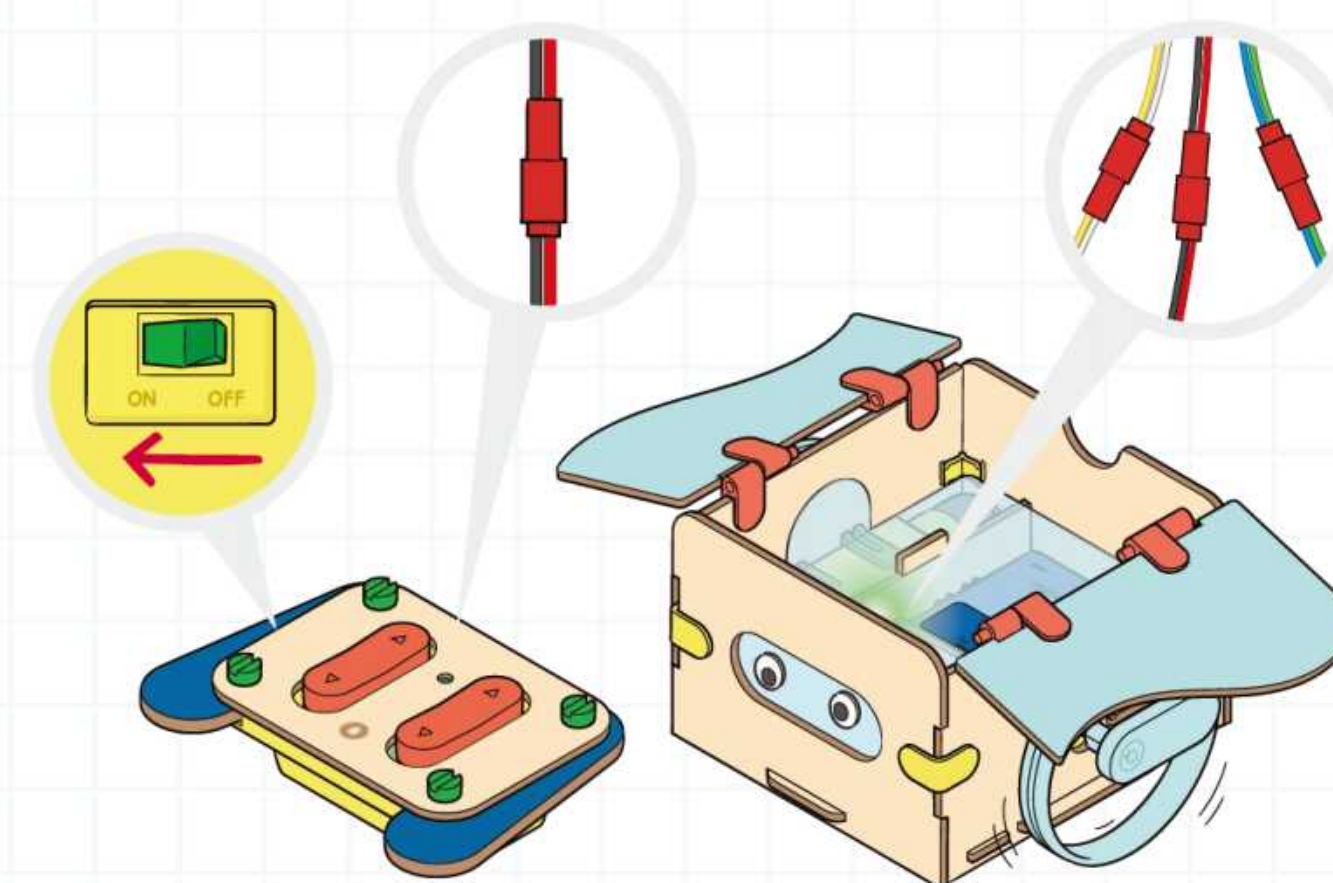
go back to **Page 33** and open up the controller. Check that the wires and switch aren't crossing the yellow ribs.

TOP VIEW



If the light in the bot turns on but one or both wheels don't move . . .

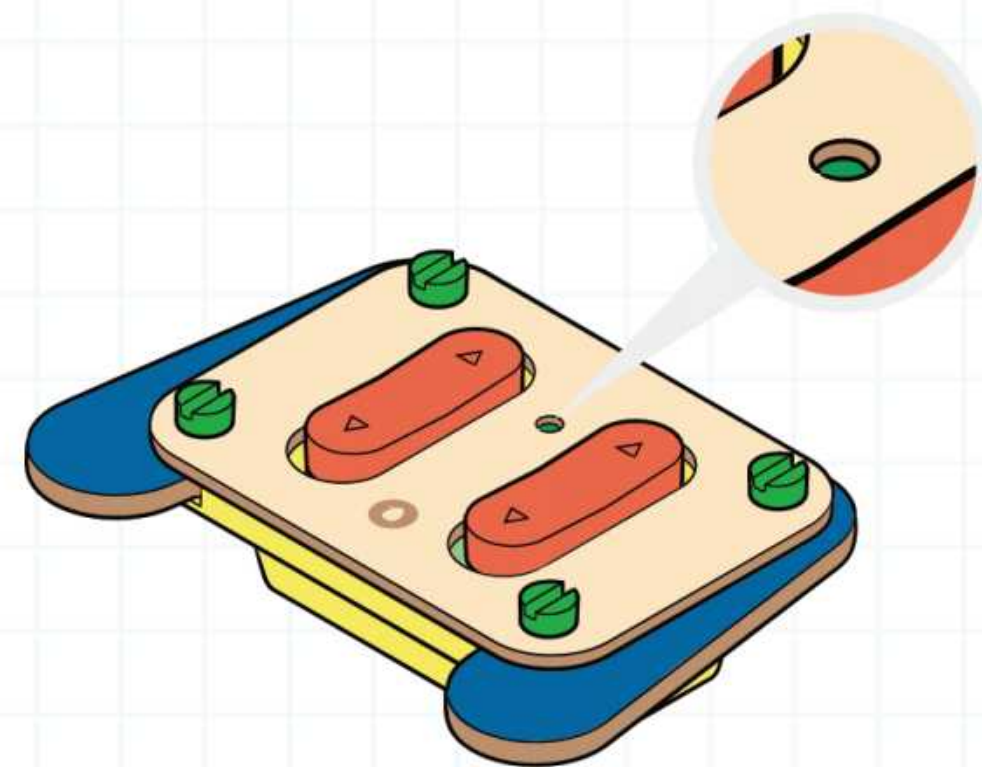
1. Make sure the controller is also turned on.
2. Make sure the wires in both the controller and bot are pushed together all the way.



Troubleshooting

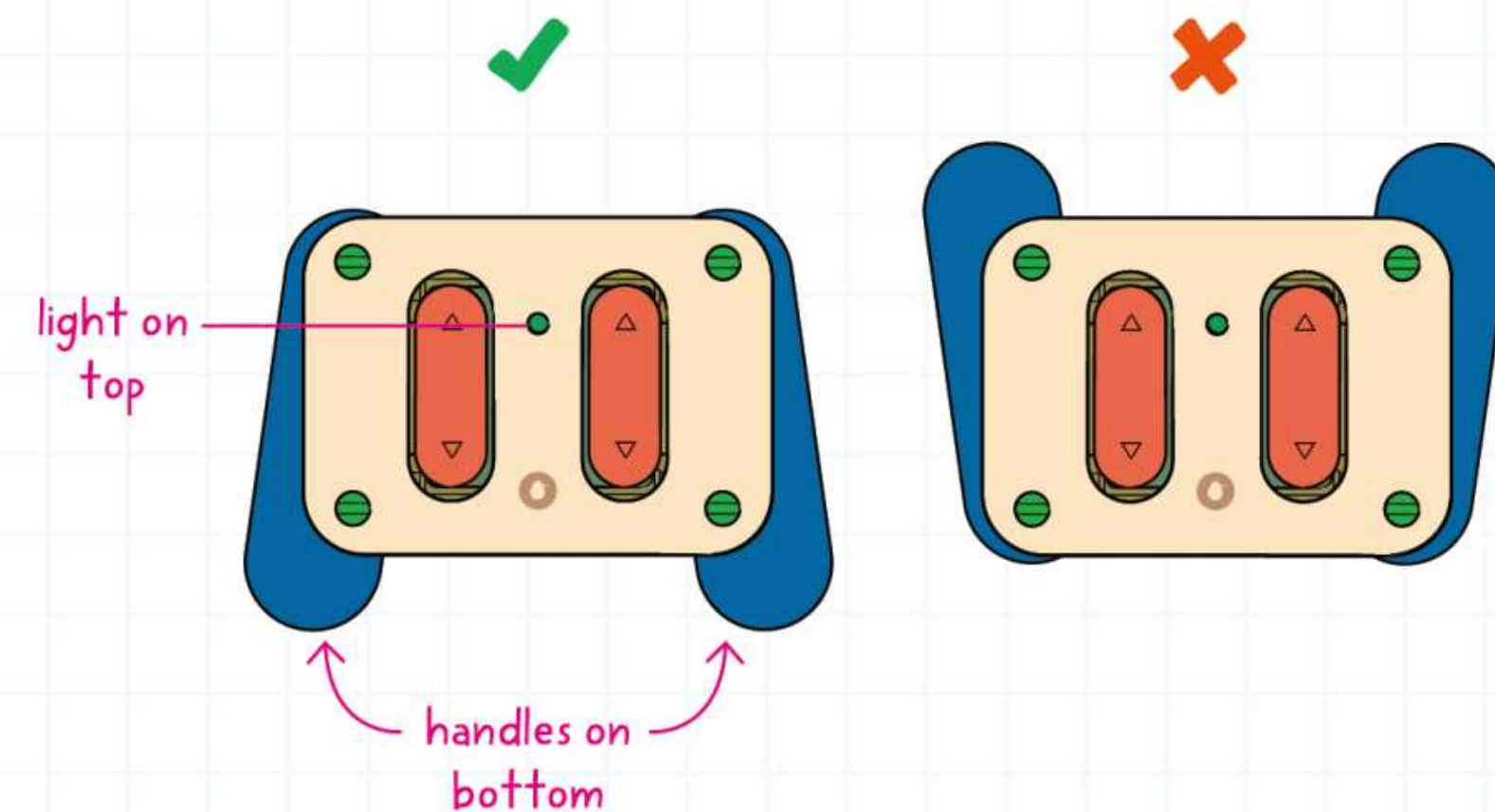
If you turn on the controller and the green light doesn't blink . . .

it might already be connected to the bot. If the light doesn't turn green when you press a controller button, go back to **Part D, Steps 1–3**.

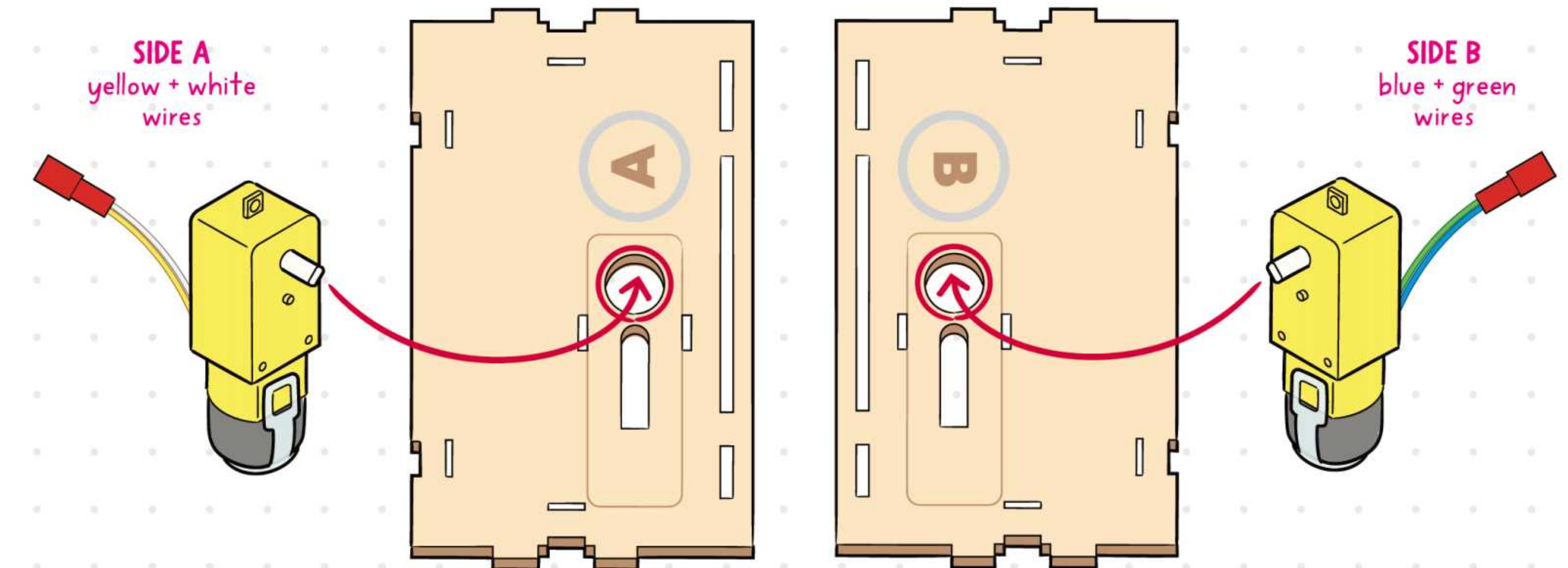
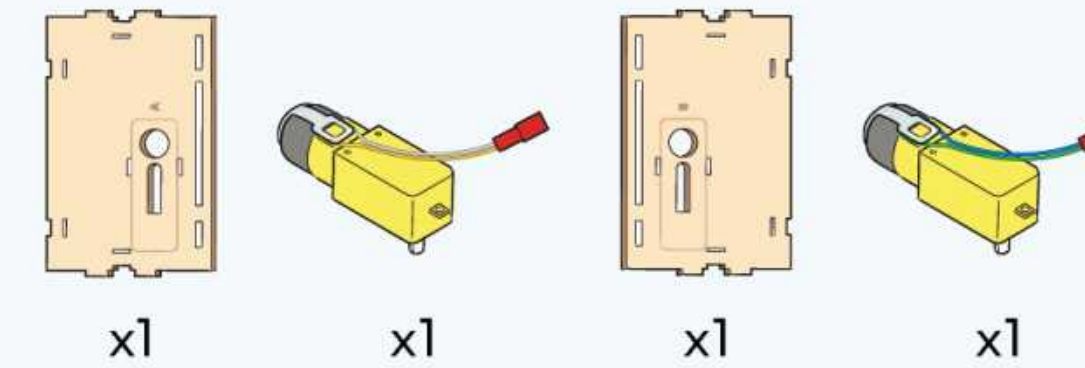


If the left and right controller buttons aren't controlling the correct wheels . . .

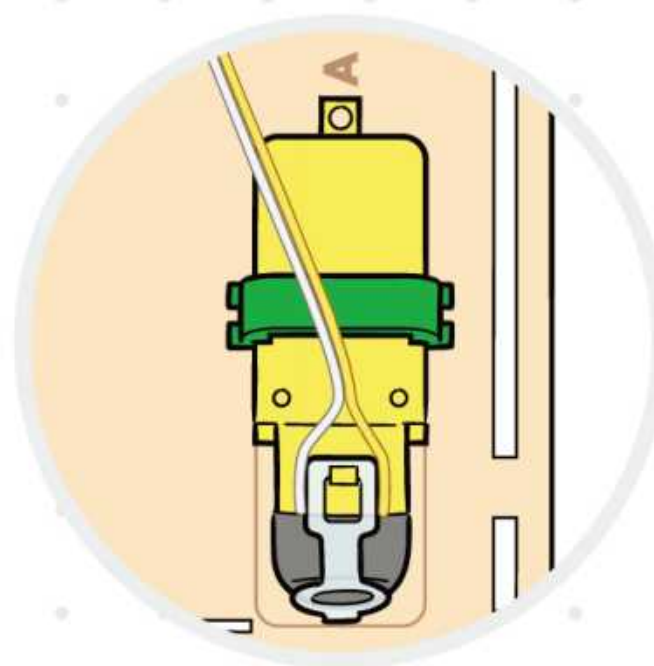
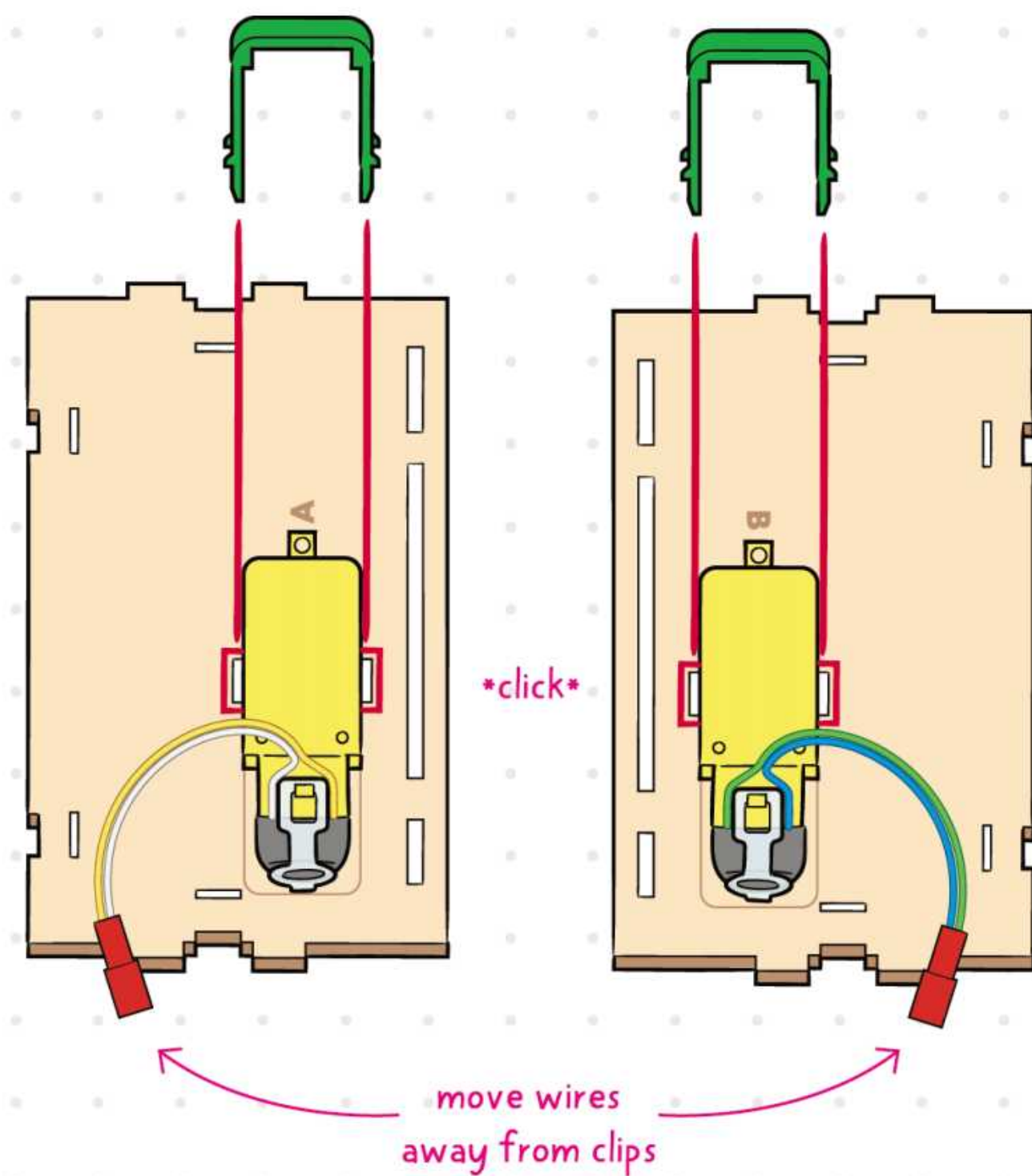
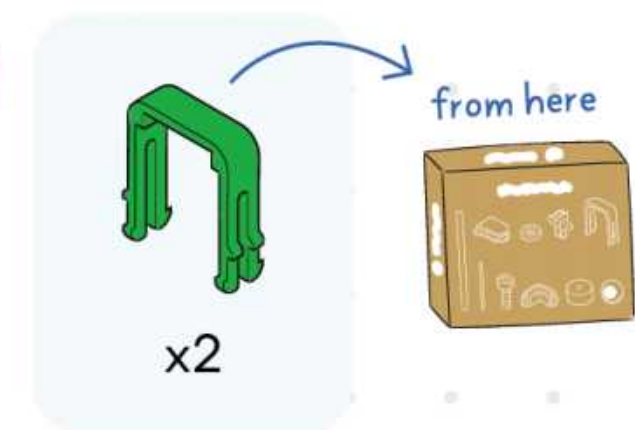
the handles on the controller might be backward.



1



2



Hello,
come in, bot!

Copy that,
good buddy!

The controller's light
turns **off** when both
the controller and bot
are turned **on** — that
means the transmitter
and receiver are
connected!

Try this out!



What happens
if you press **one**
button **up** and **one**
button **down** at
the same time?

Can you make
your bot **turn**
a corner?

Pack your bot,
close it up, and
make a special
delivery!



caution!

Turn OFF electronics when unattended. Do not
leave on overnight. Do not use with liquids.

Put it all together

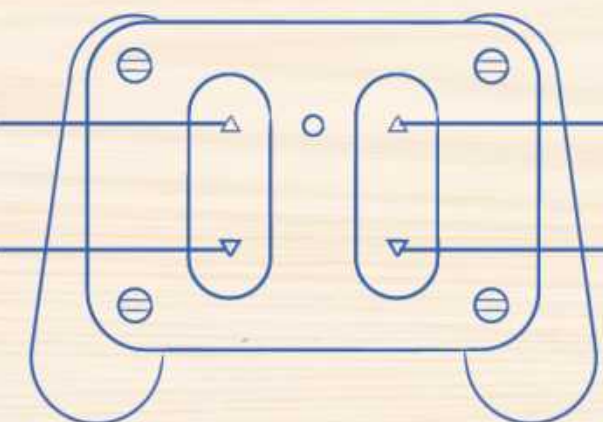
- 1 Switch the controller ON. The green light will blink.
- 2 Switch the bot ON. The light will turn on and the wheel will turn a little.
- 3 Drive your bot!

STEERING CONTROLS

LEFT (L)

(L) wheel goes forward

(L) wheel goes backward

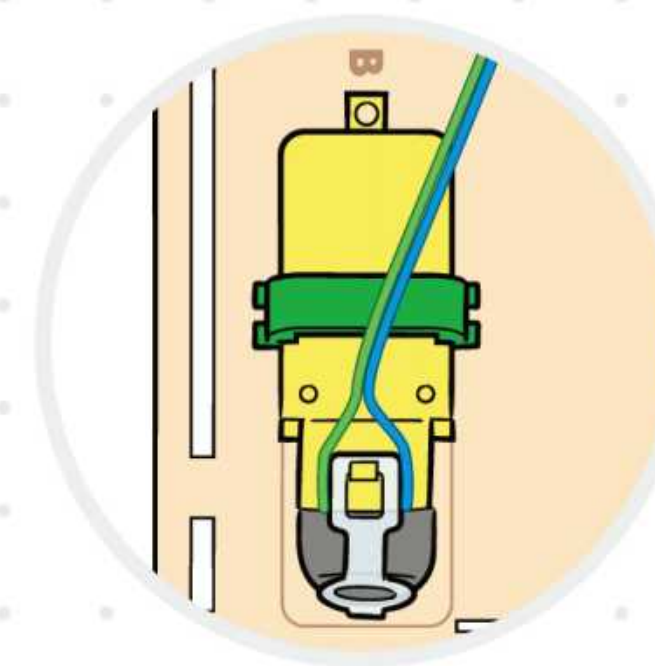


RIGHT (R)

(R) wheel goes forward

(R) wheel goes backward

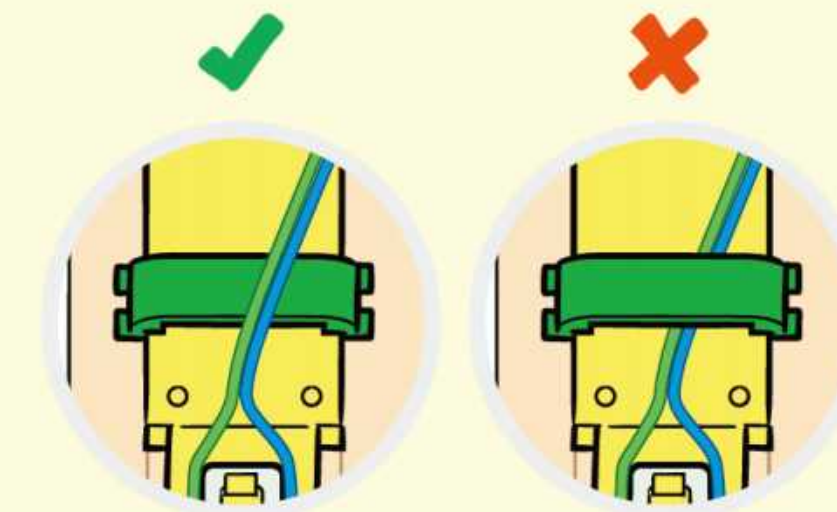
The blinking means it's looking for the receiver in the bot. (If you turn on the bot first, the controller won't blink.)



Stop & Check

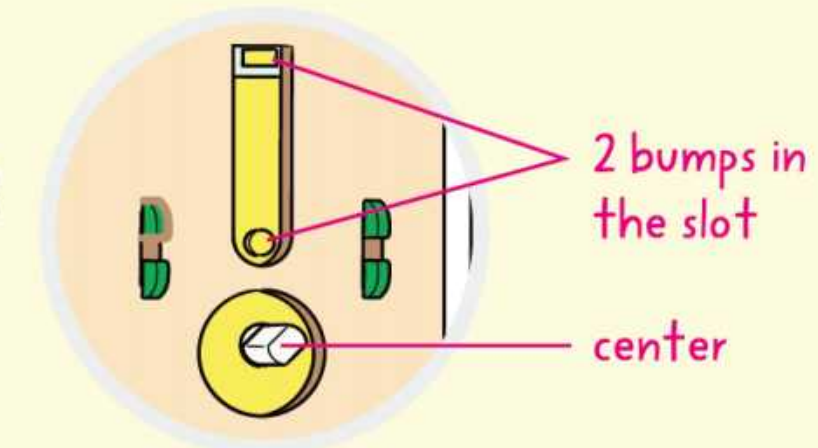
Take a look at your build and check that:

1. The wires are outside of the motor clips.

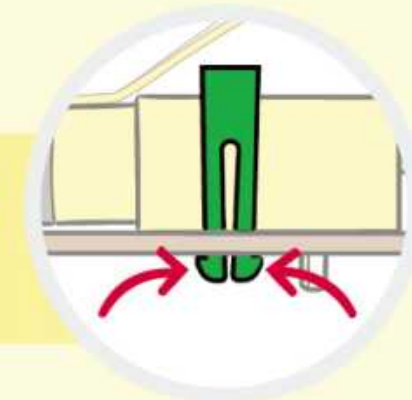


2. The motors lie flat.

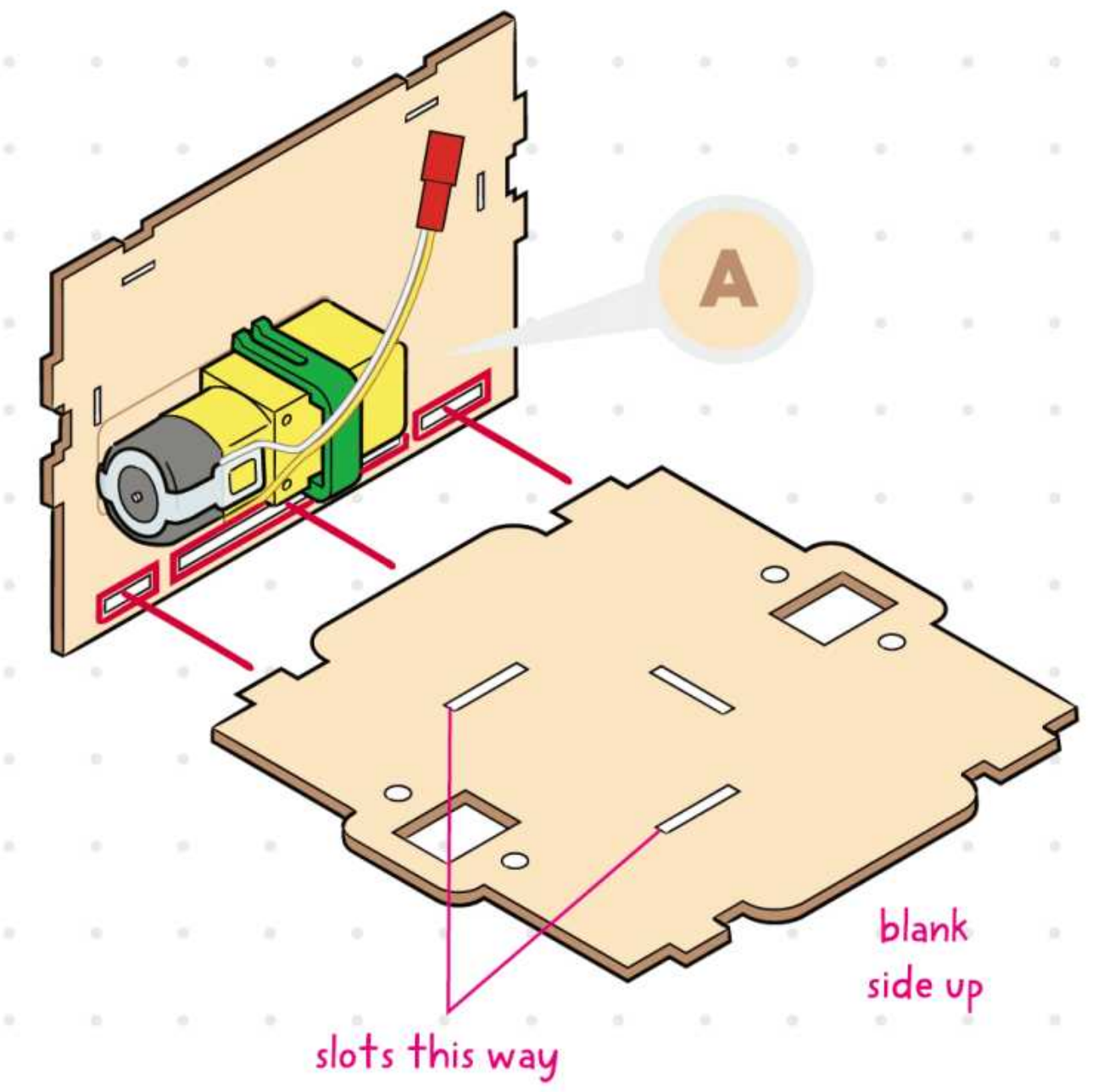
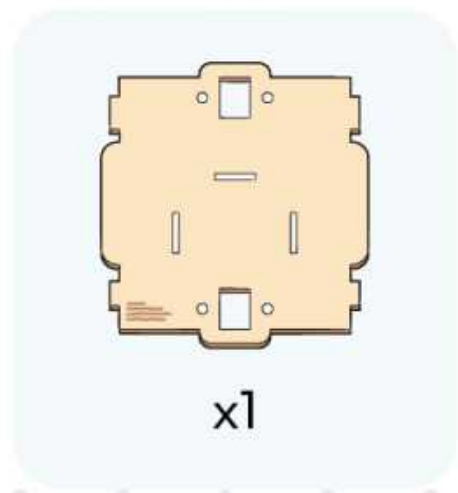
OTHER SIDE



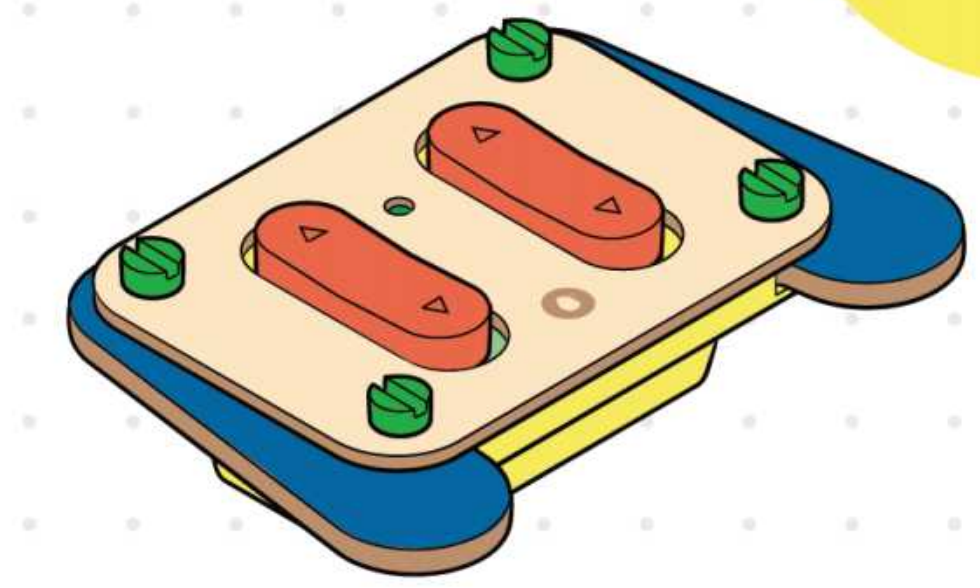
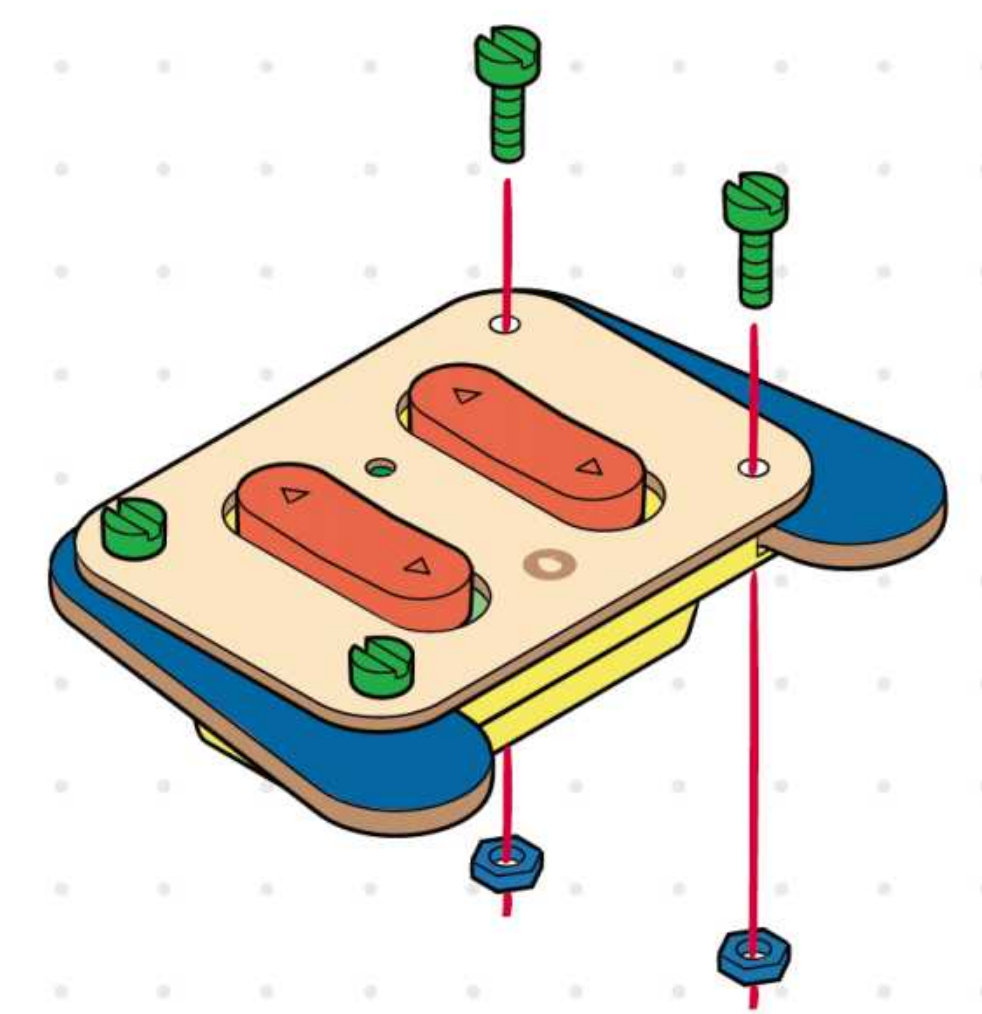
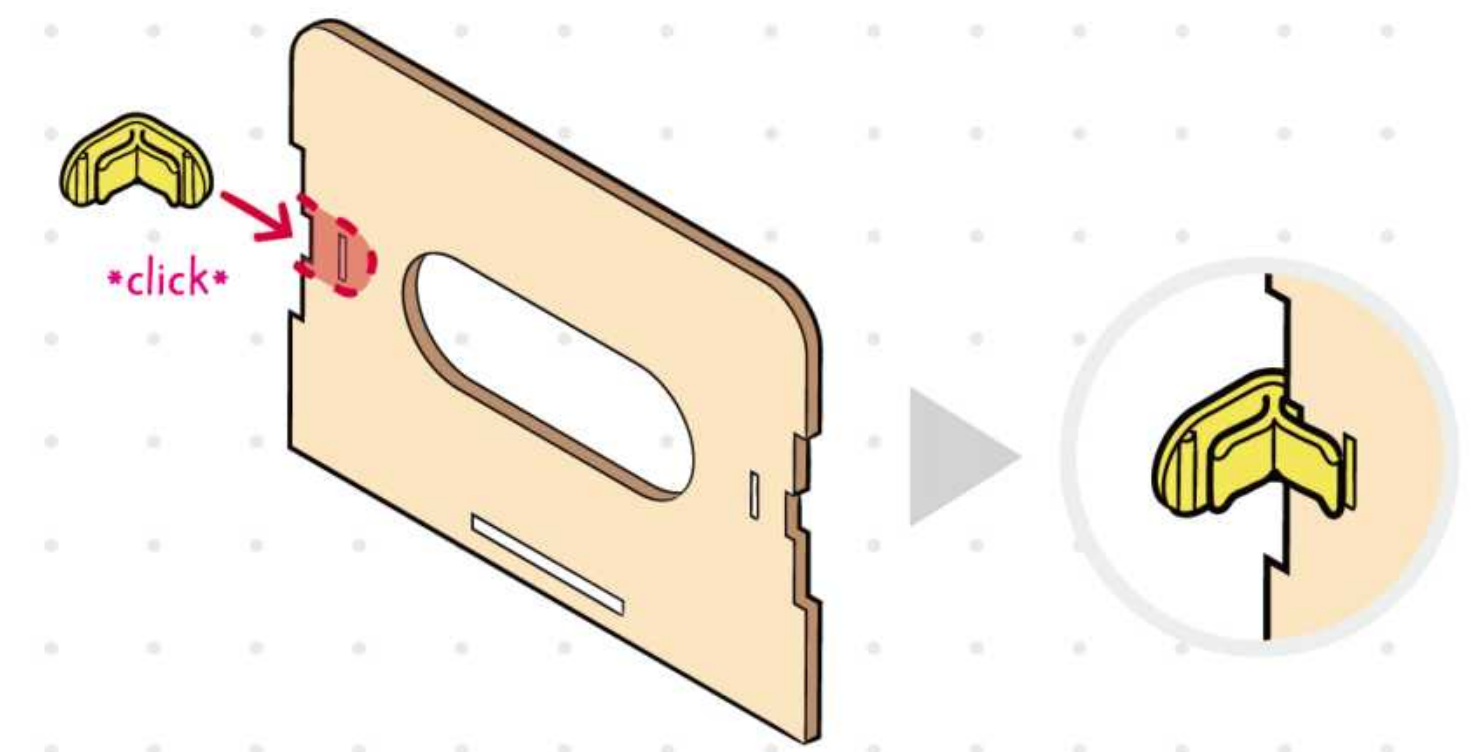
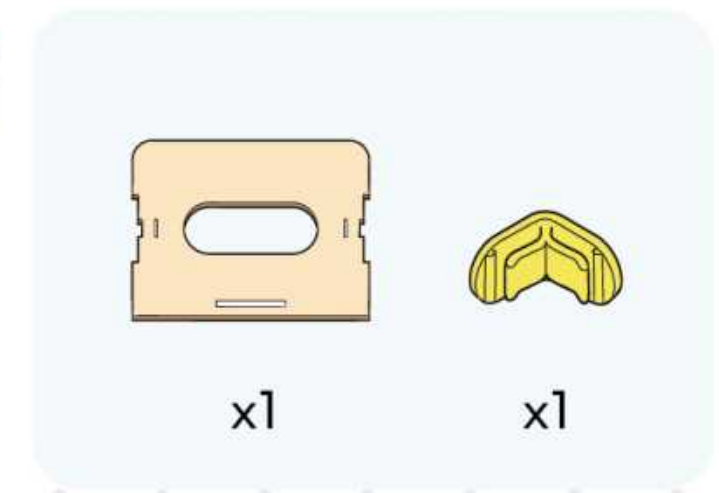
Need to remove the motor clips?
Just squeeze the ends.



3

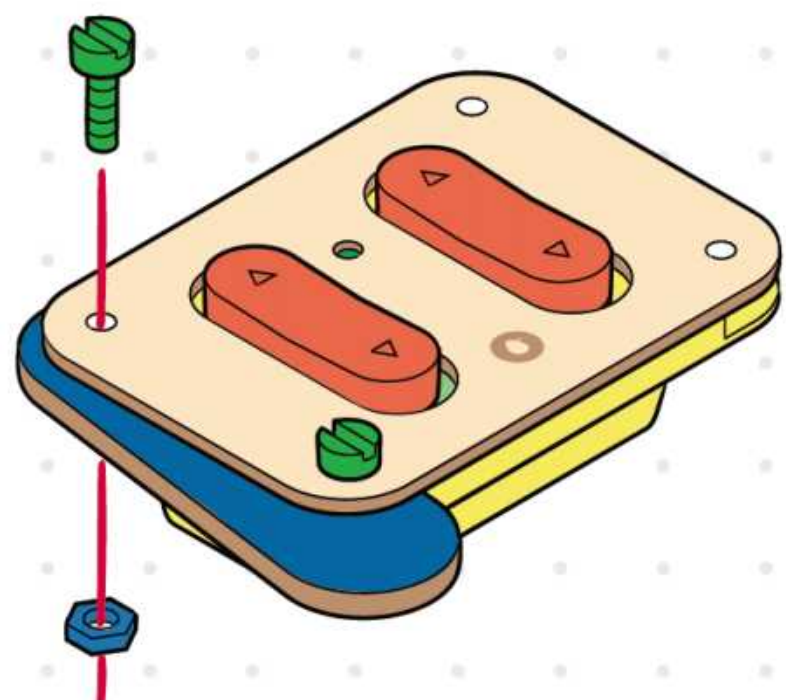
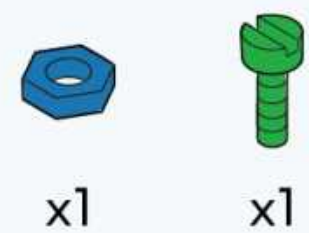


4

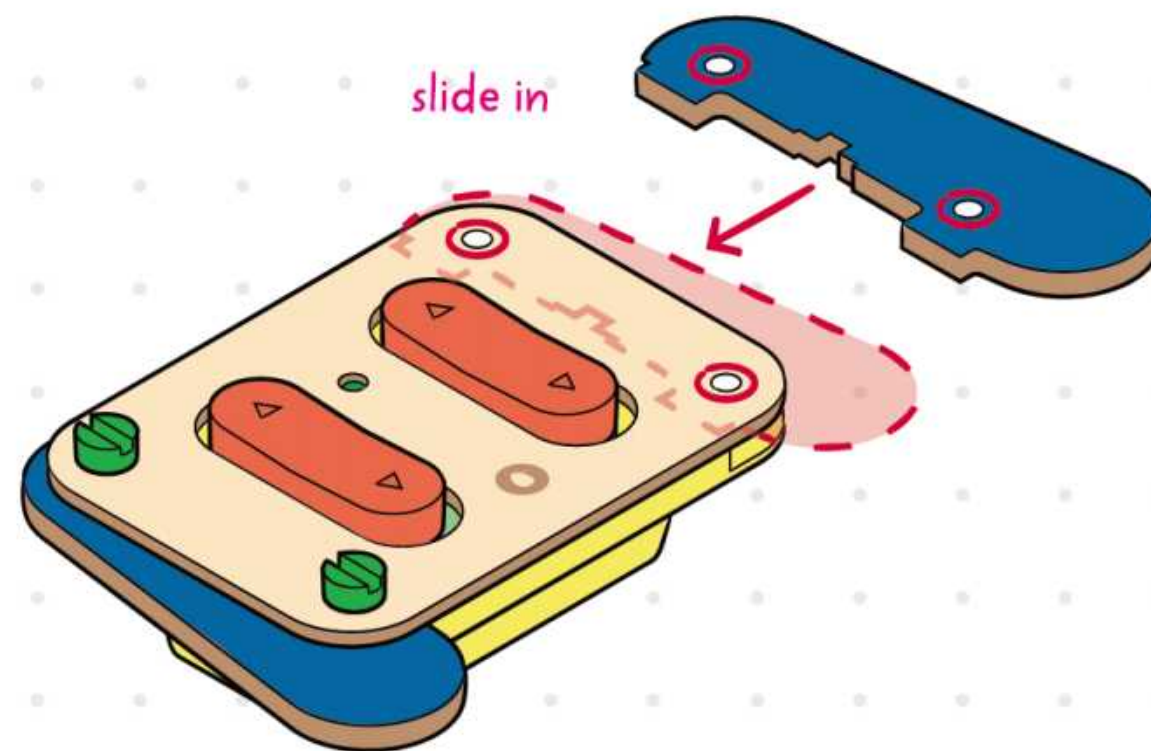
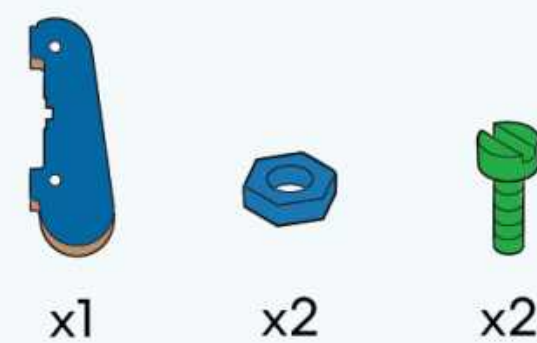


You built the
controller!

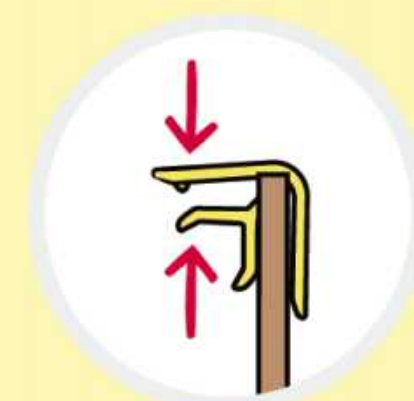
11



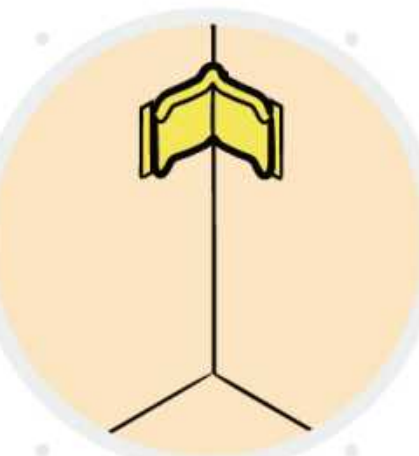
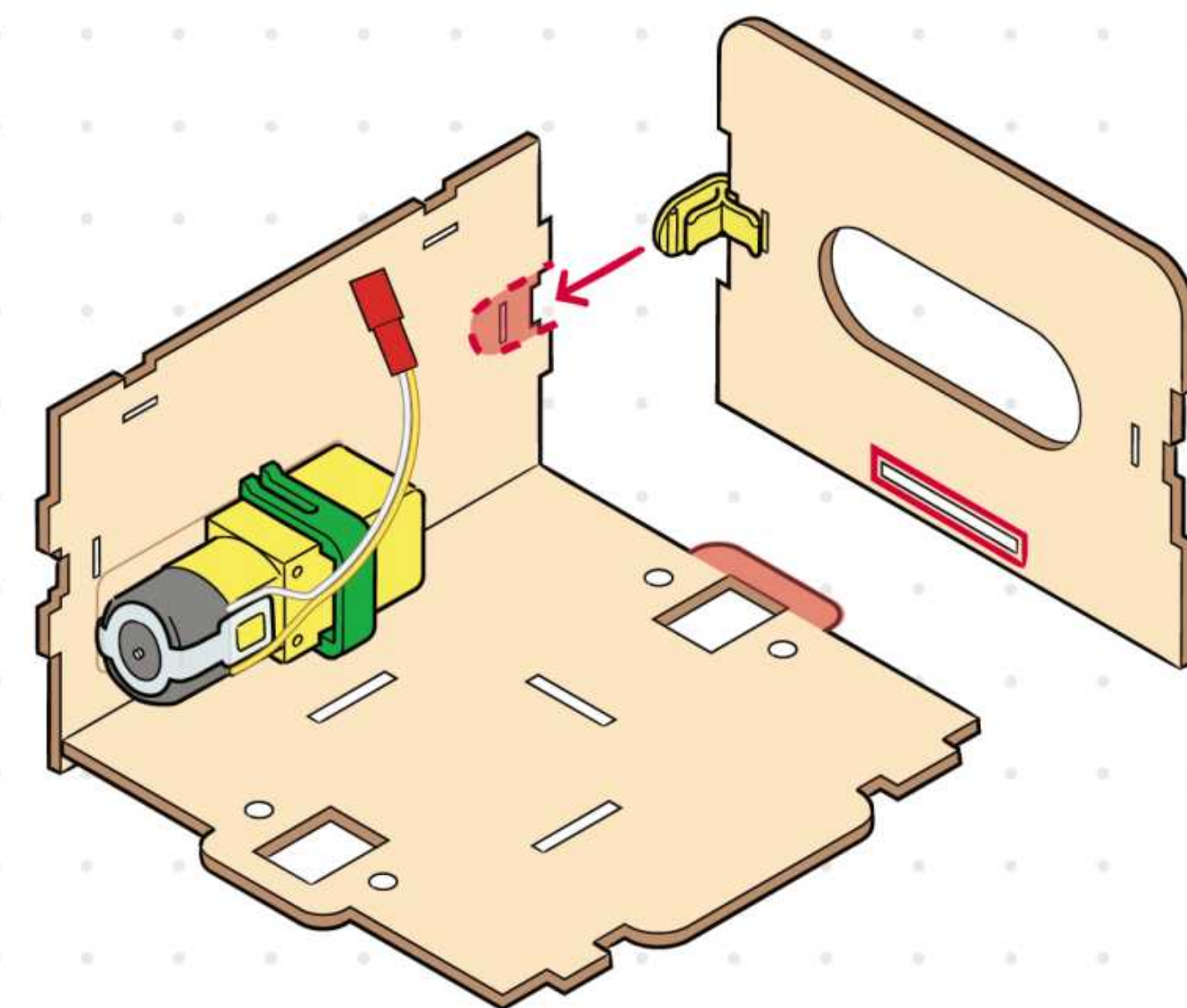
12



**Need to remove
a corner clip?** Just
squeeze the open
end to loosen it.



5

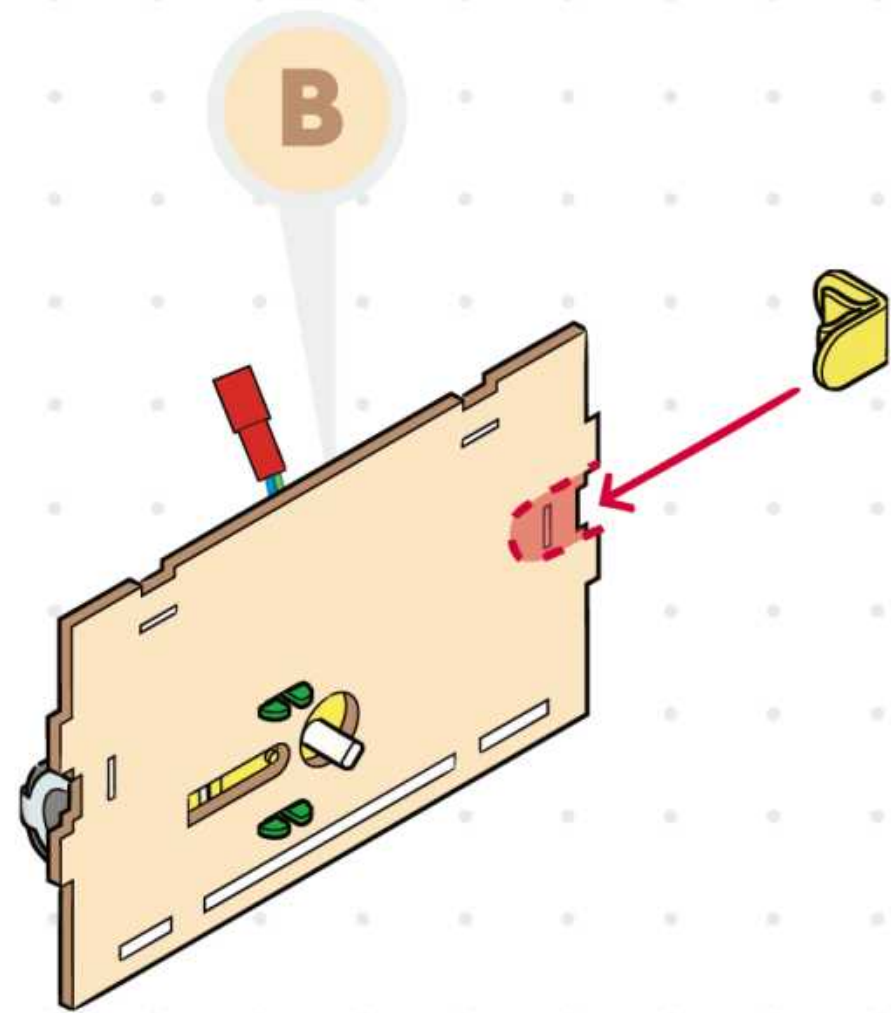


pieces fit snugly

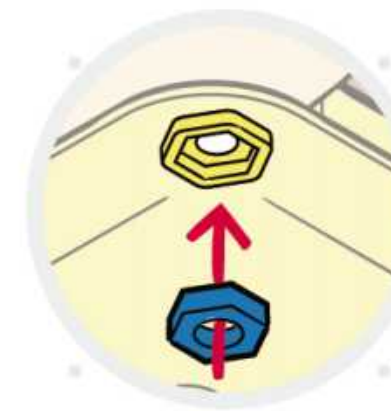
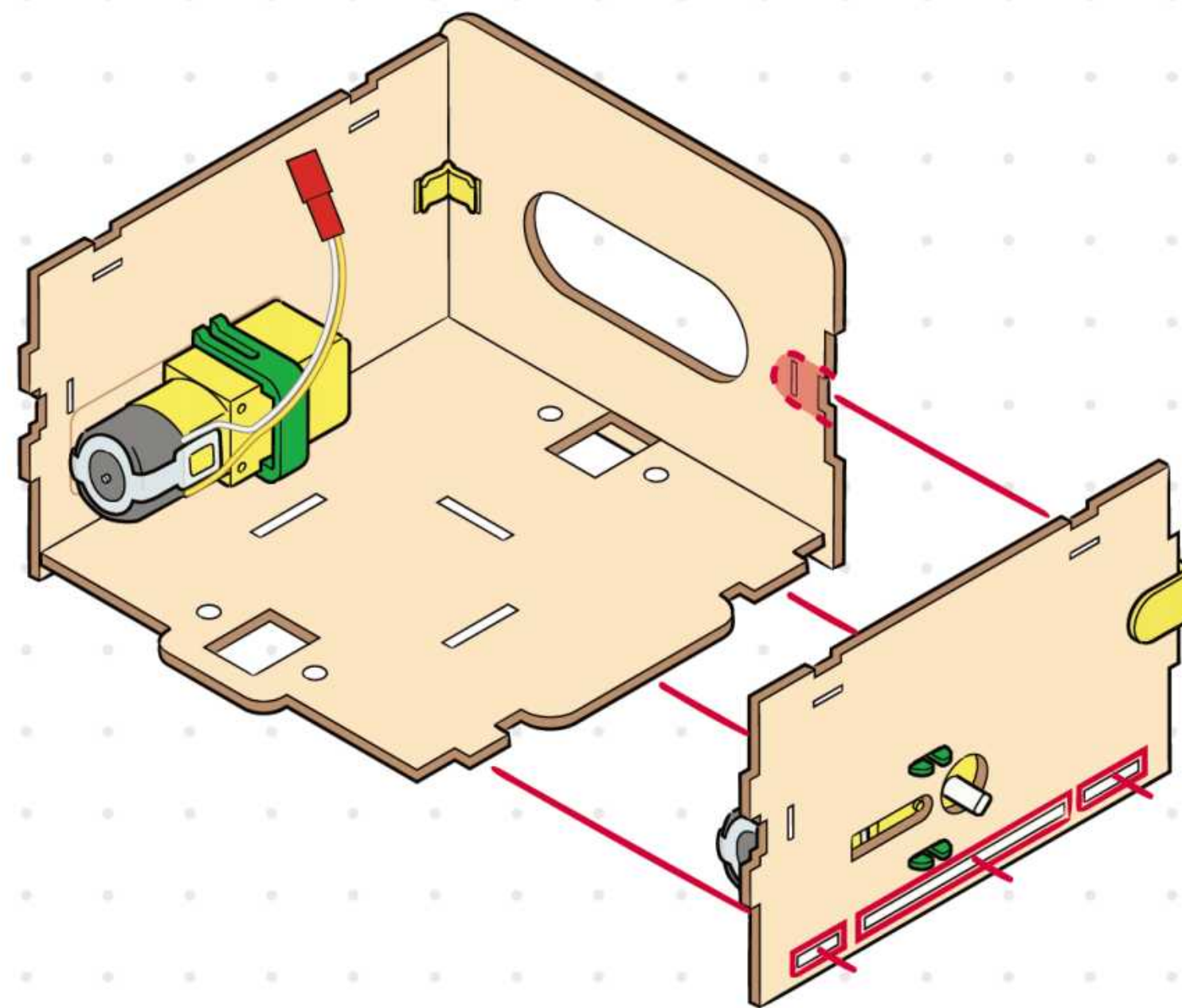
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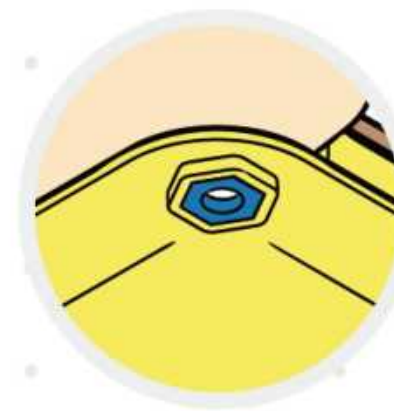
x1



7



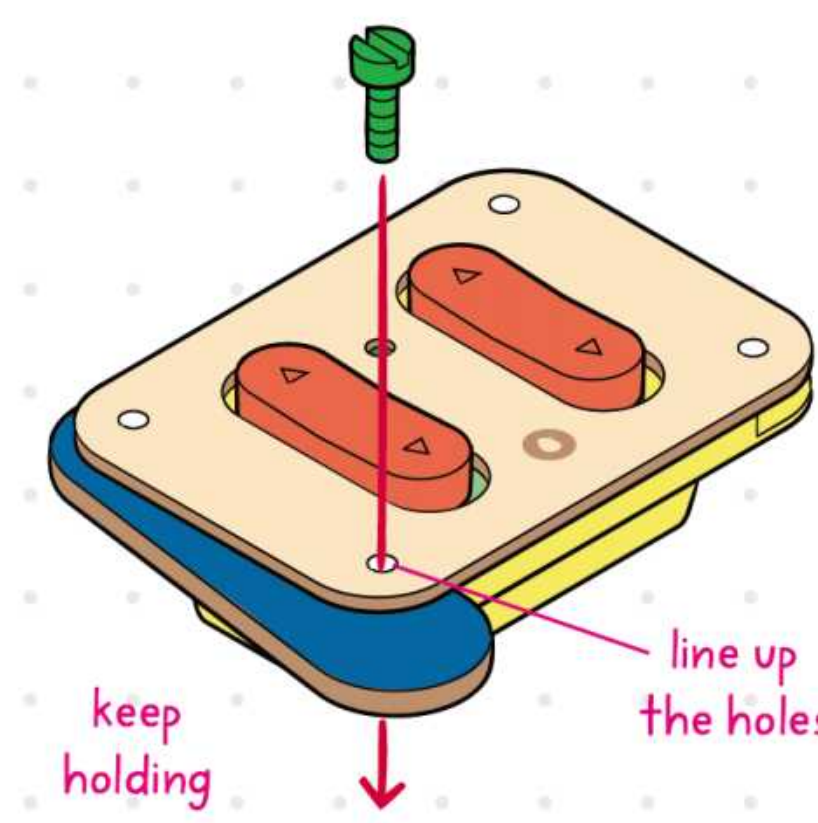
fit nut in
from below
and hold



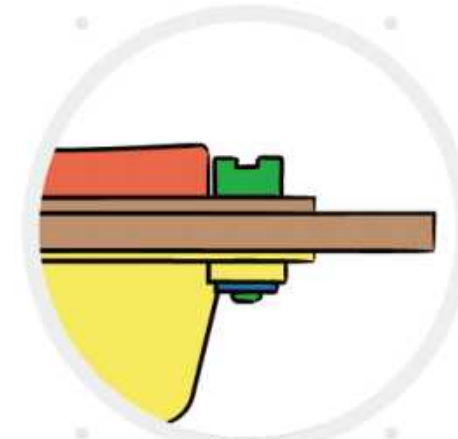
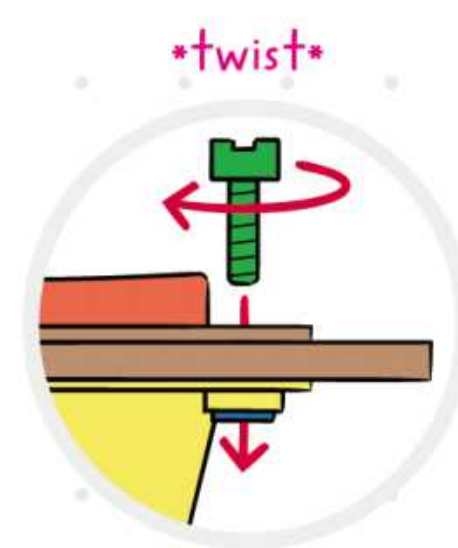
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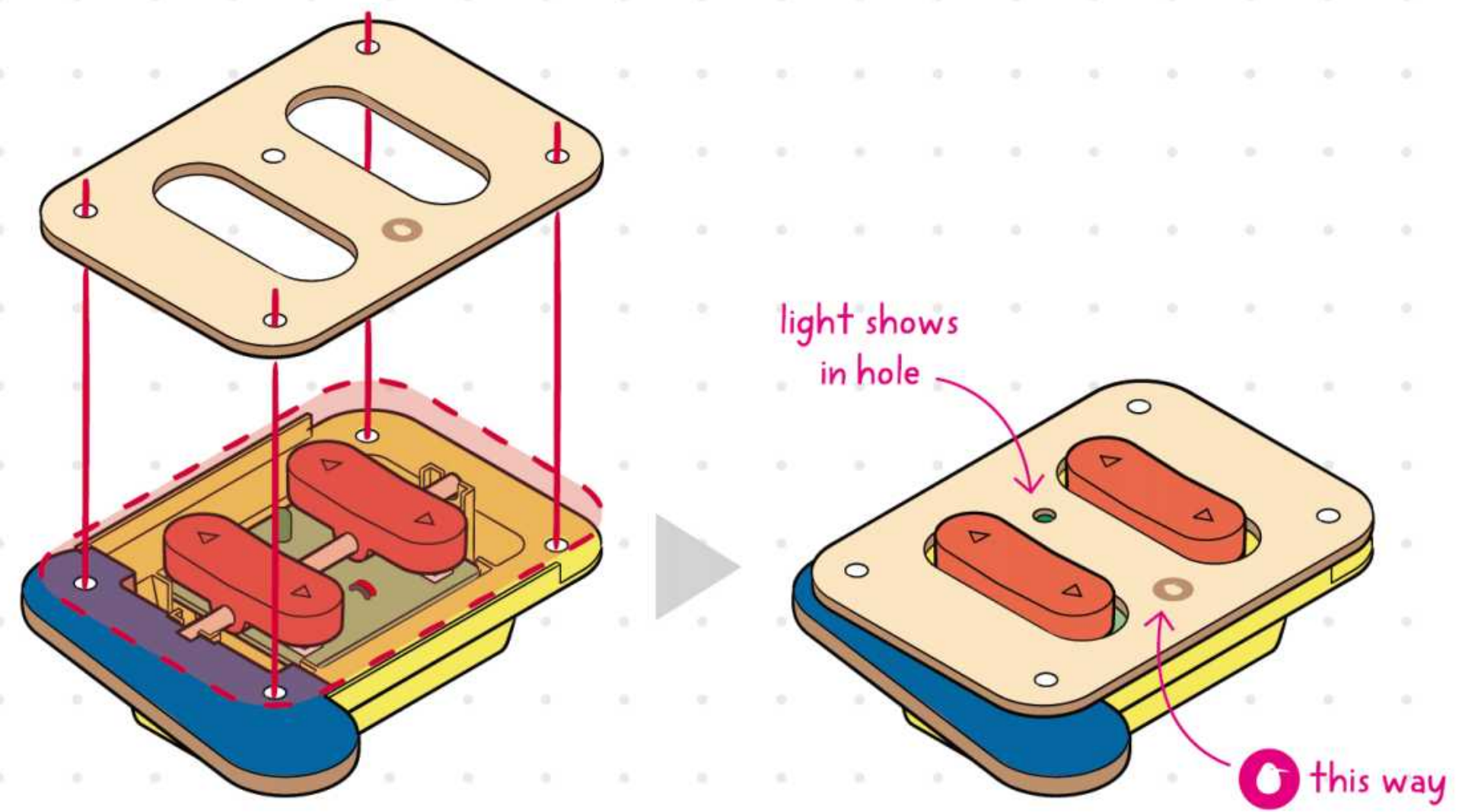
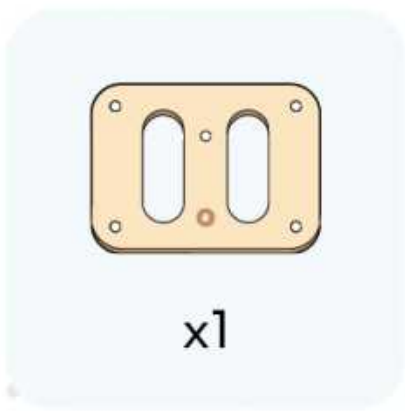
x1



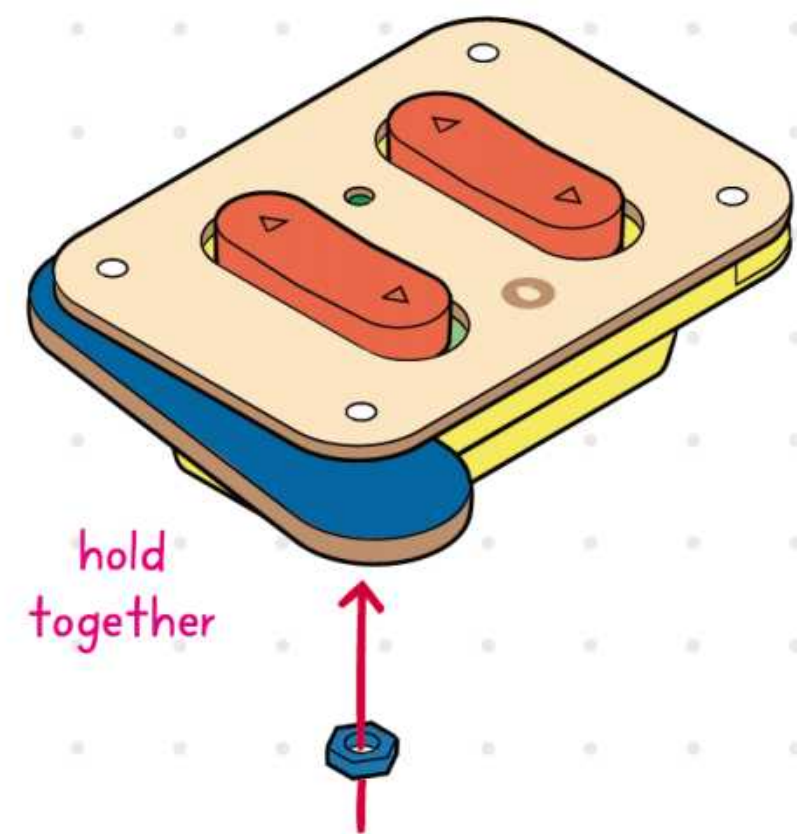
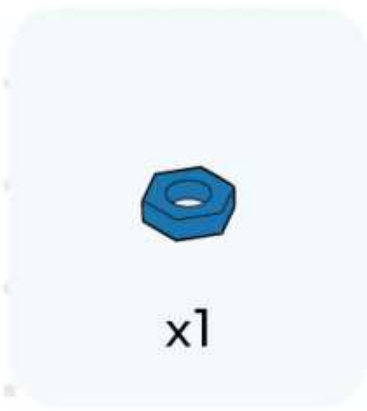
line up
the holes



8

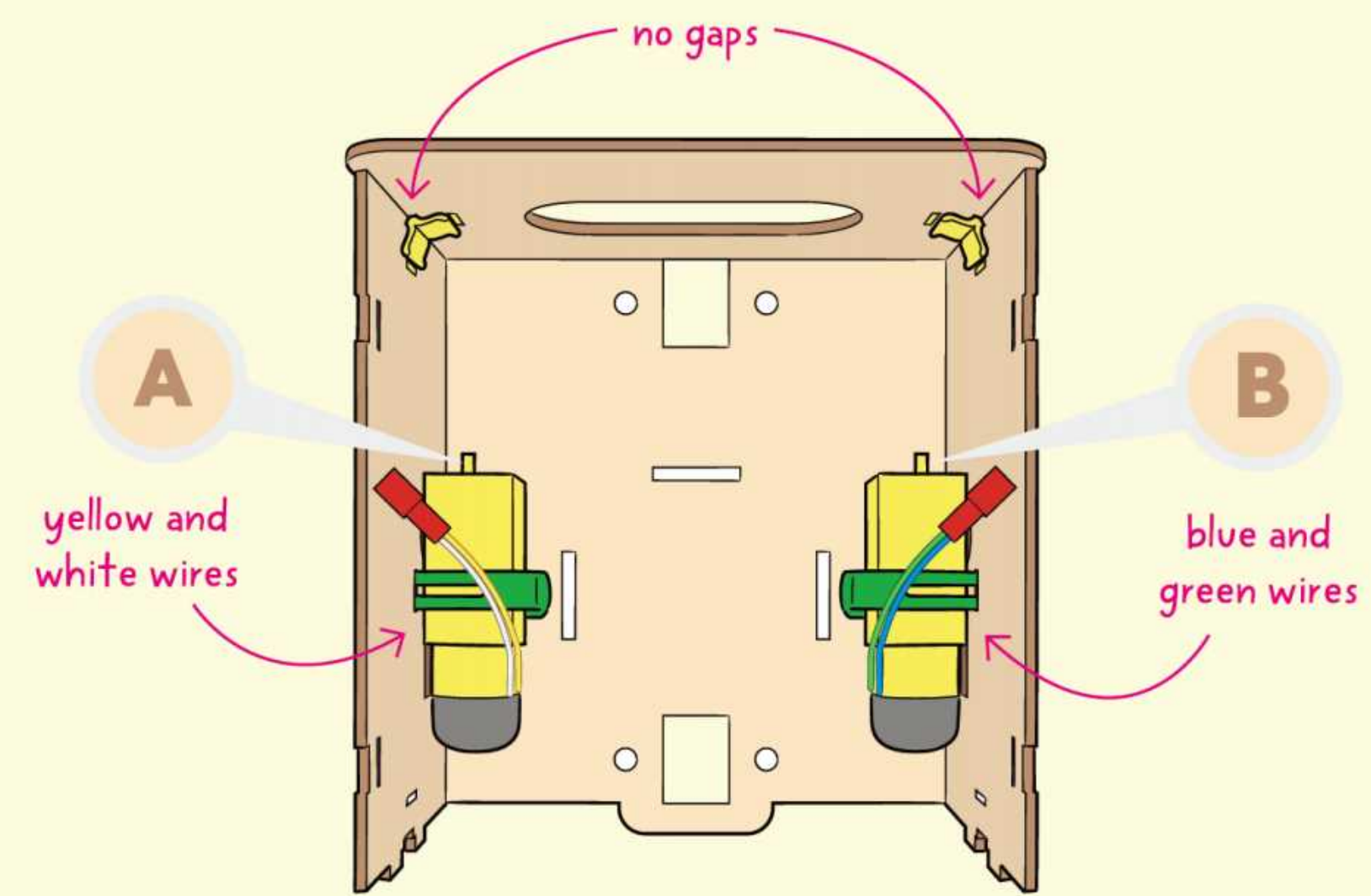


9



Stop & Check

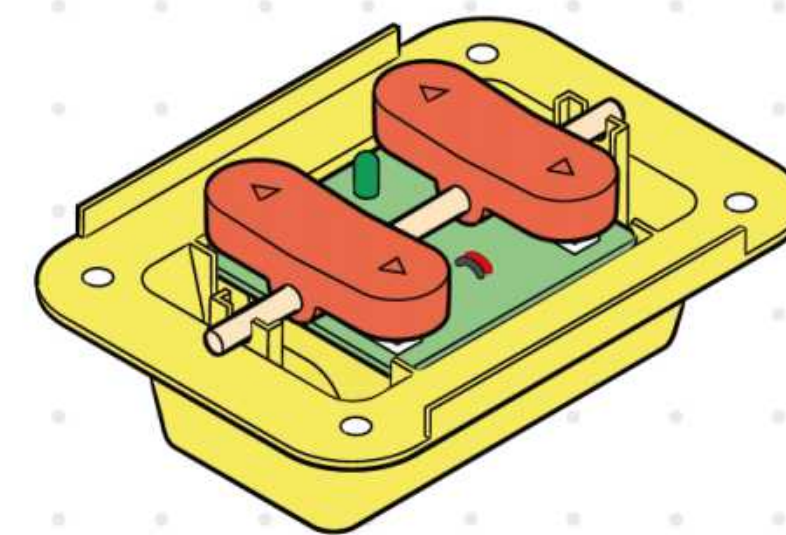
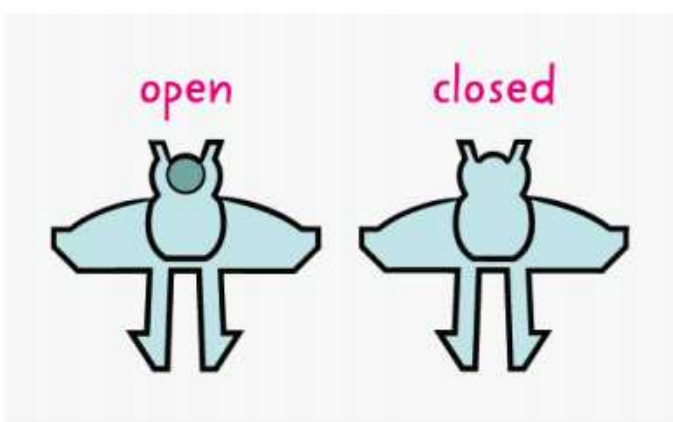
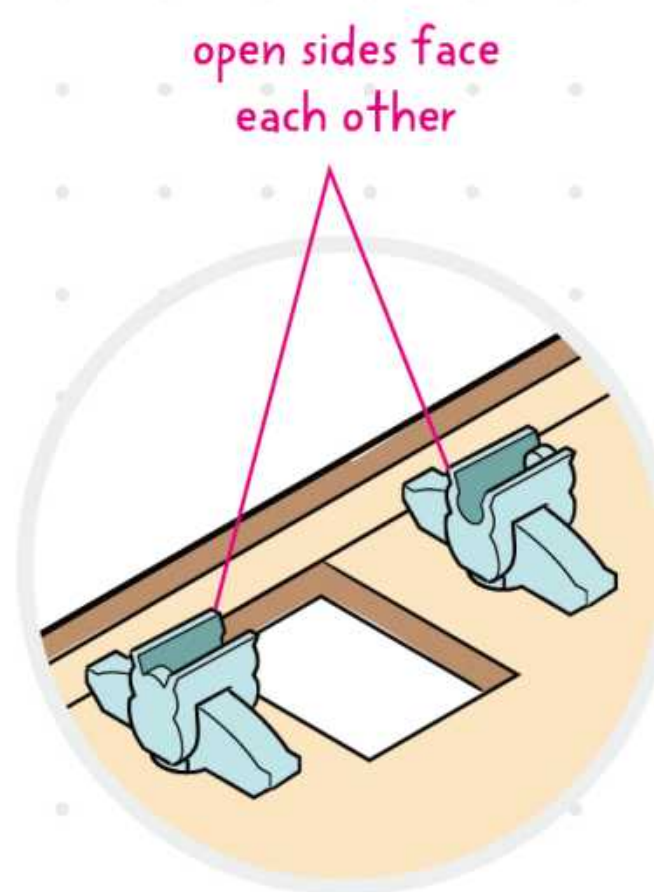
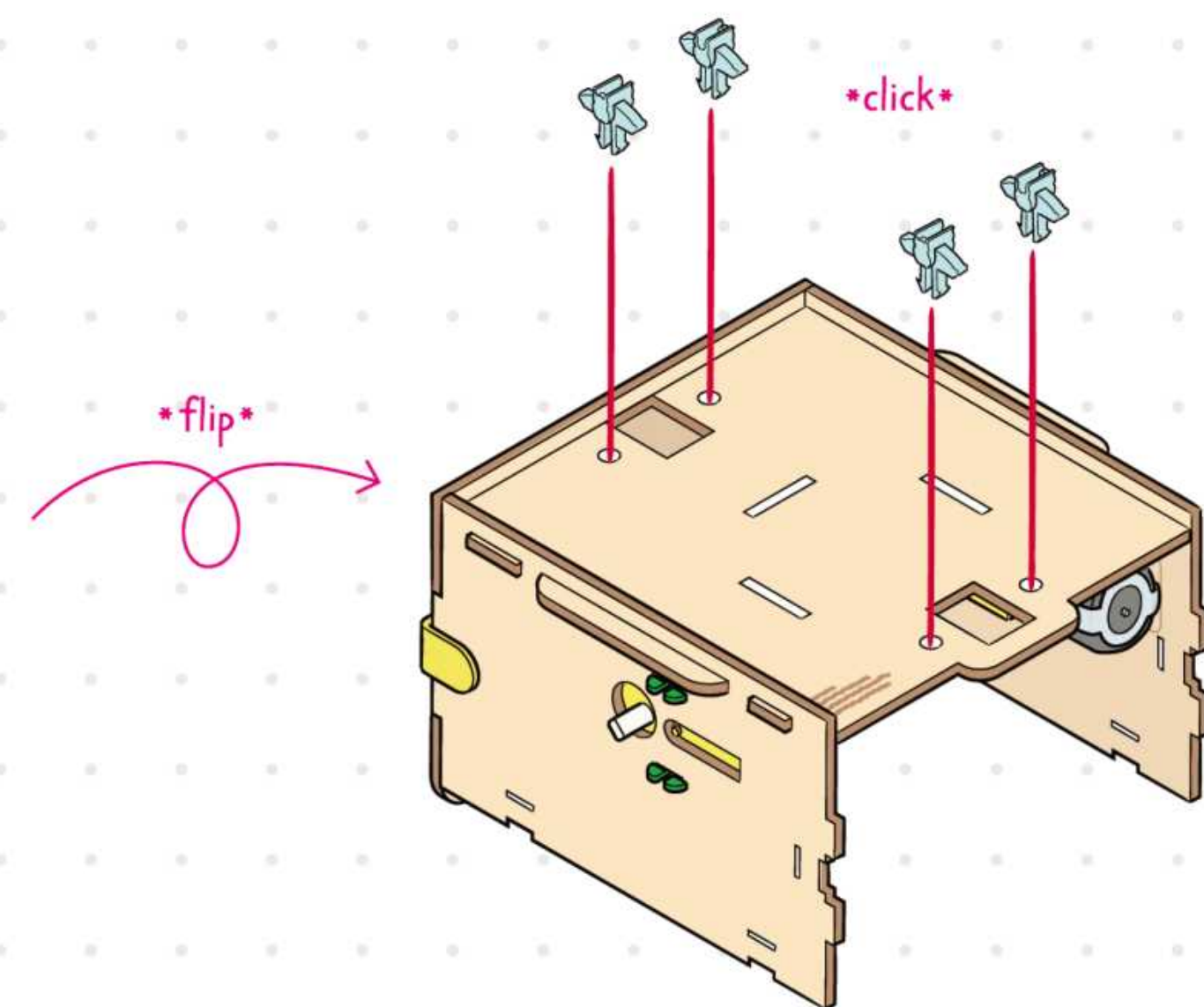
Check that the motors and body pieces match the picture.



8



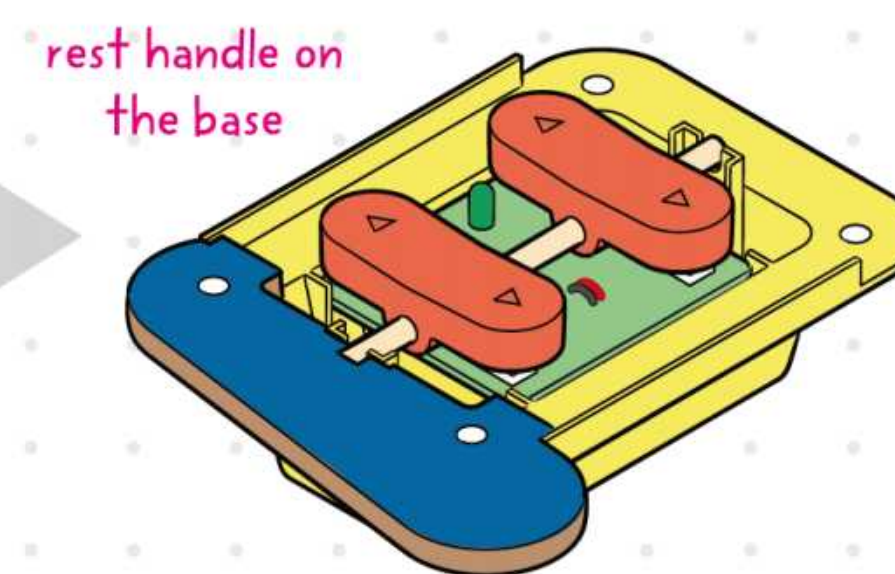
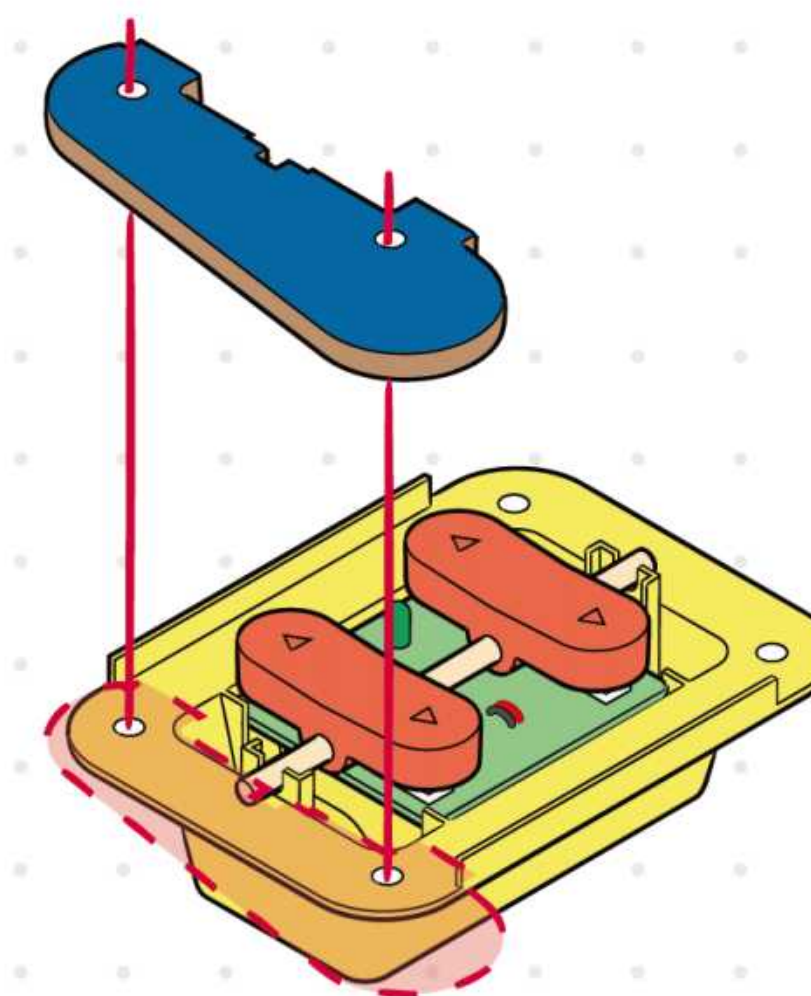
x4



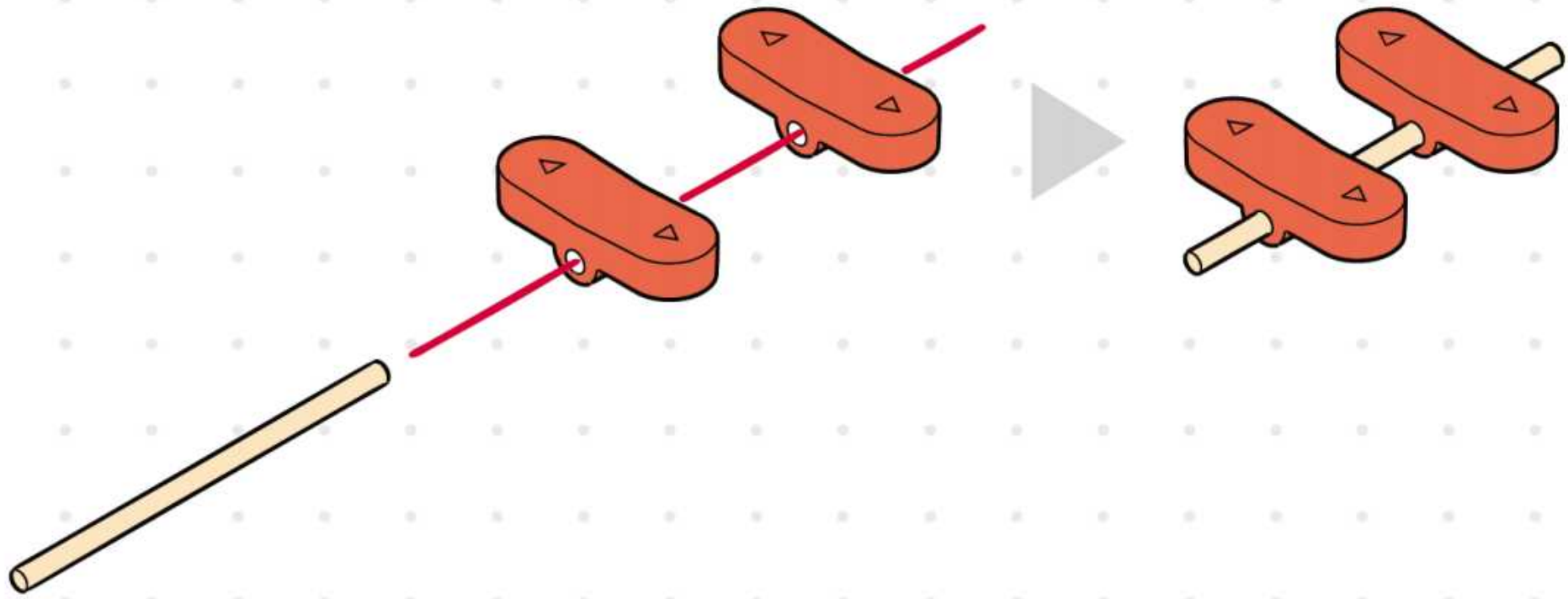
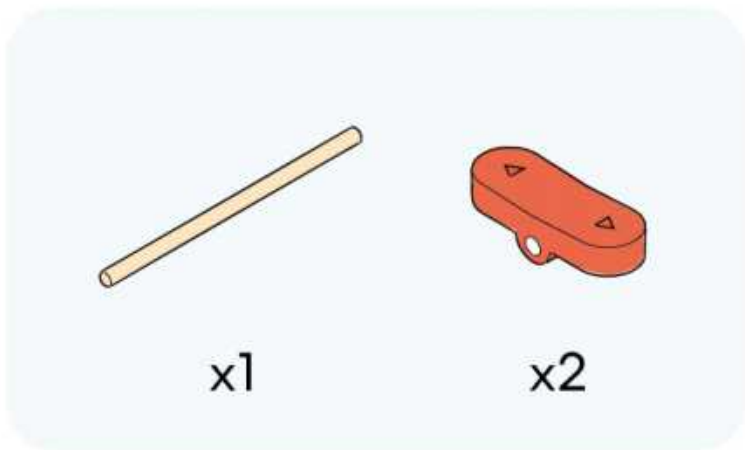
7



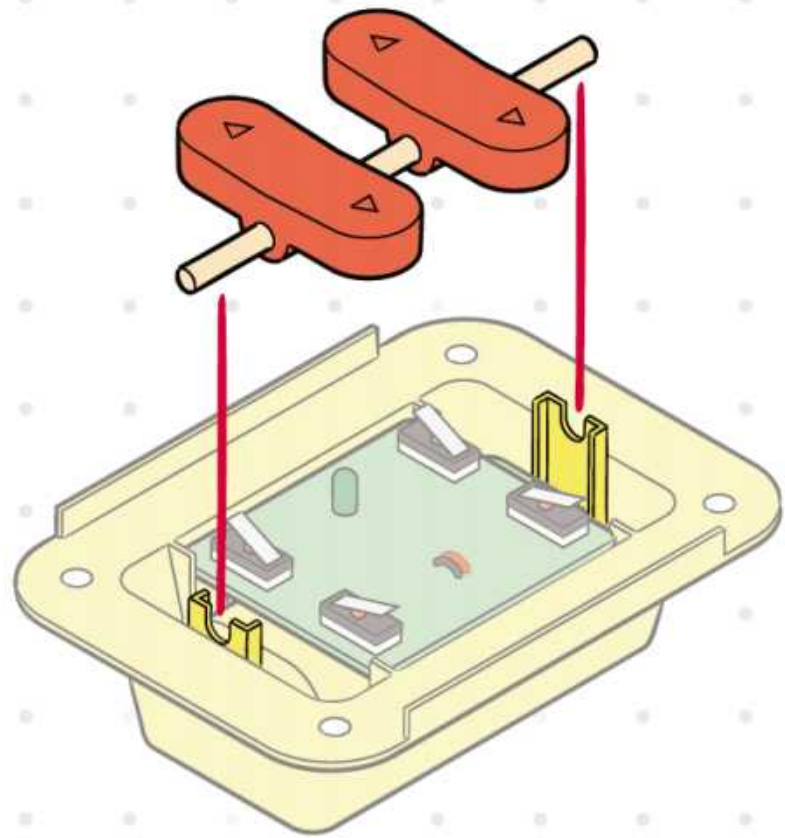
x1



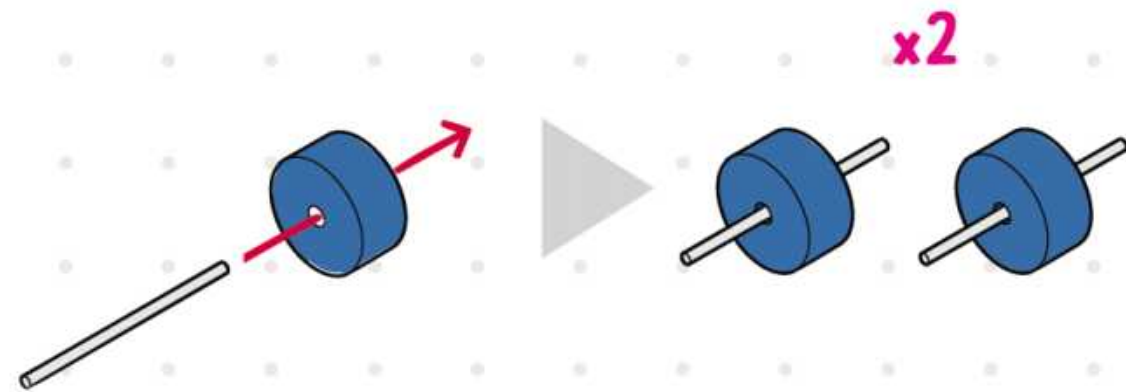
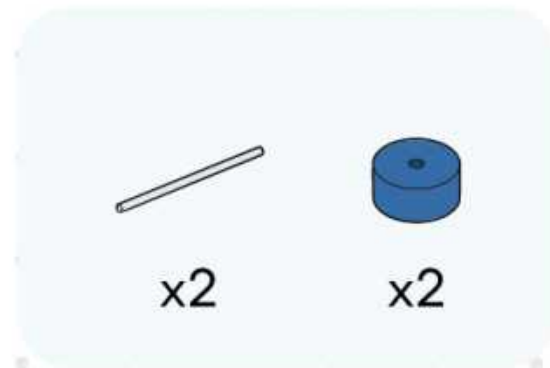
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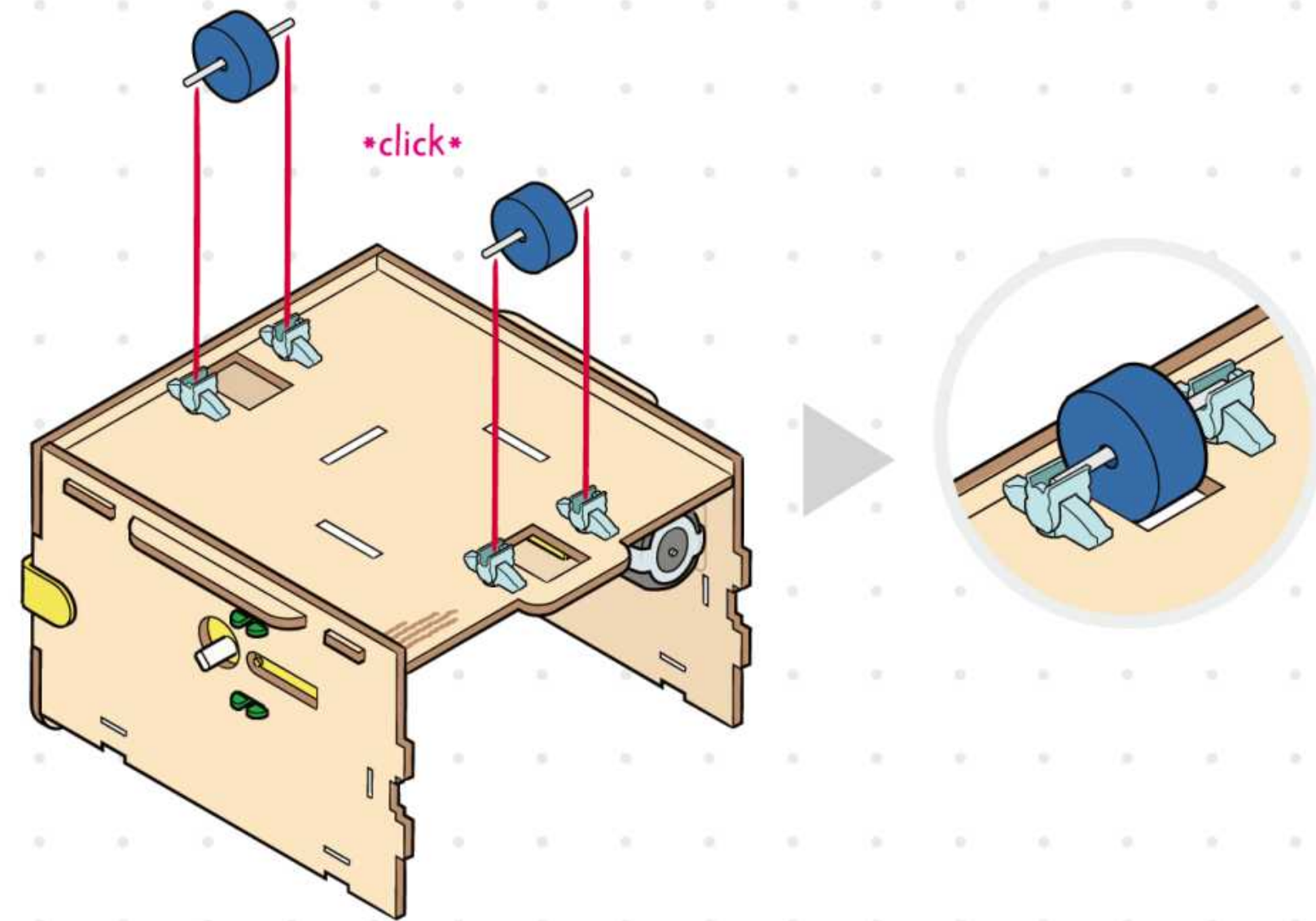
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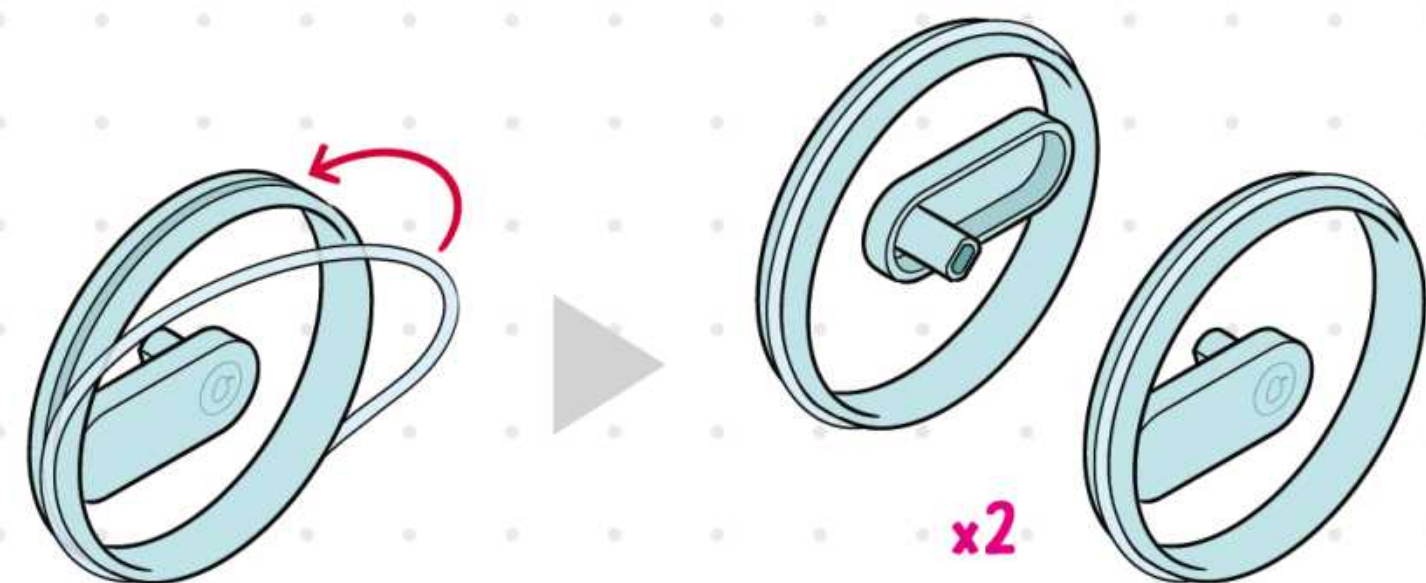
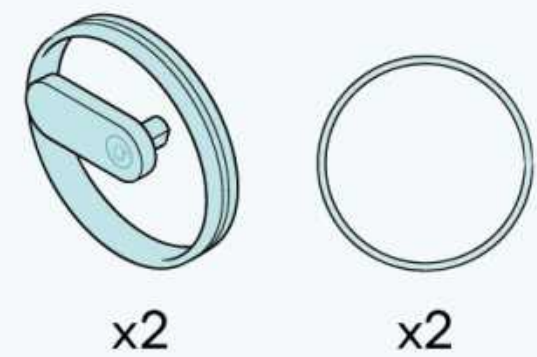
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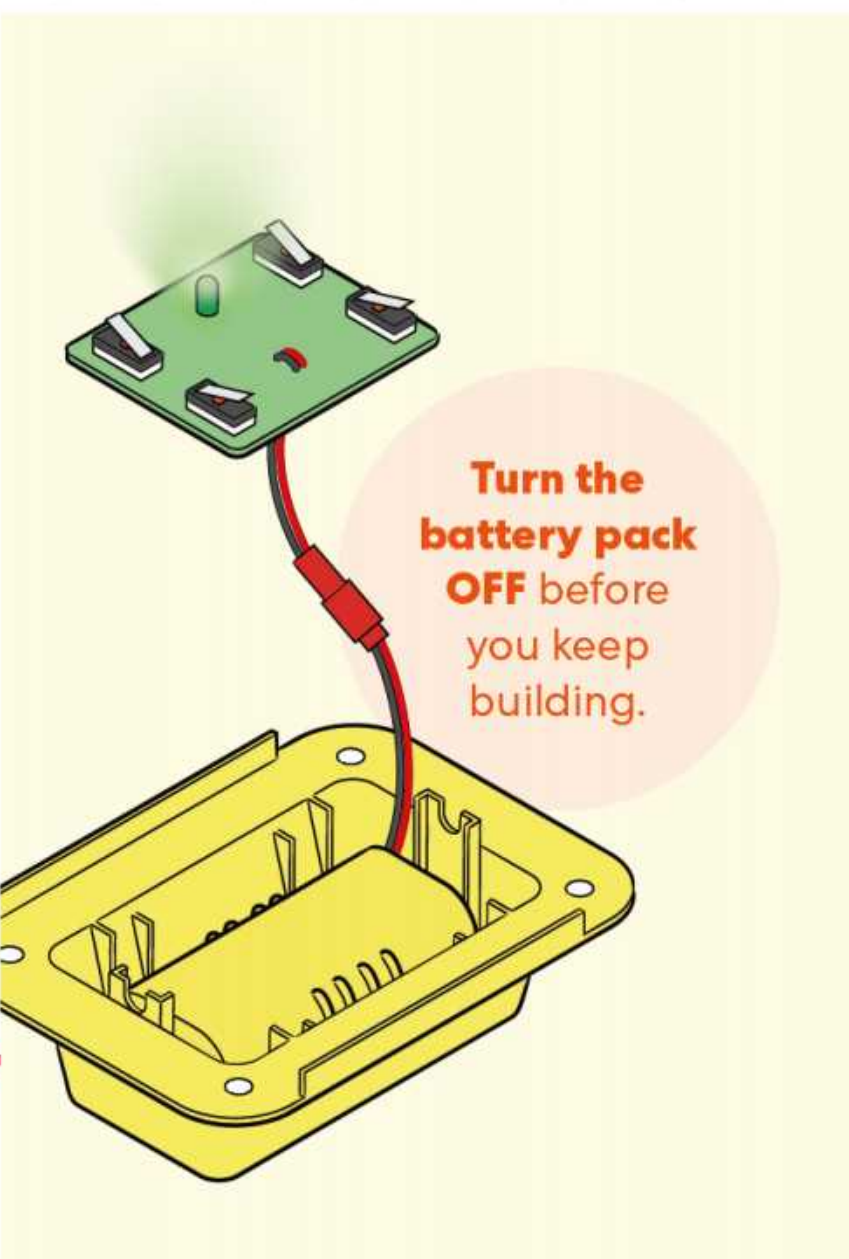
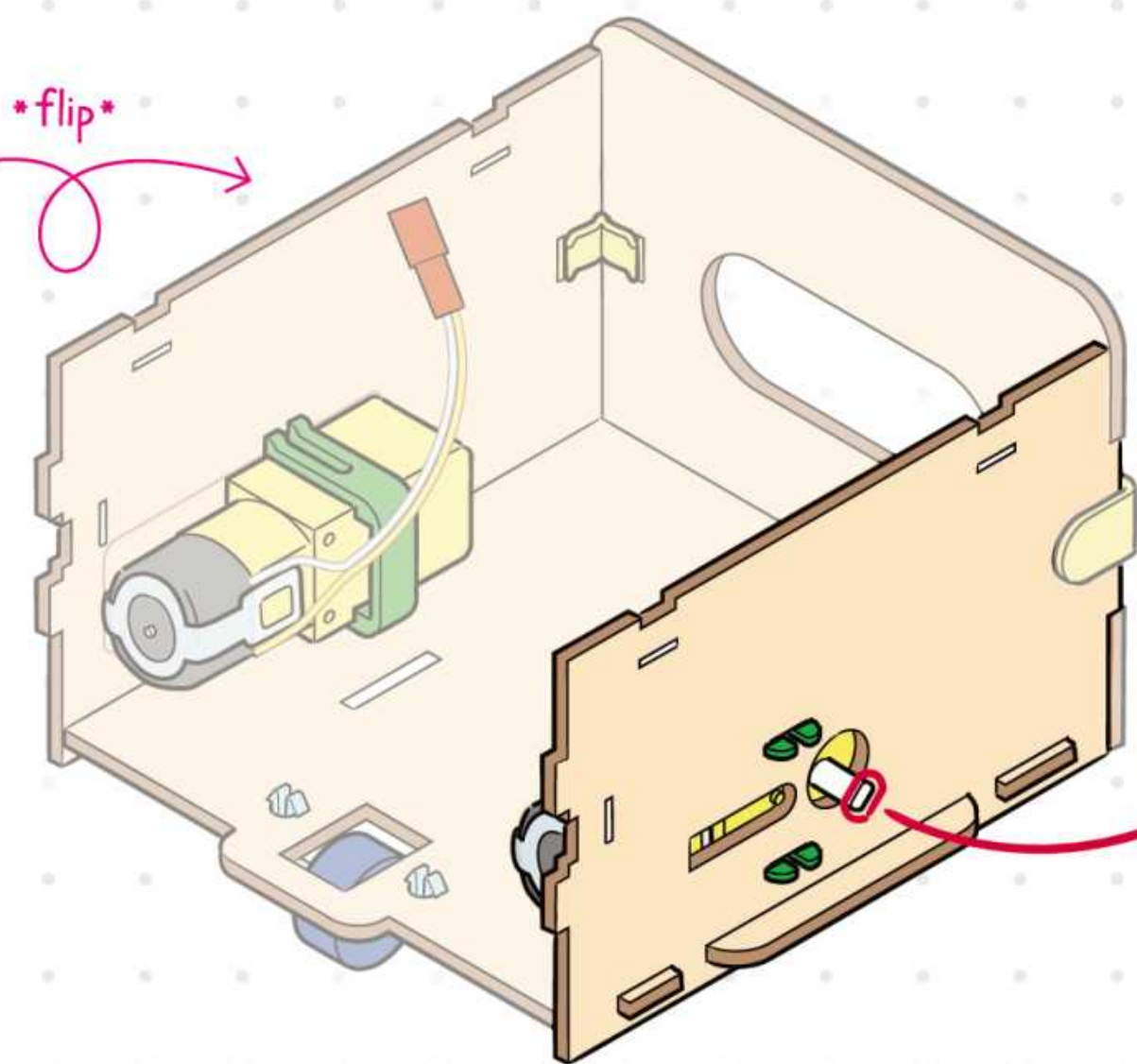
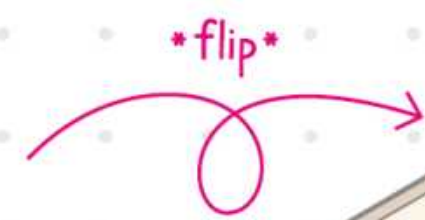
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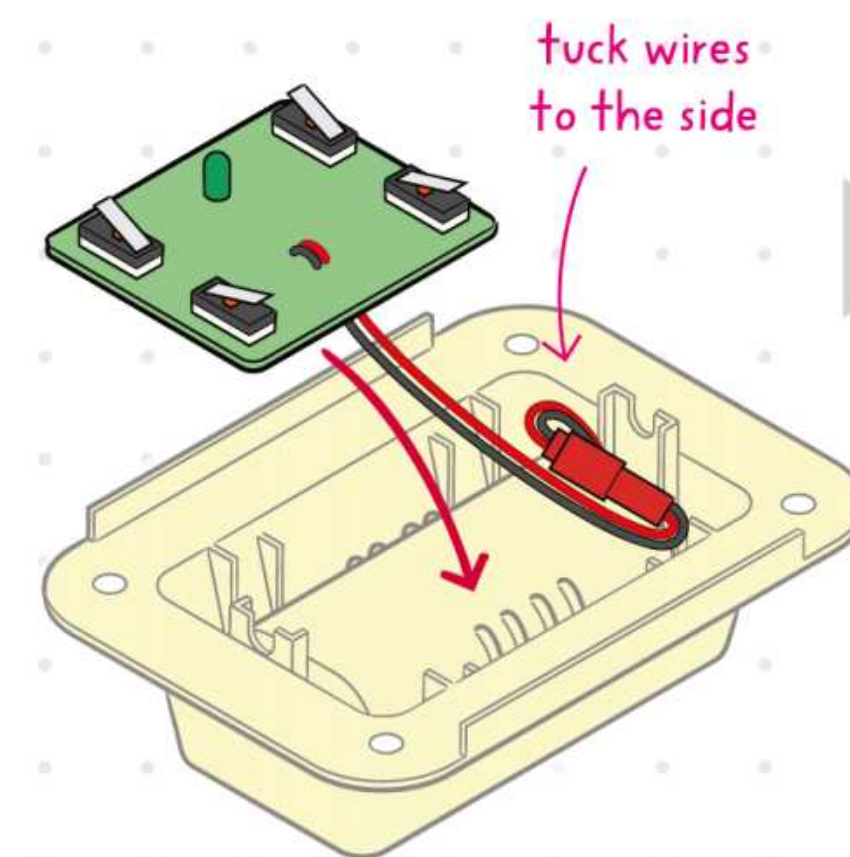
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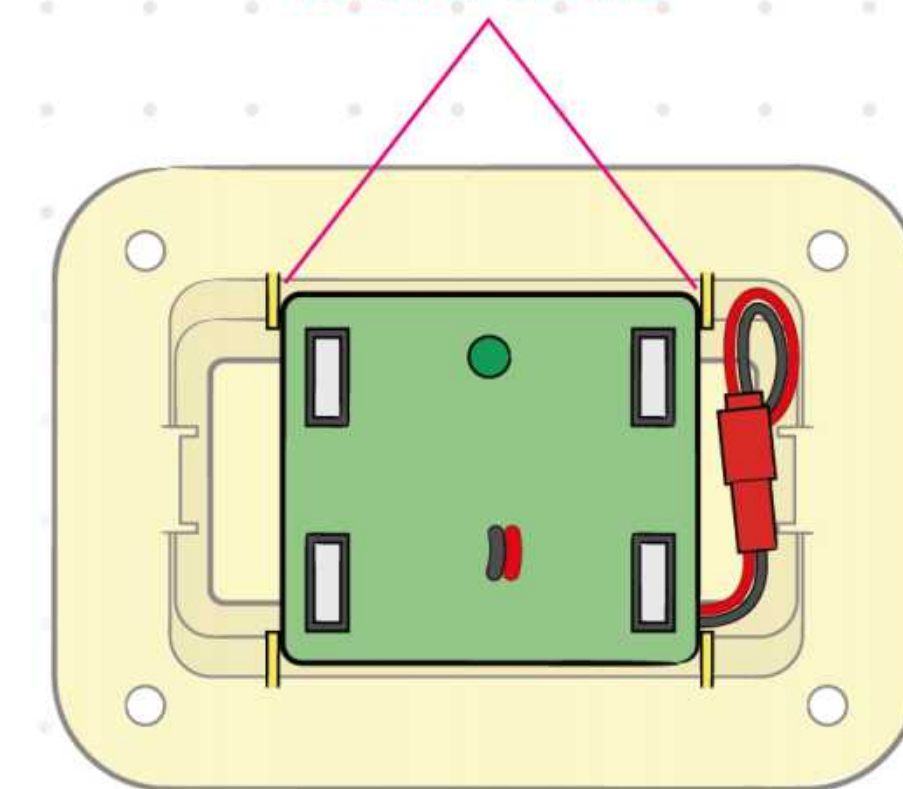
12



4



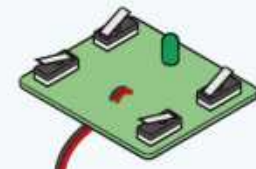
switch fits in
between the ribs



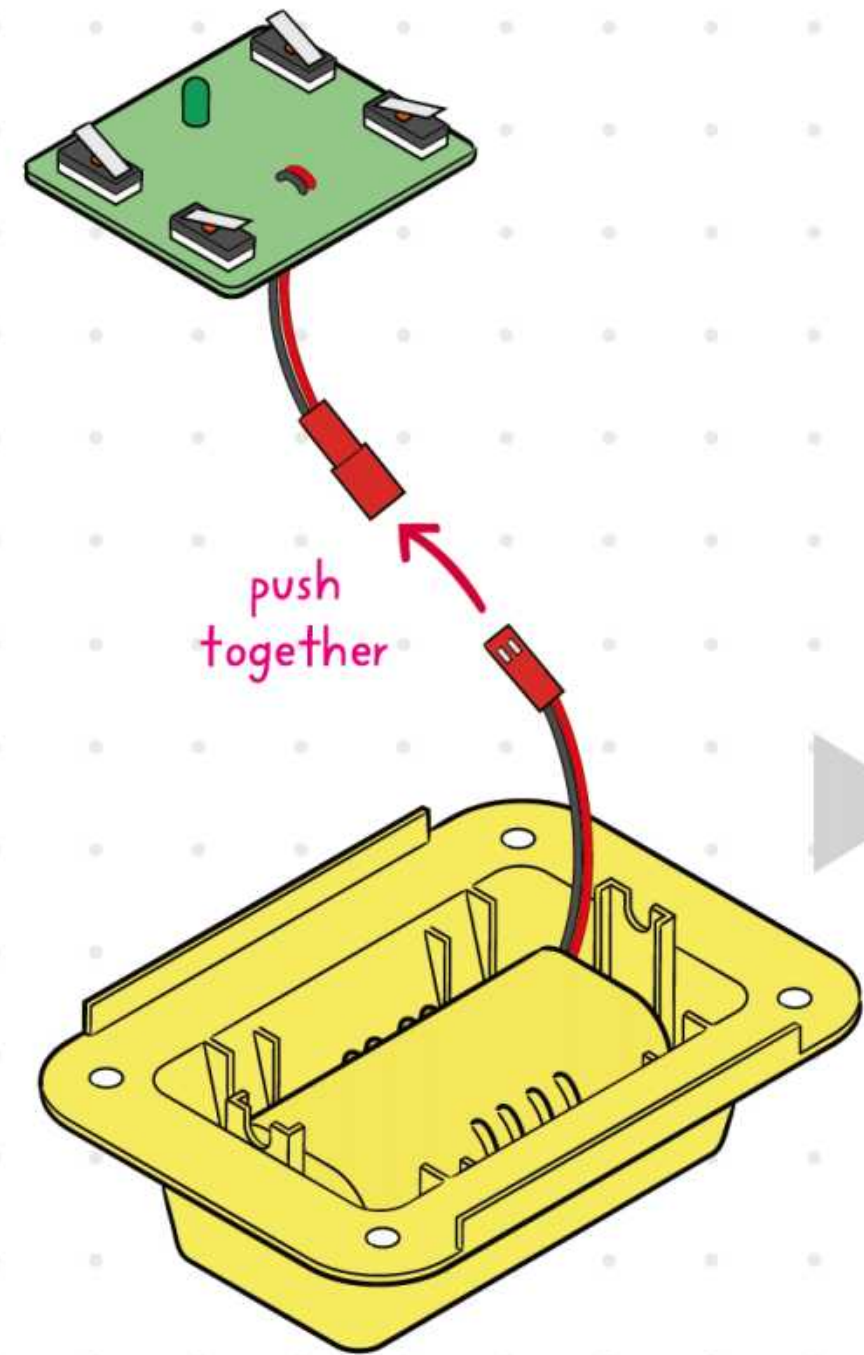
tip!

The switch and wires will be loose.
Make sure that they tuck down on the
sides of the yellow ribs, not above them.

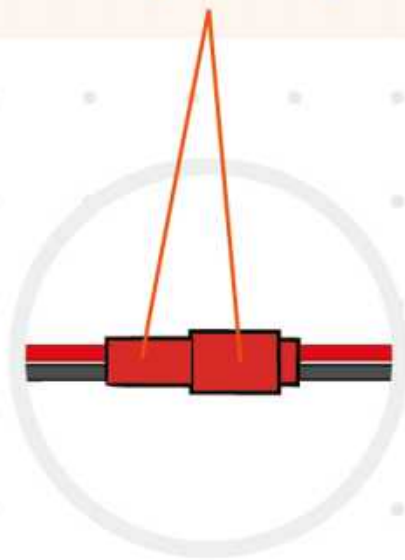
3



x1

**caution!**

Remember to hold the red connectors when putting wires together or taking them apart.



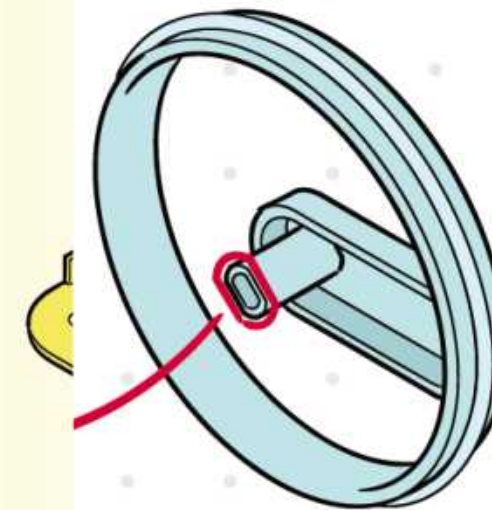
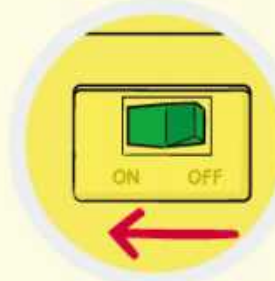
Stop & Check

1. Turn the battery pack ON.

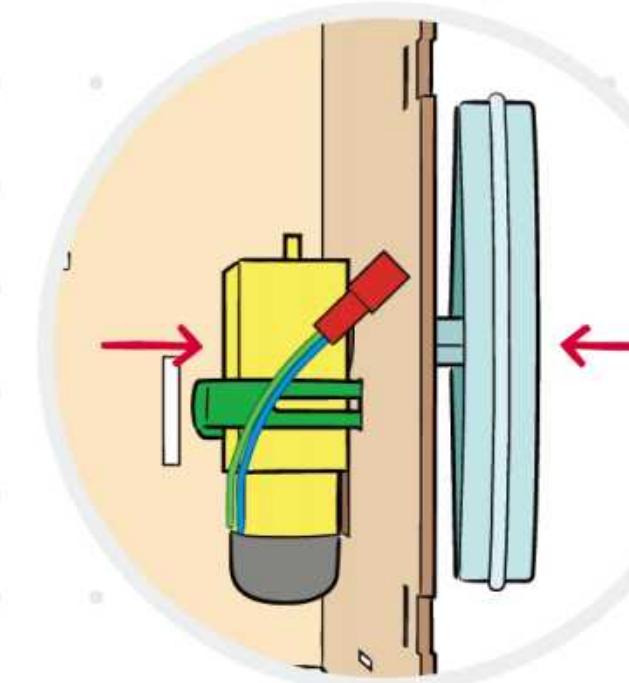
The light will blink!

2. If it doesn't, check that:

- The tab on the battery pack is pulled out.
- The wires on the battery pack are fully connected to the wires on the transmitter.
- The battery pack on the bot is turned OFF.



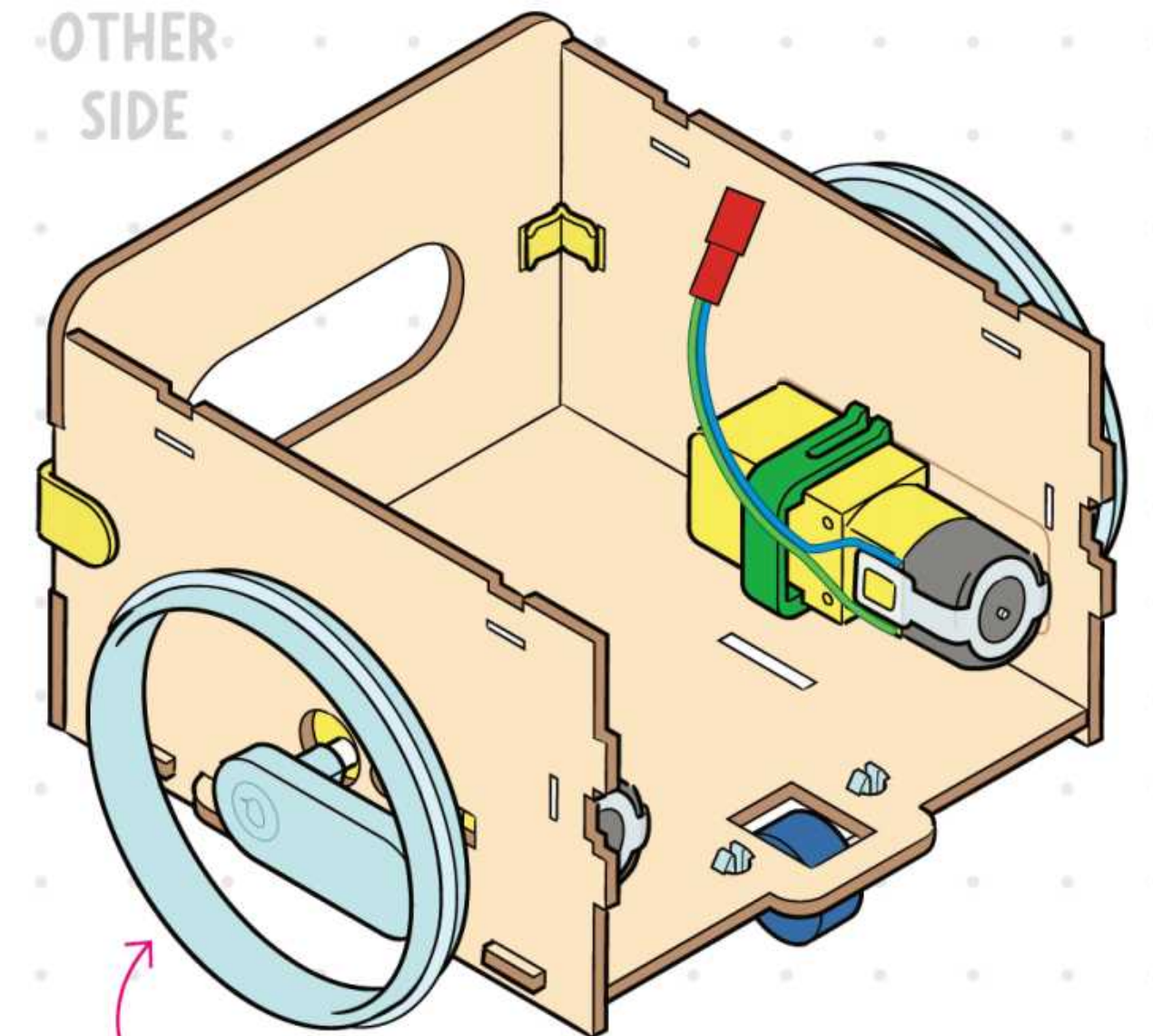
TOP VIEW

**tip!**

Push on the motor and the middle of the wheel to fit them together.

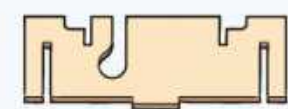
13

OTHER SIDE

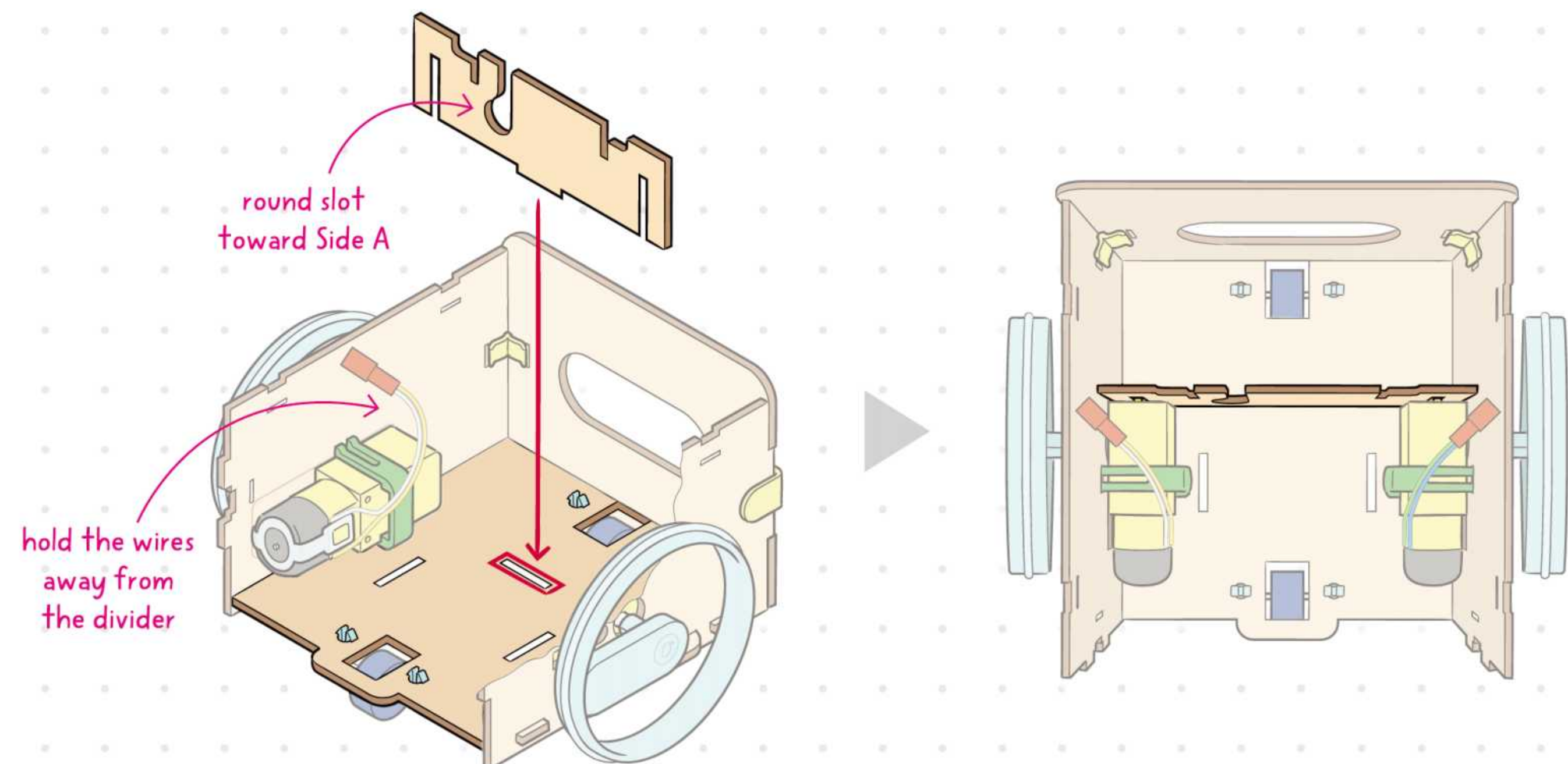


repeat
Step 12

14



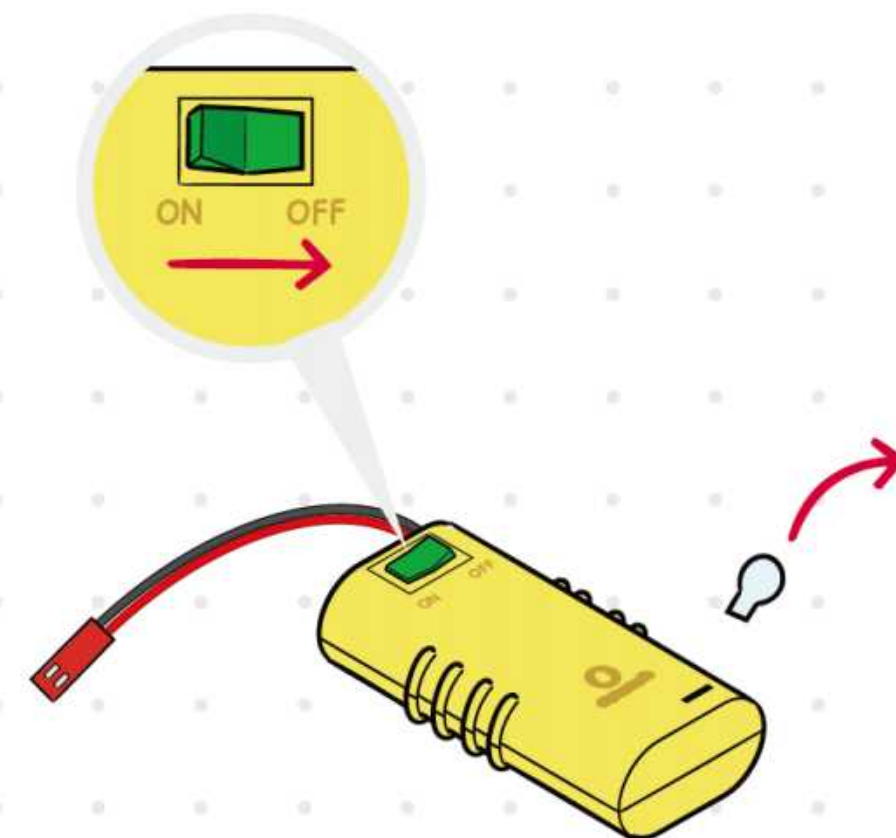
x1



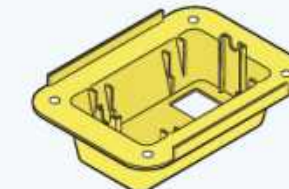
1



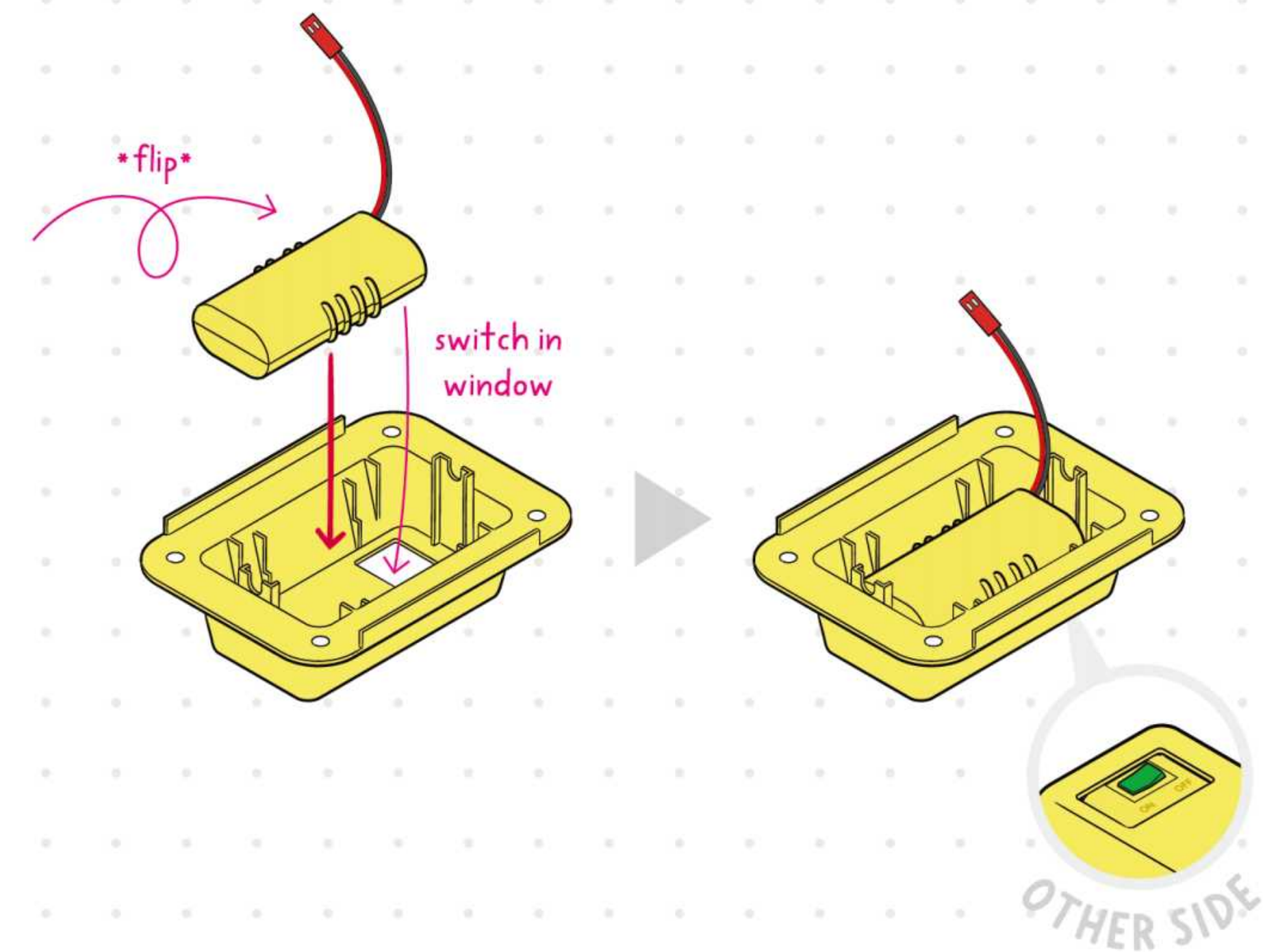
x1



2



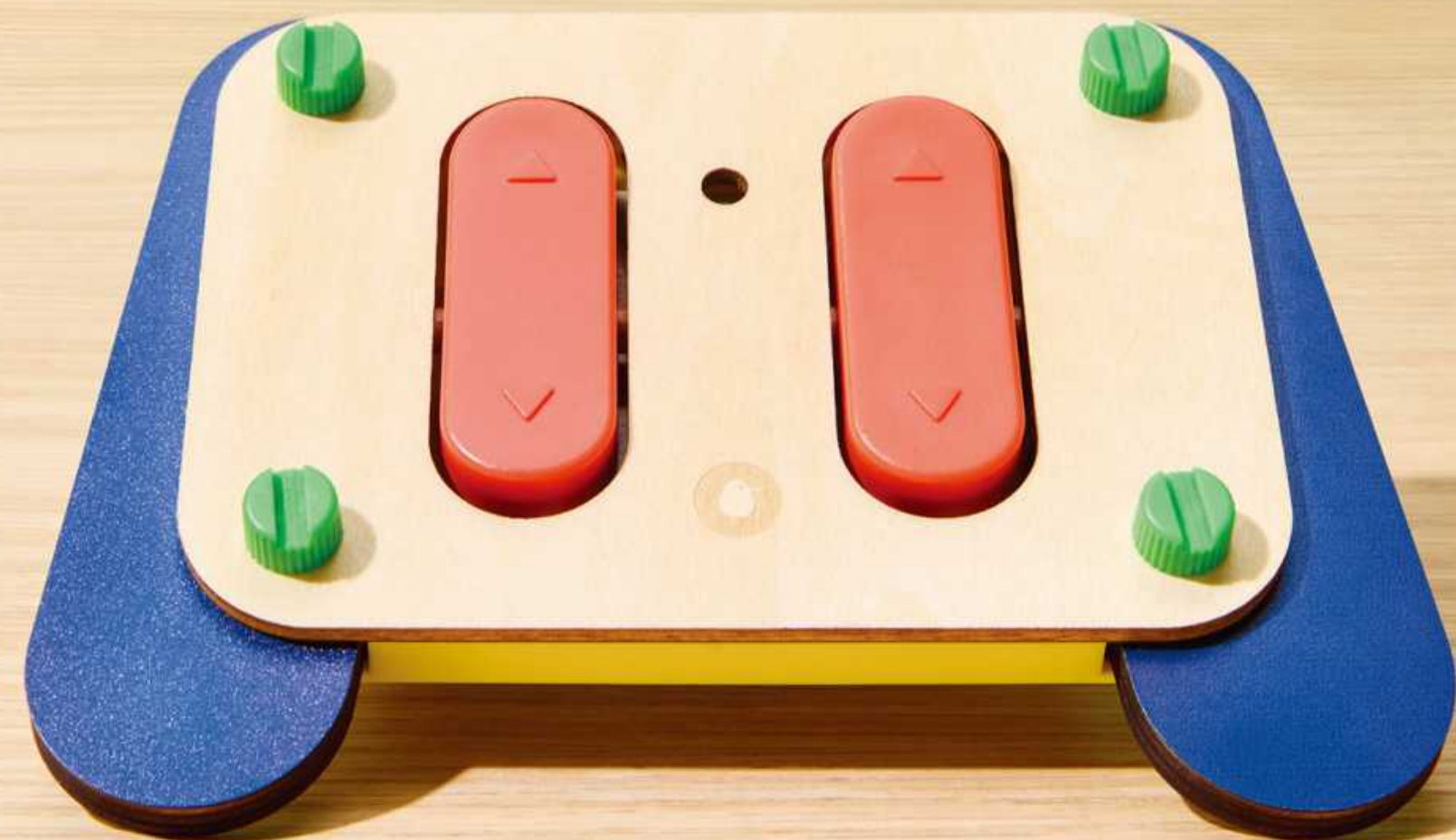
x1



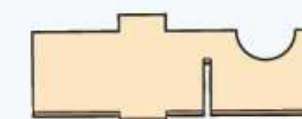
Part D

Make the controller ^{MZ}

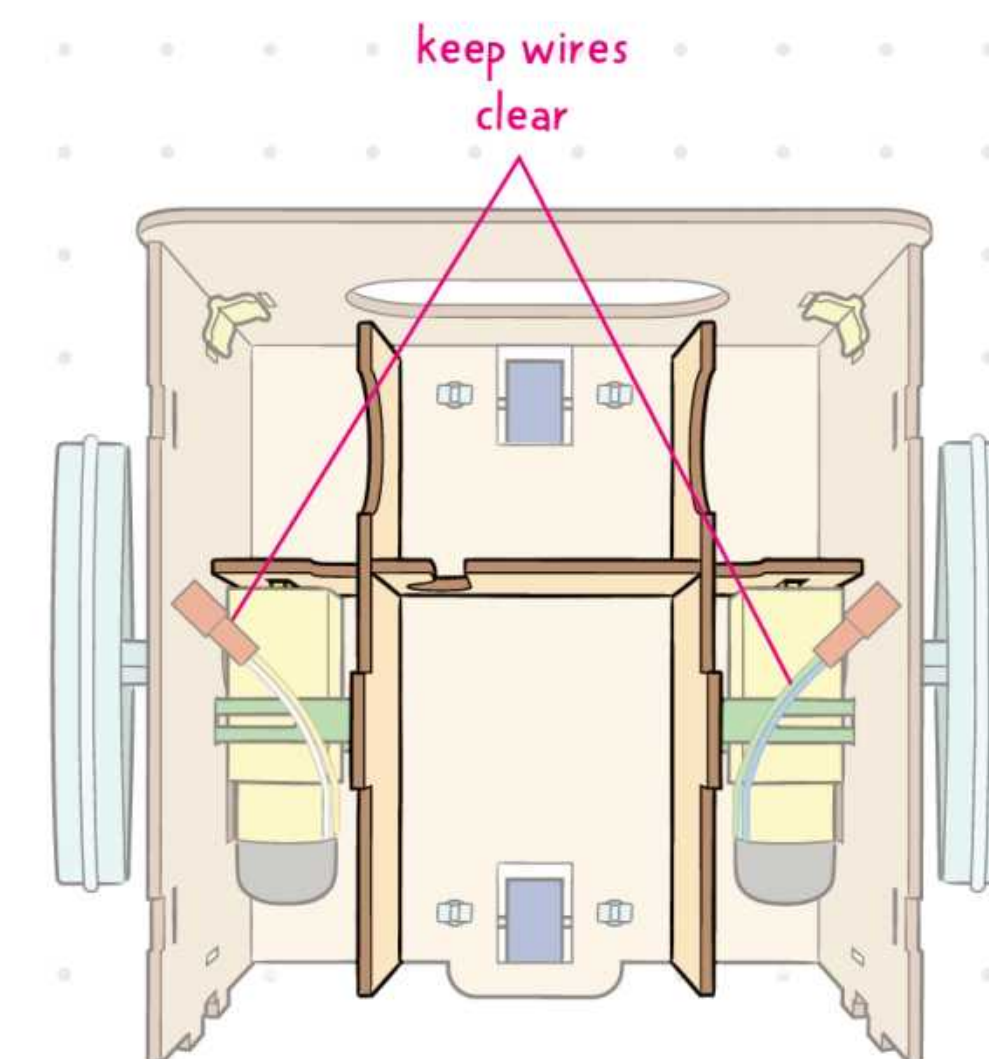
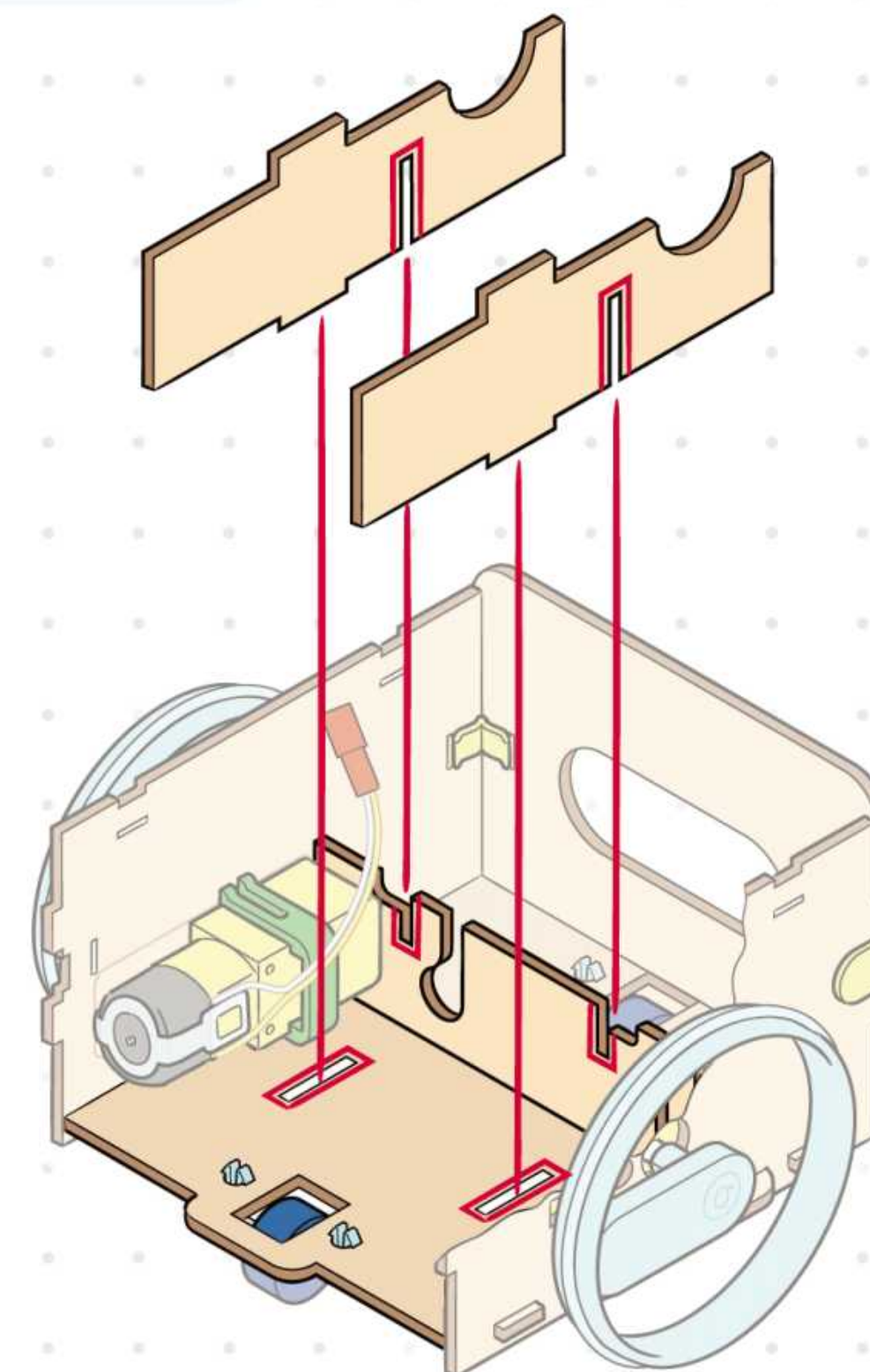
Message received,
loud and clear!



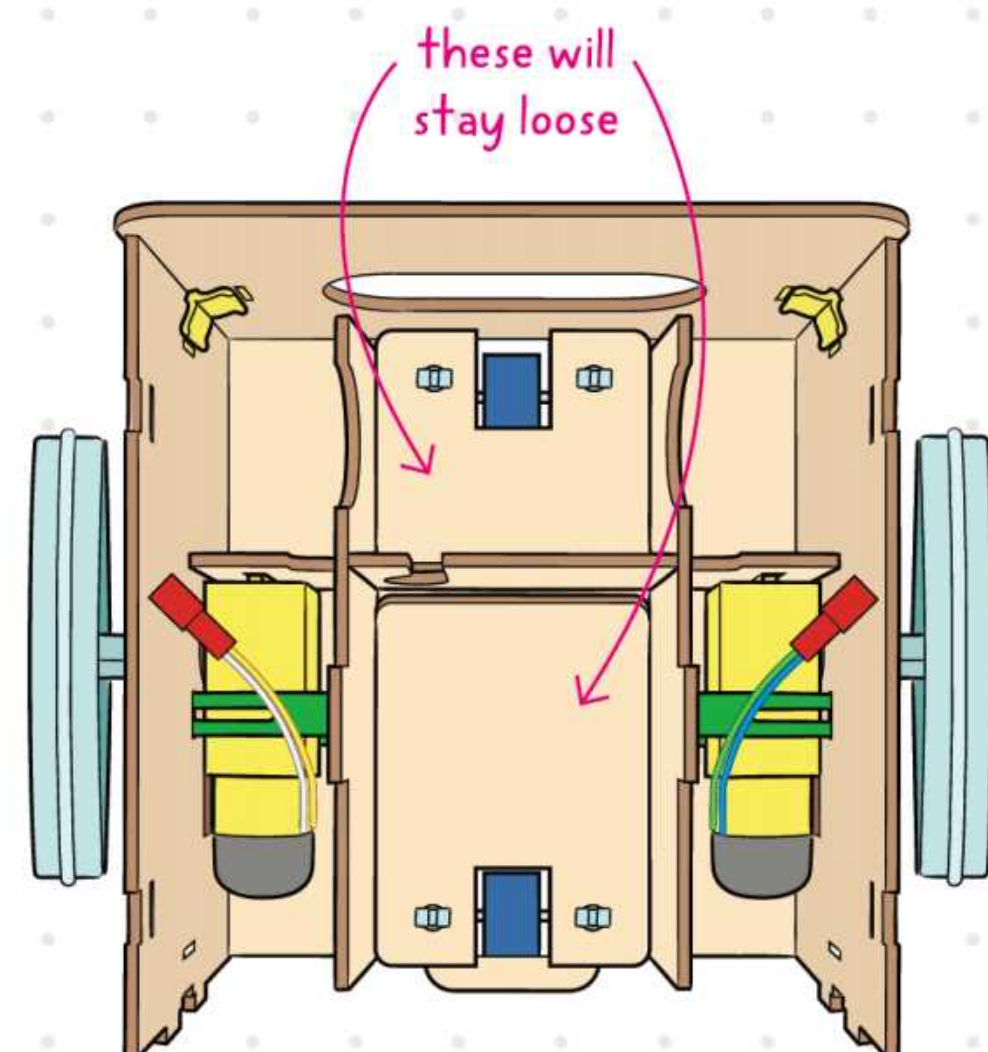
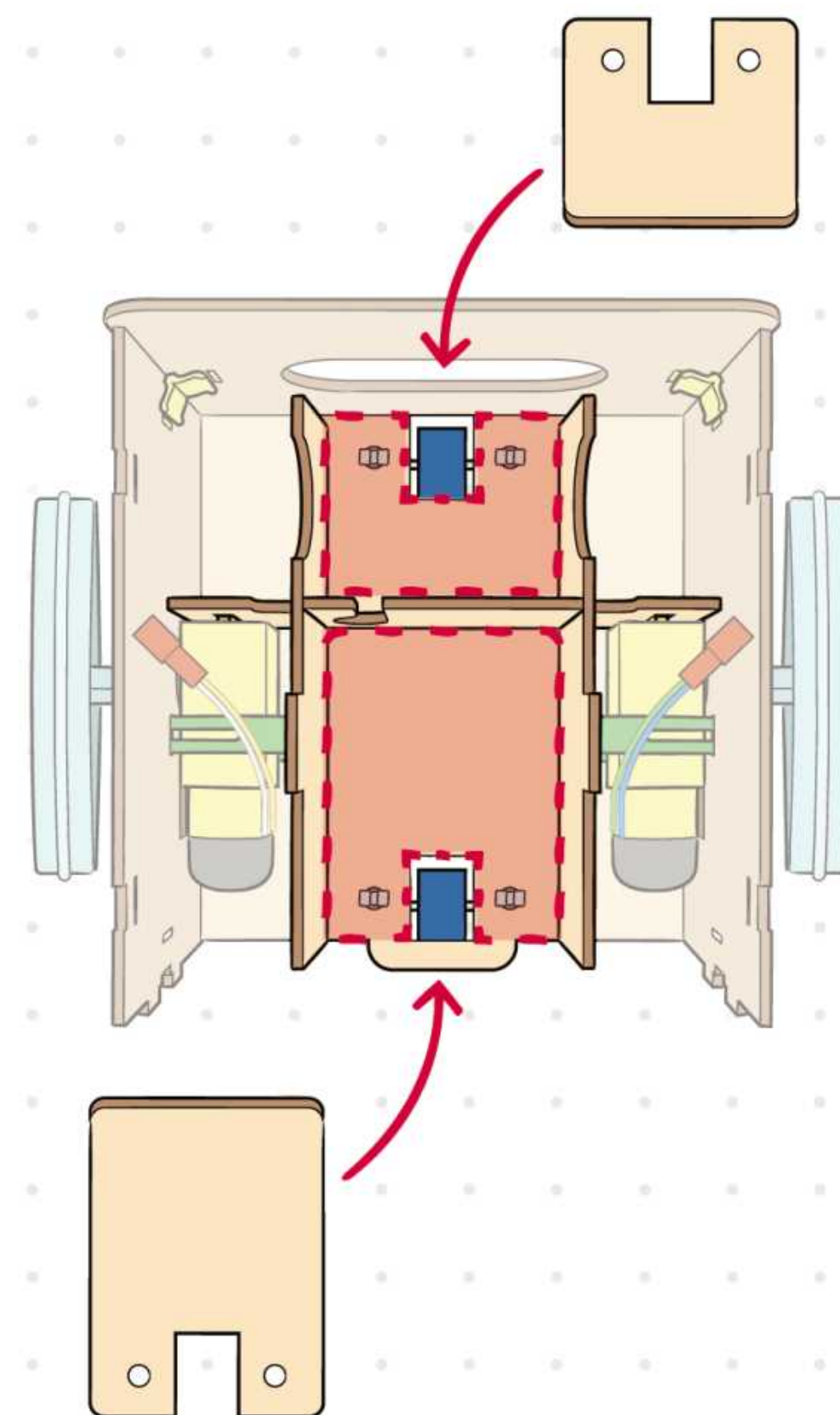
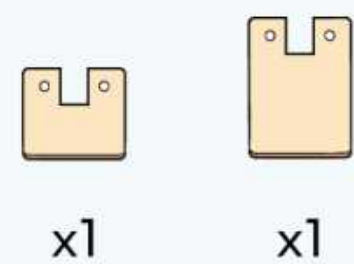
15



x2



16



Part C

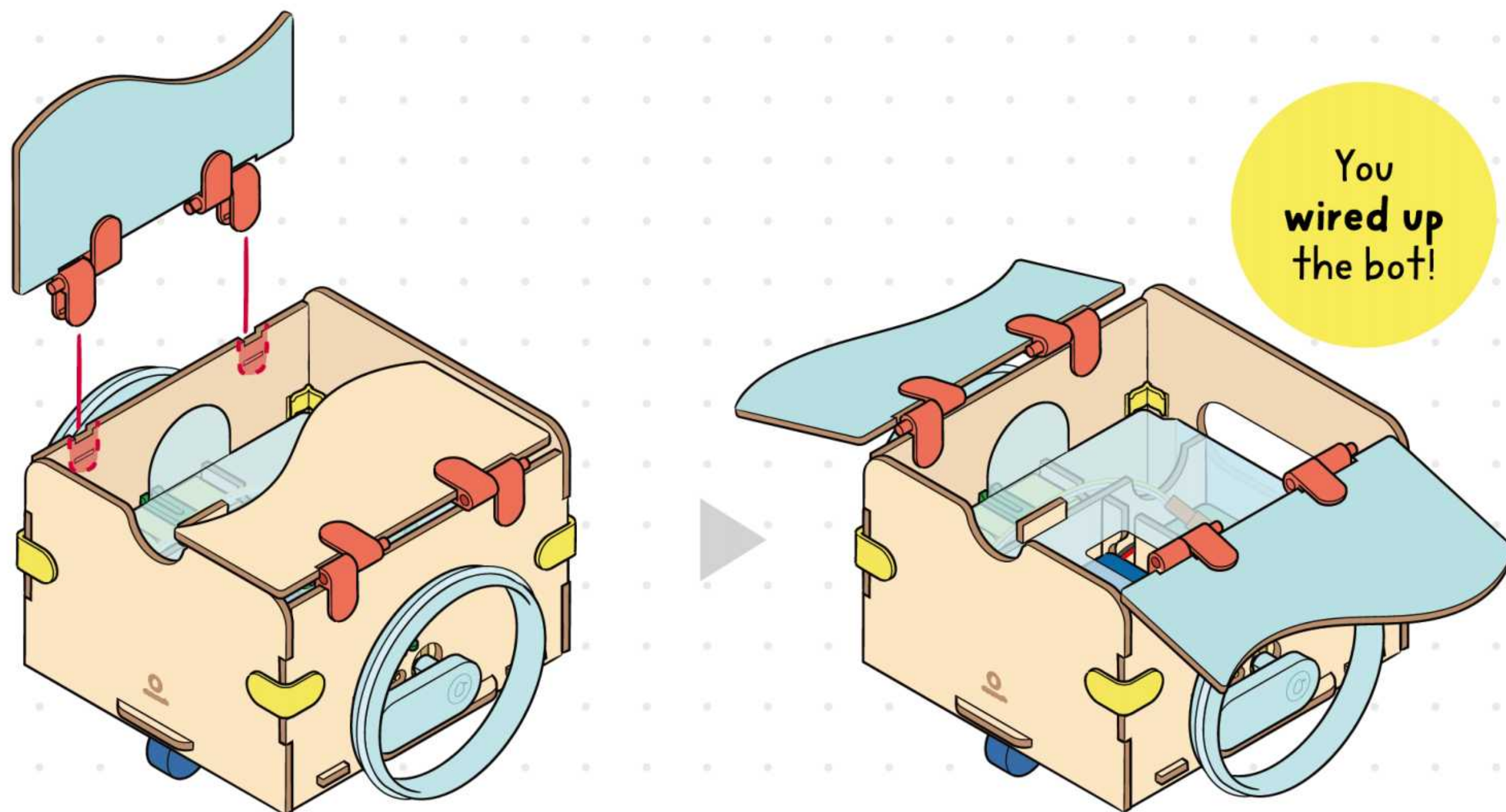
Customize your bot!

Grab the **crate cover**.
You'll find lots of ways
to customize your bot.
Try them out or make
up your own!

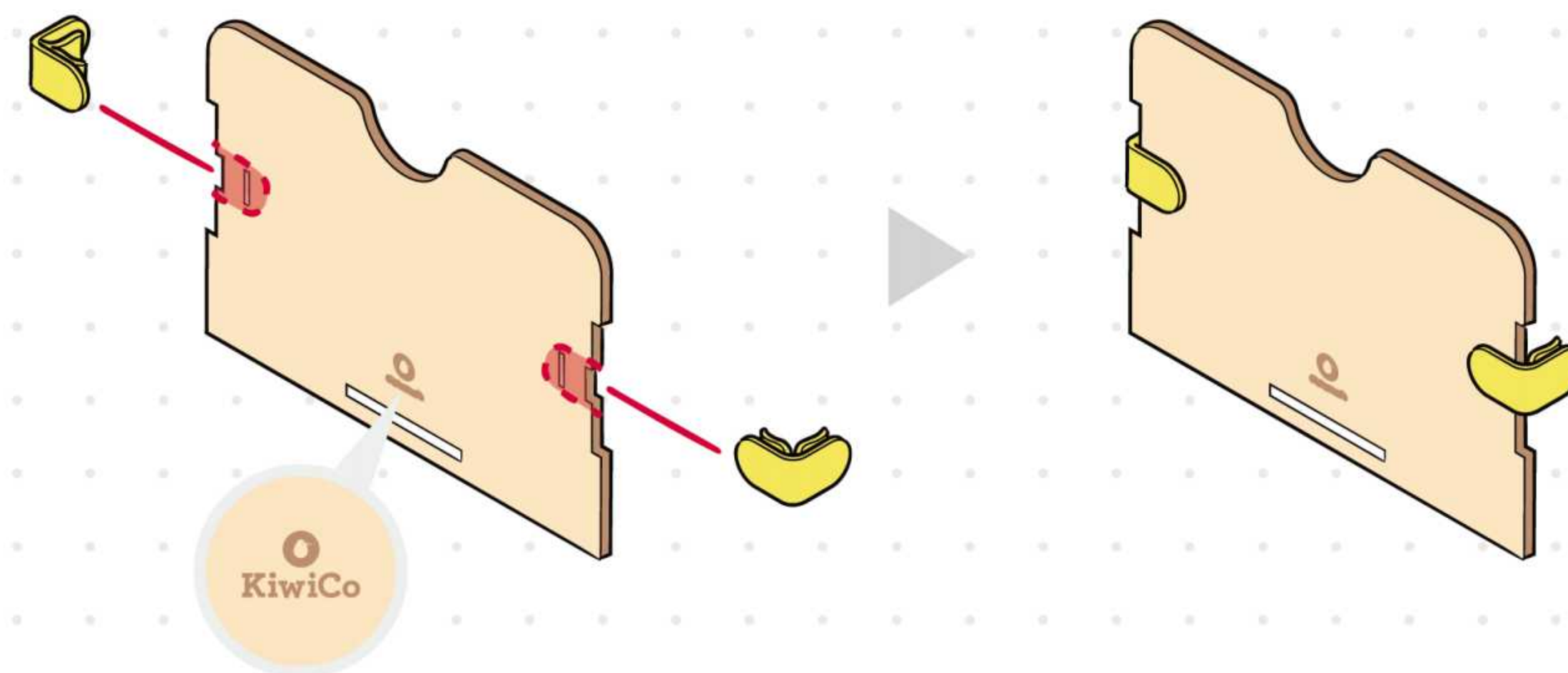
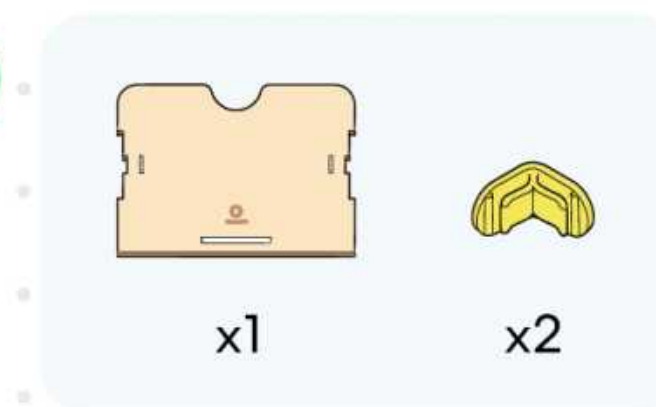


If you want
to keep building,
go ahead! You
can always
customize later.

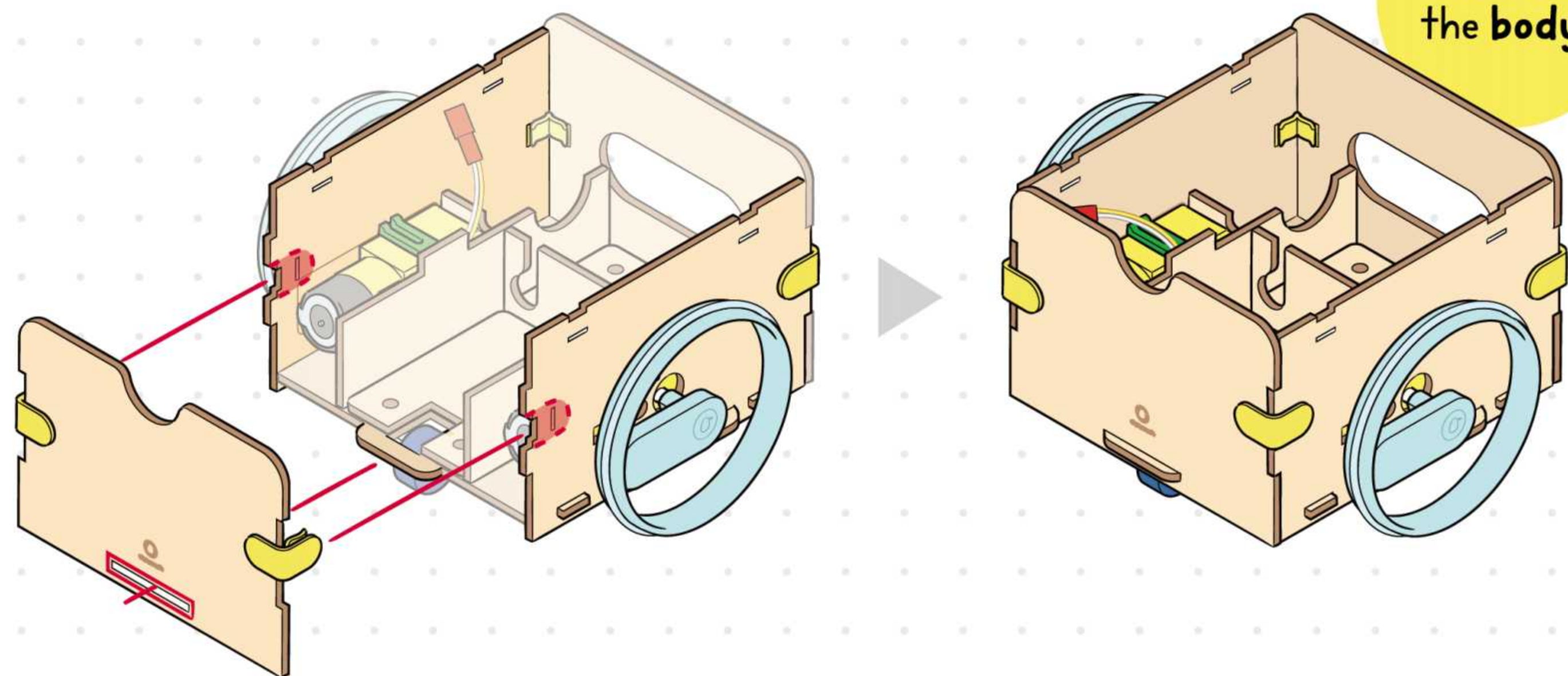
10



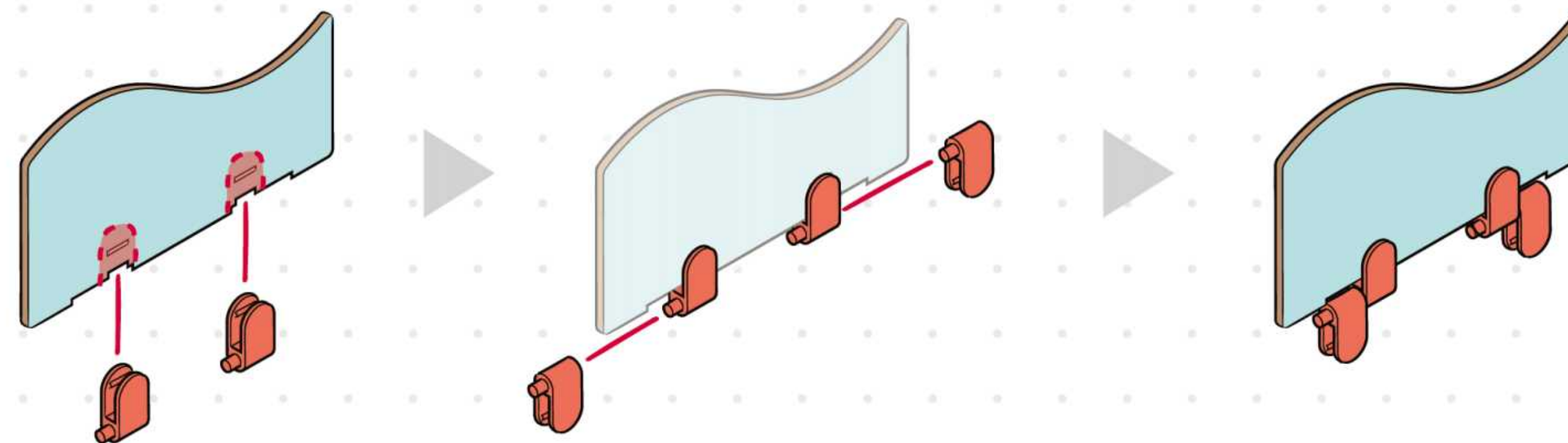
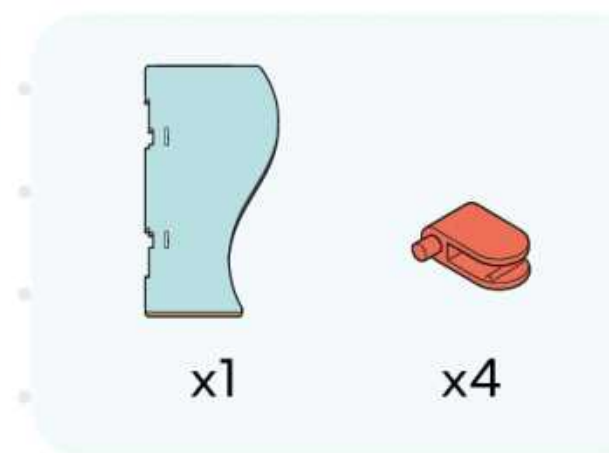
17



18



9



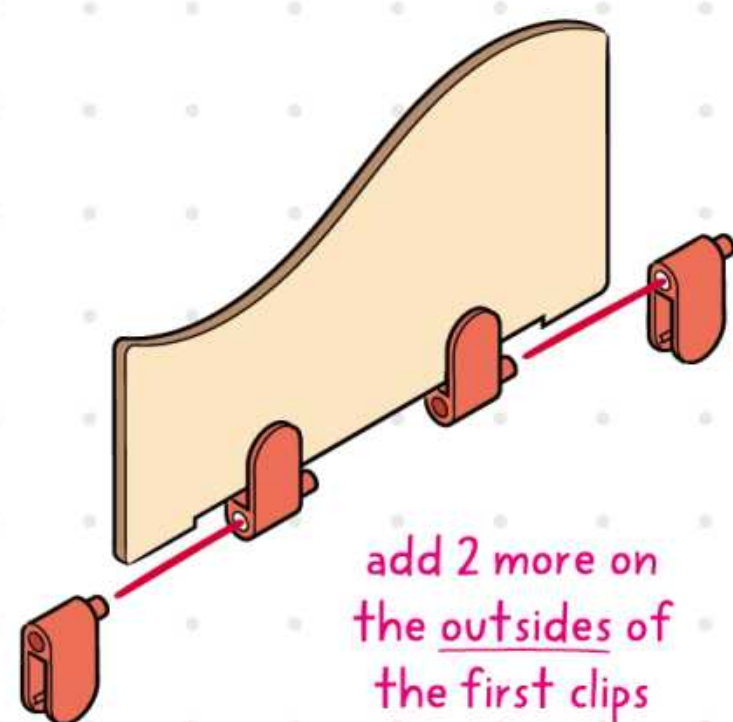
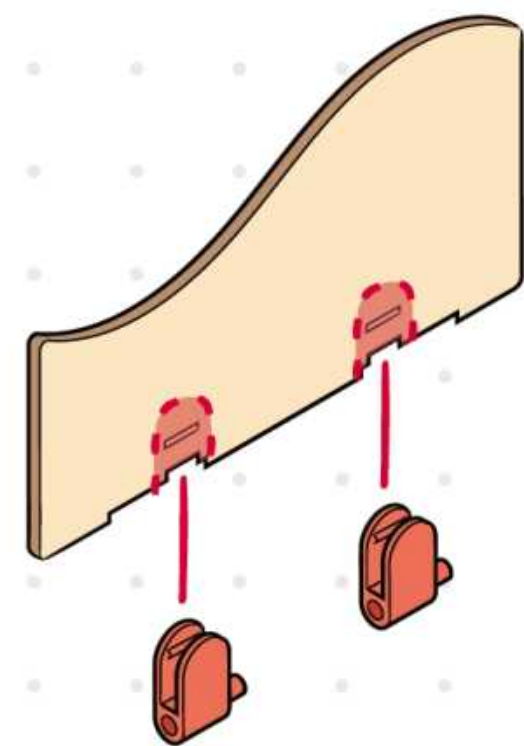
8



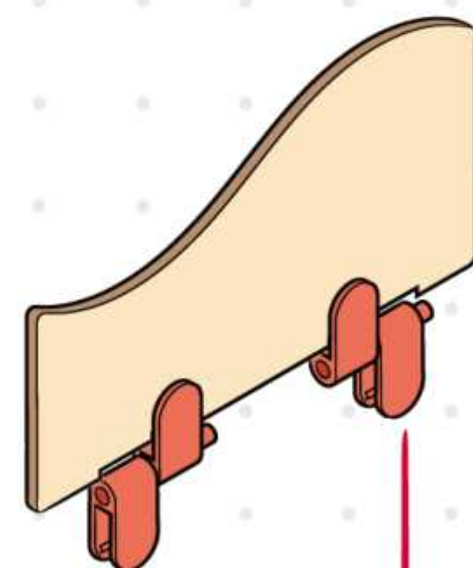
x1



x4



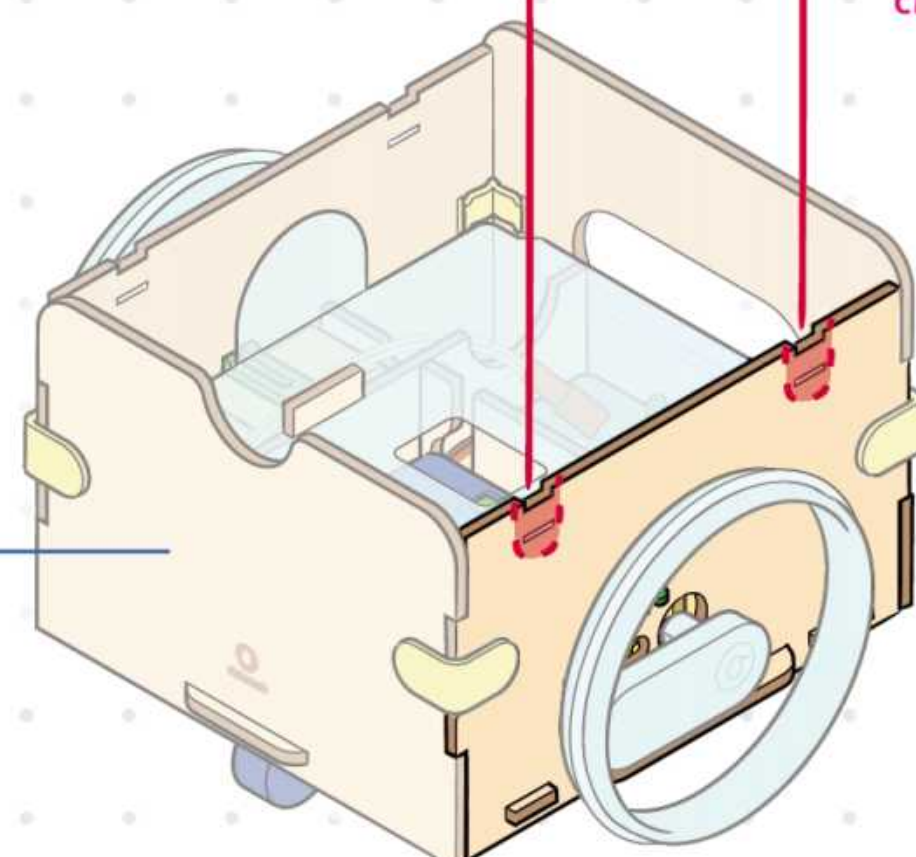
add 2 more on
the outsides of
the first clips



attach the
clips one at
a time

tip!

Hold the bot by
the body when
pushing down.

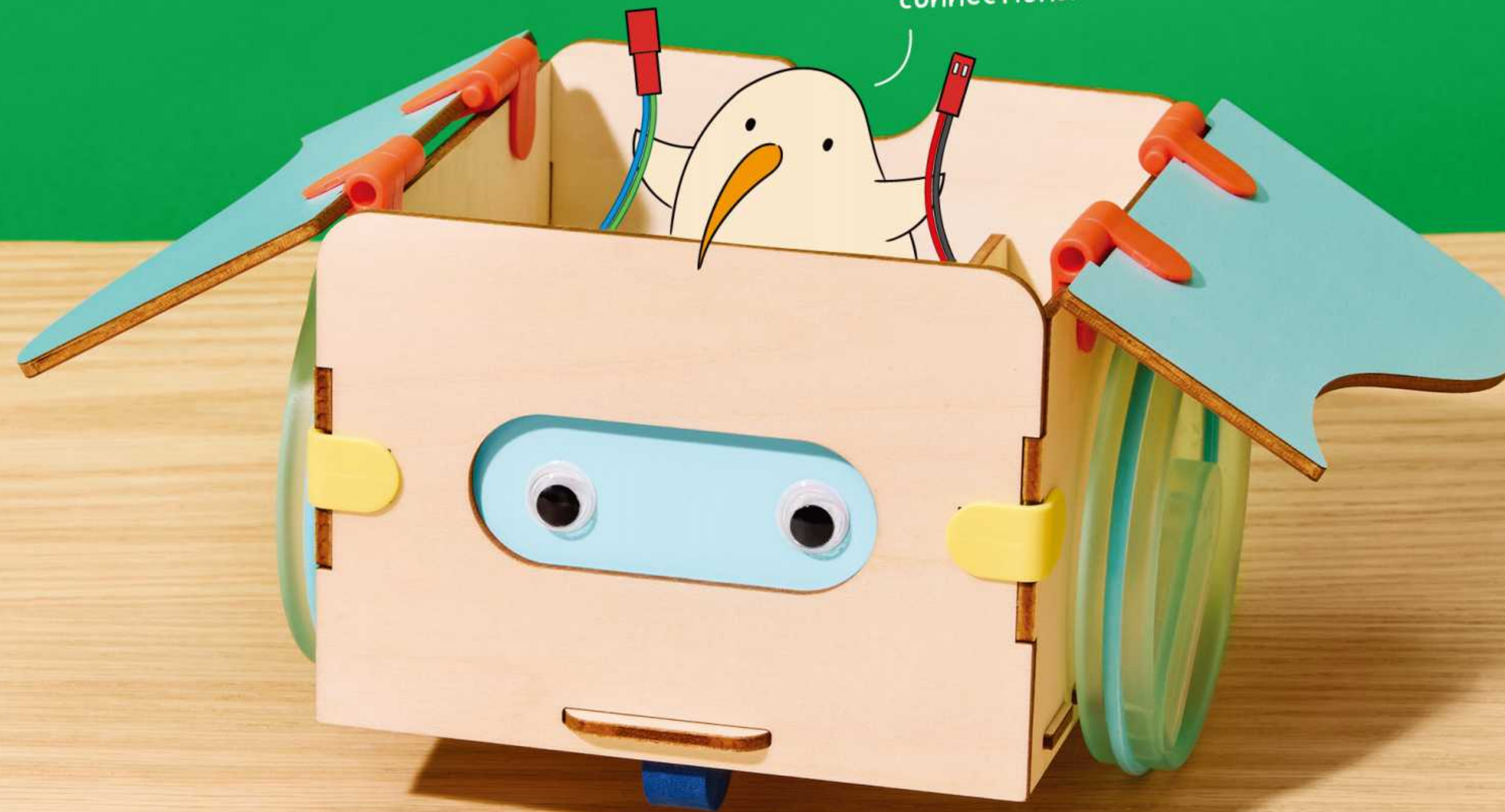


click

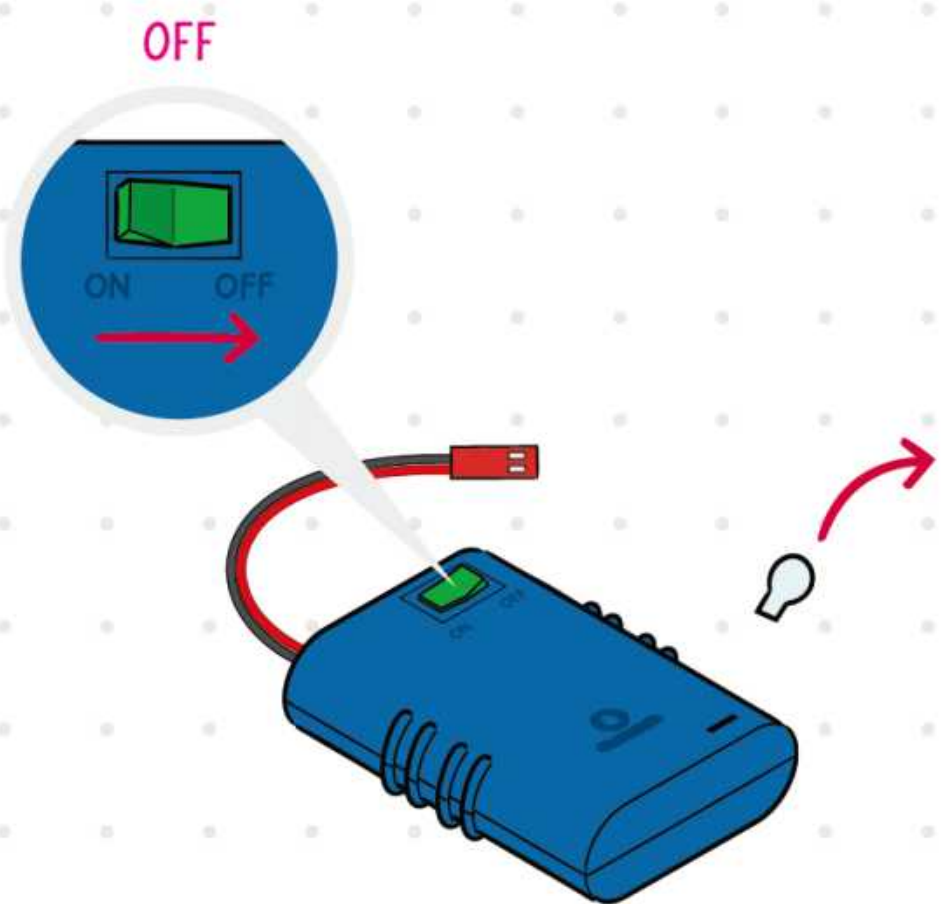
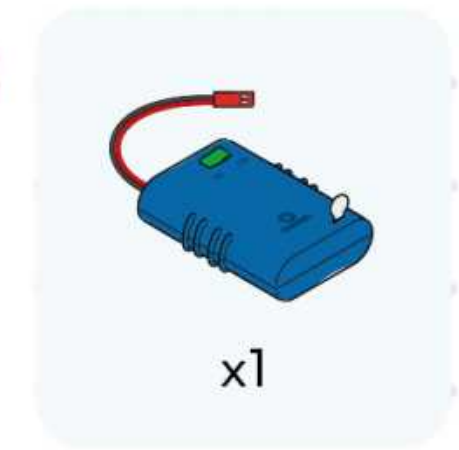
Part B

Wire it up ^{M3}

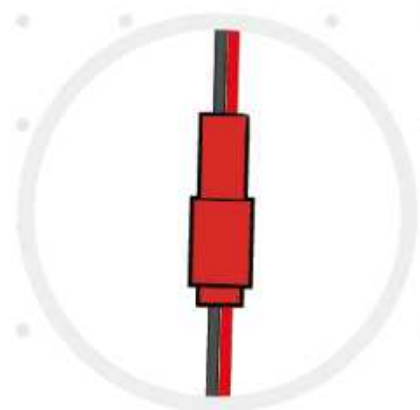
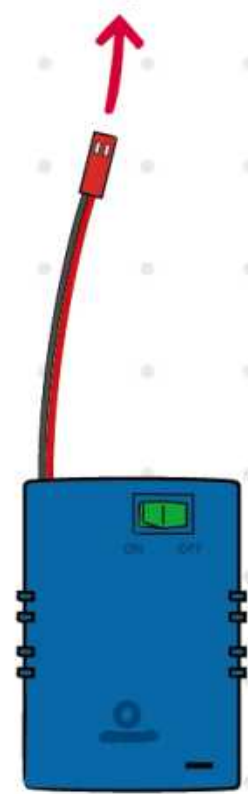
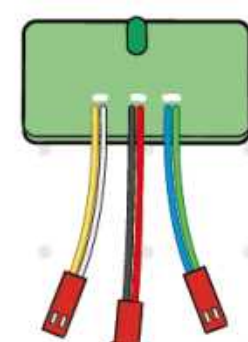
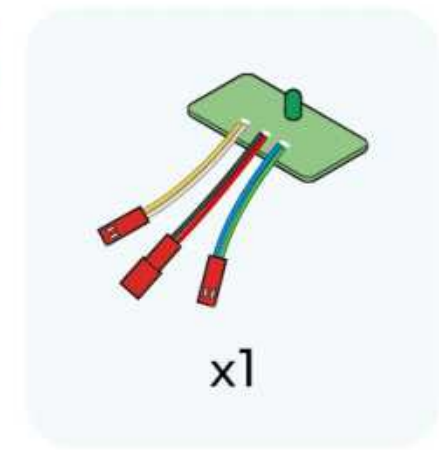
Let's make some
connections!



1

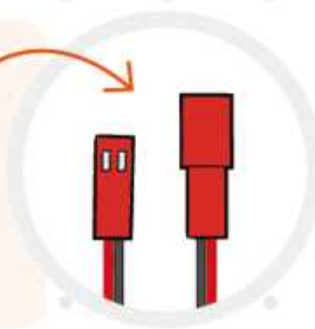


2

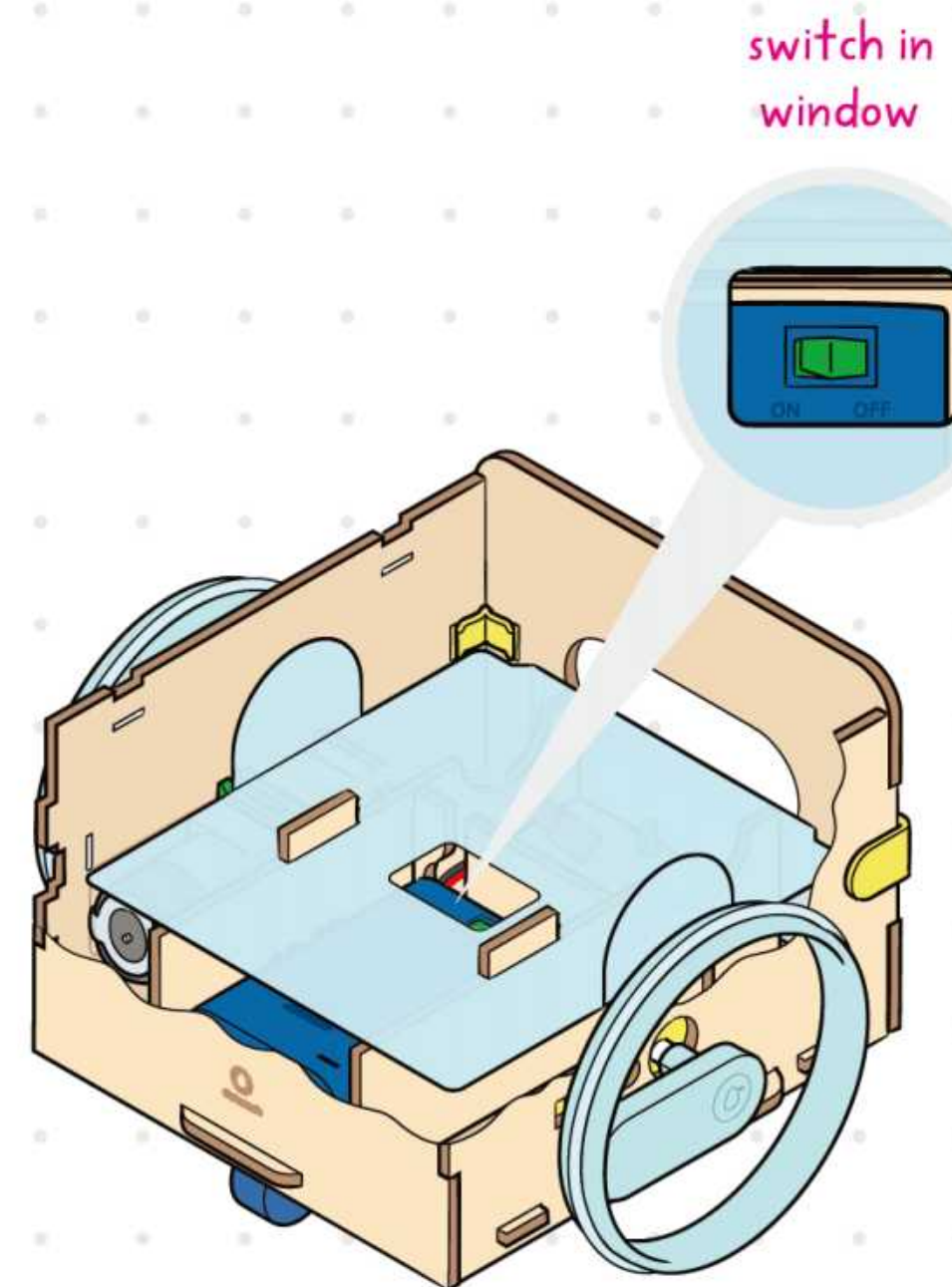
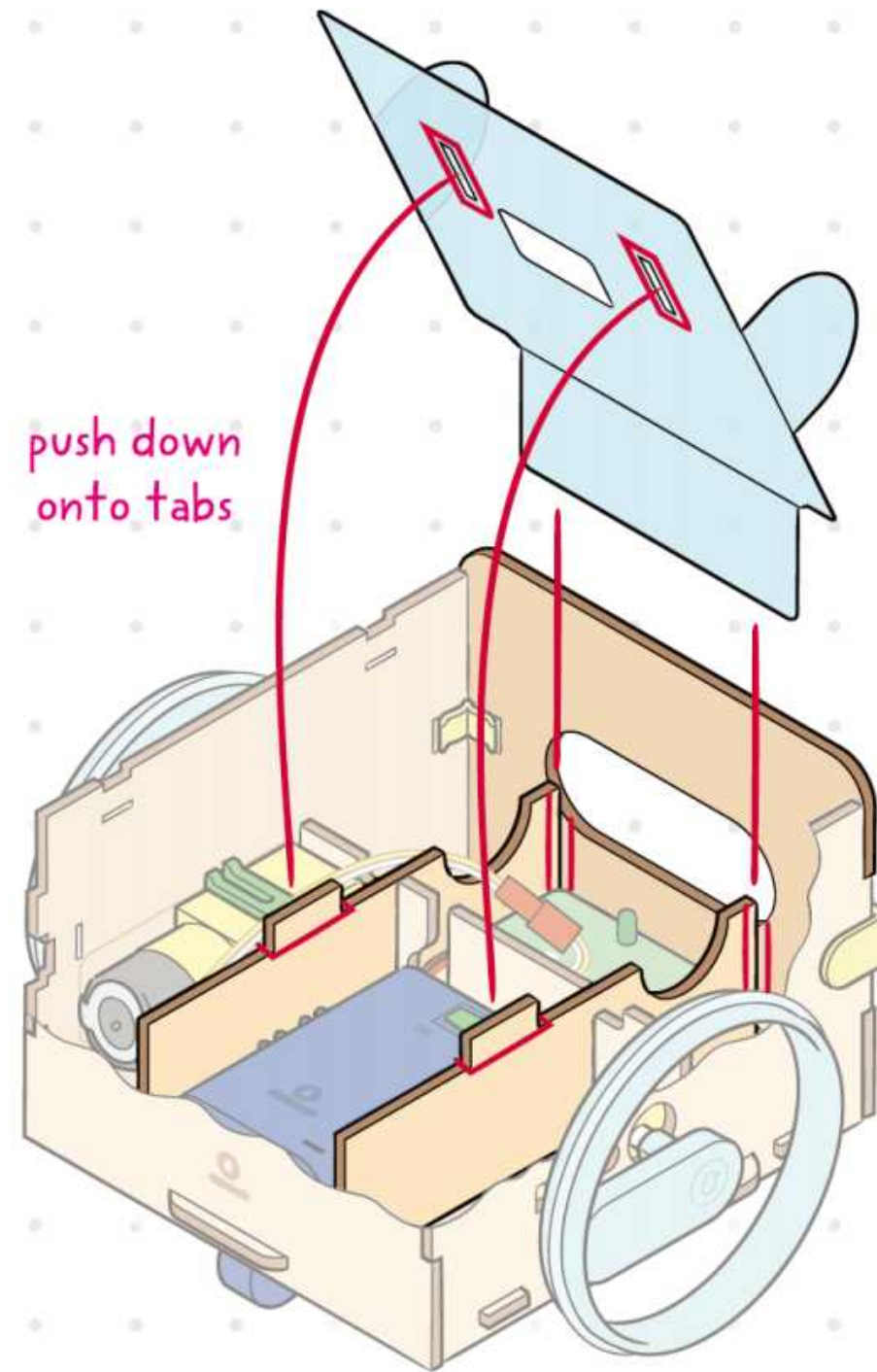


caution!

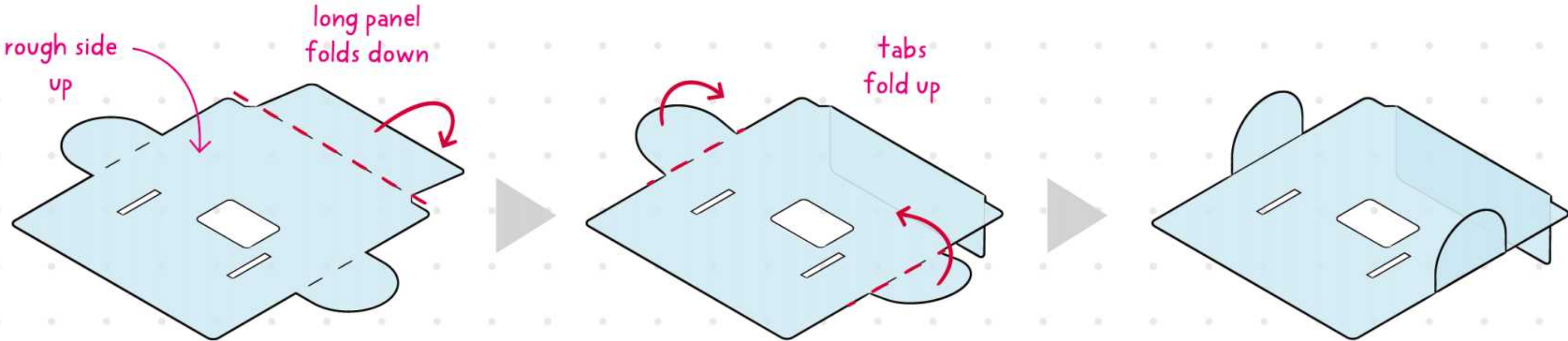
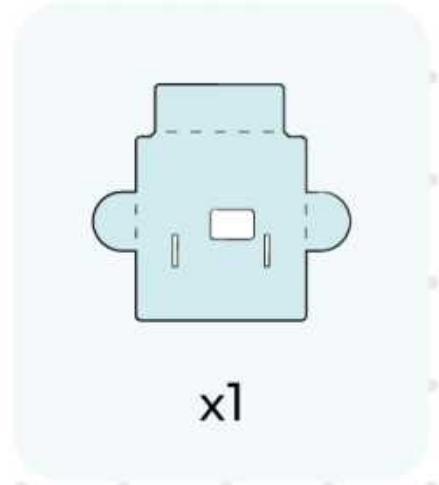
Hold the red connectors when working with wires. Don't pull directly on the wires, or they could break.



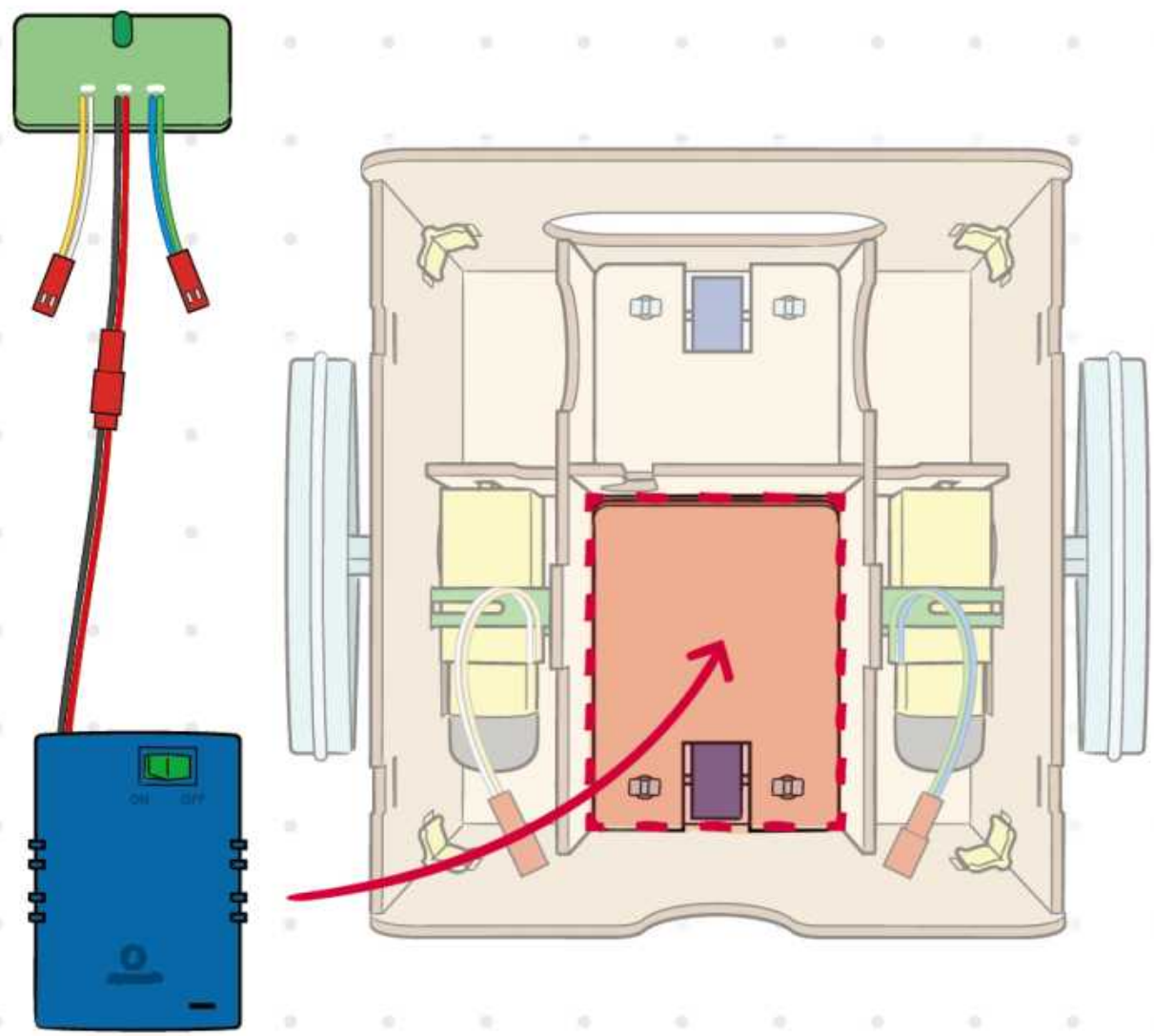
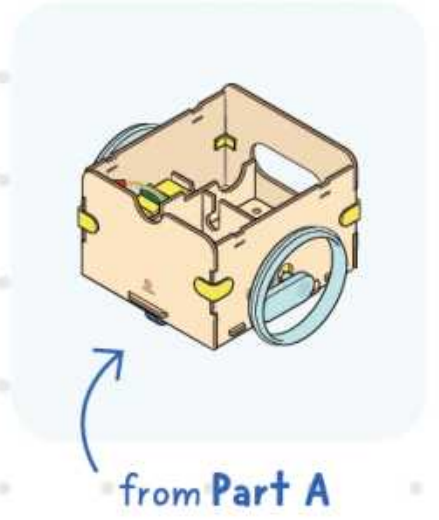
7



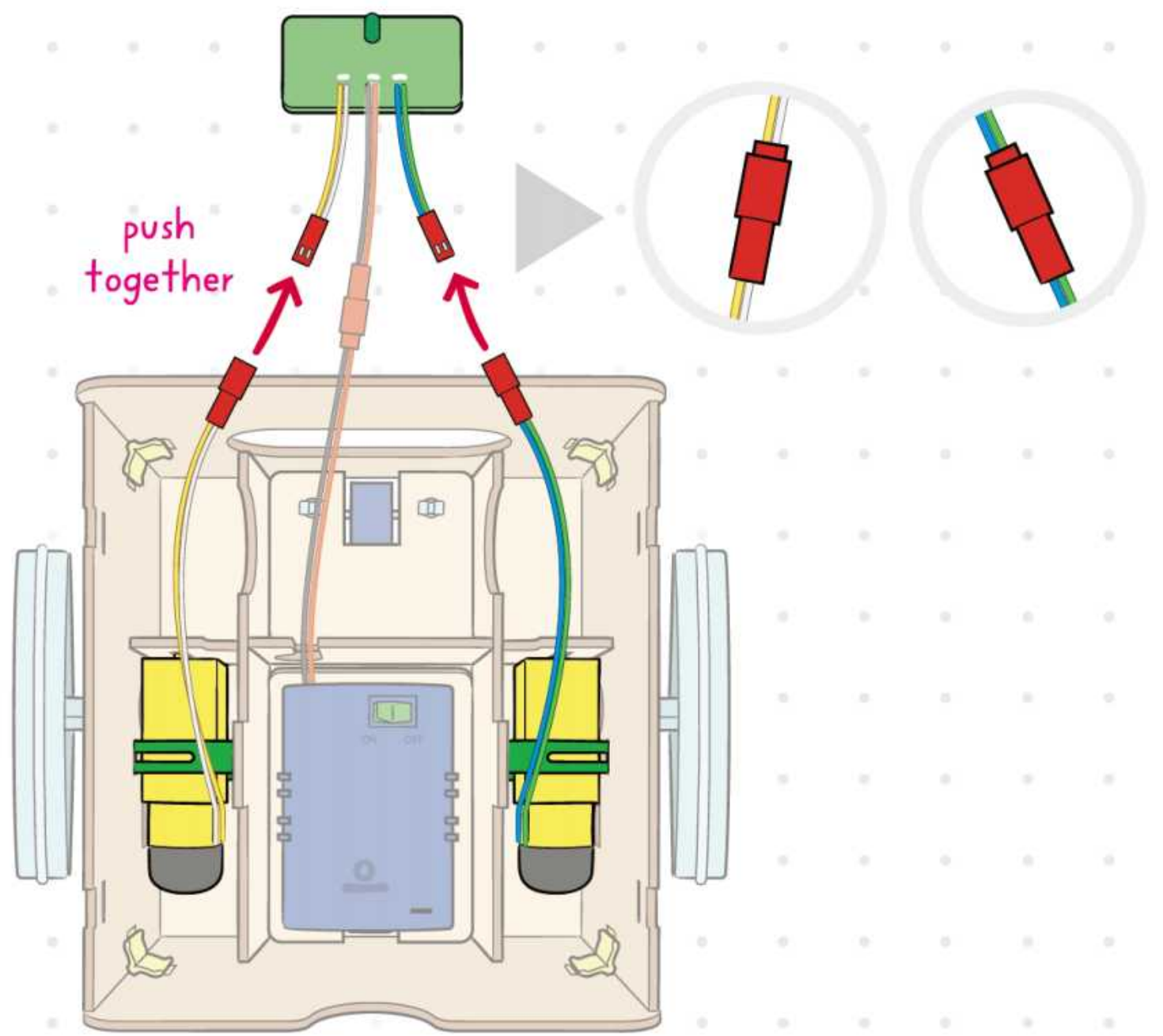
6



3



4

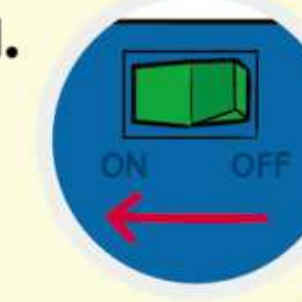




Stop & Check

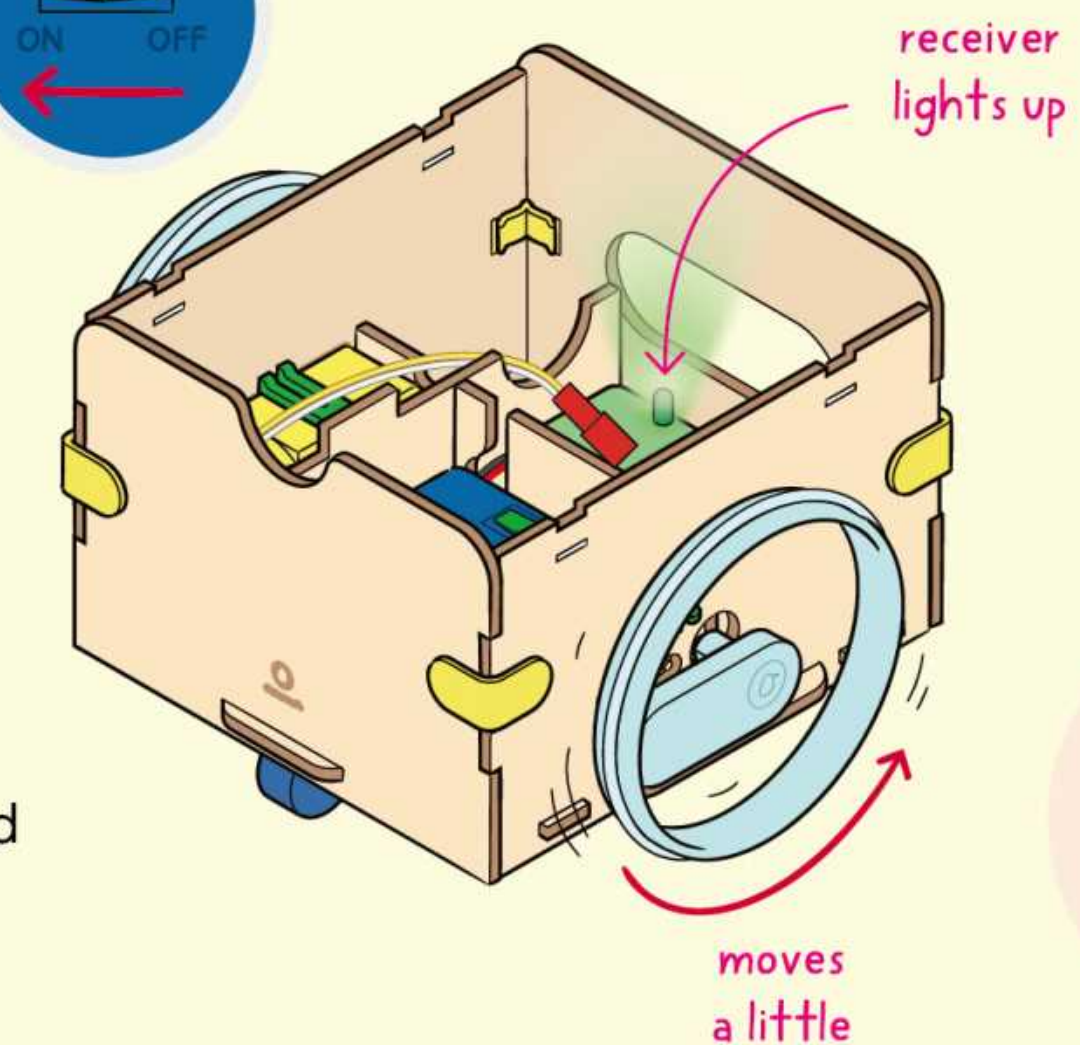
1. Turn the battery pack ON.

The receiver will light up and the wheel on Side B will move a little.



2. If your bot doesn't do either of these things, turn the battery pack OFF and make sure:

- The tab on the battery pack is pulled out.
- The battery pack and motors are fully connected to the same color wires on the receiver.



Turn the battery pack OFF before you keep building.

FCC Compliance

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.

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.

Warning: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

- A. This device complies with Industry Canada's licence-exempt RSSs. Operation is subject to the following two conditions:
- 1. This device may not cause interference.
 - 2. This device must accept any interference, including interference that may cause undesired operation of the device.

Cet appareil est en conformité avec les spécifications des normes radio (RSS) exemptés de licence d'Industry Canada.

Son fonctionnement est soumis aux deux conditions suivantes:

- 1. Cet appareil ne doit pas provoquer d'interférences.
- 2. Cet appareil doit accepter toute interférence, y compris les interférences qui peuvent causer un mauvais fonctionnement de l'appareil.