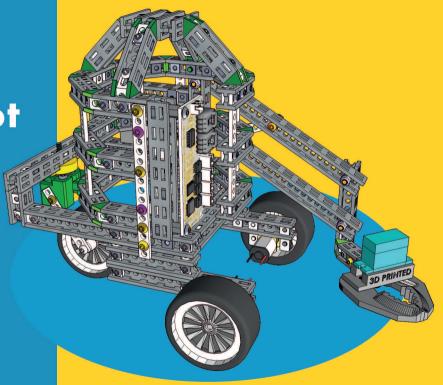


Lucas the Robot

Assembly guide

DIY APP CONTROLLED



STARTING TIPS

Inserting nuts (1)

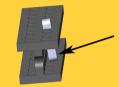
Inserting nuts (2)

Faulty threads

Tightening standoffs

Ruler









Some of the nuts are missing threads.
This is a manufacturing issue and we are working on it. In the mean time, we add few extra nuts.
We apologize for

Use the Totem Wrench Socket (Blue) to insert Nylon Standoffs used to assemble the electronics boards.

Use Beam/Bolt ruler to determine the length of beams and bolts.

It is a good idea to start every step inserting nuts into beams (if the step requires).

Use the back of the screwdriver to push in the nuts.

After entering the first slot, nuts tend to tilt. Use your thumb to push it back straight, and then again use the screwdriver to insert the nut all the way in.

For more tips, please visit the link below:

the inconvenience.

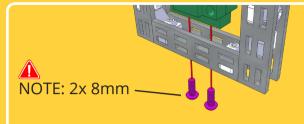
https://totemmaker.net/blog/totem-mechanics-for-beginners/

BEFORE YOU START BUILDING:



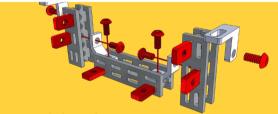
Bolt colours codes:

We have put some colours on bolts to make instructions more clear.



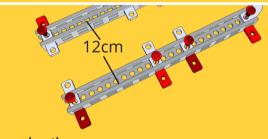
Notes for bolts other than 6mm:

When bolts that are <u>not</u> 6mm will be used, in addition to colours, extra notes are given in the instructions with lengths in mm.



6mm bolts and 6x10mm nuts:

When starting on a building step, the 6mm bolts and 6x10 nuts are coloured RED. It makes it easier to see where the new bolts and nuts are placed.



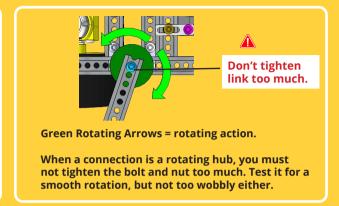
I-beams lengths.

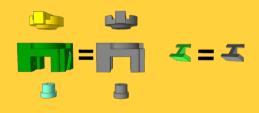
When a new Totem beam is needed in a step, the length is indicated.



Positions for nuts with #-symbol.

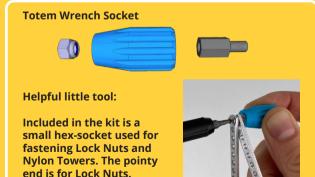
When it is helpful, the slot-number is indicated in the Totem beam. Starting from #1 and counting slots.





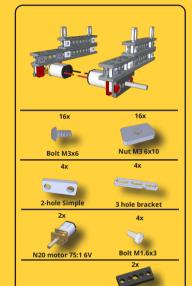
The colour of parts.

The colours of plastic part may vary. Colours are often changed on parts to make it easier to see them in the instructions pictures.

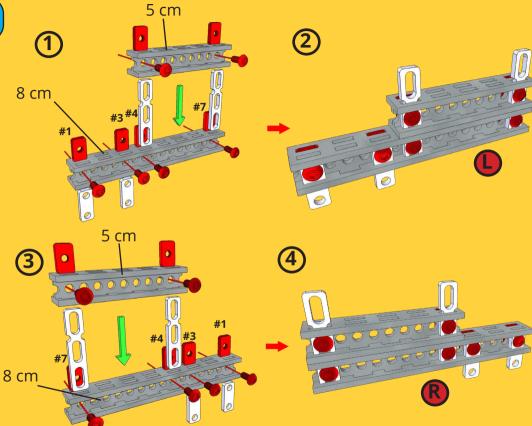


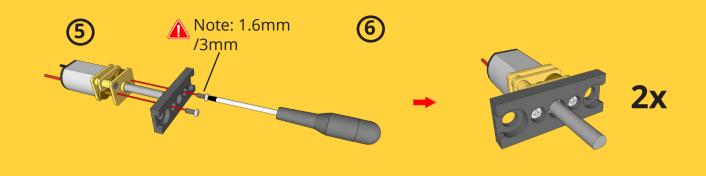
PARTS LIST:

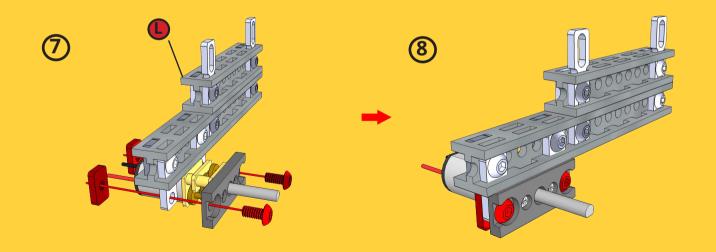


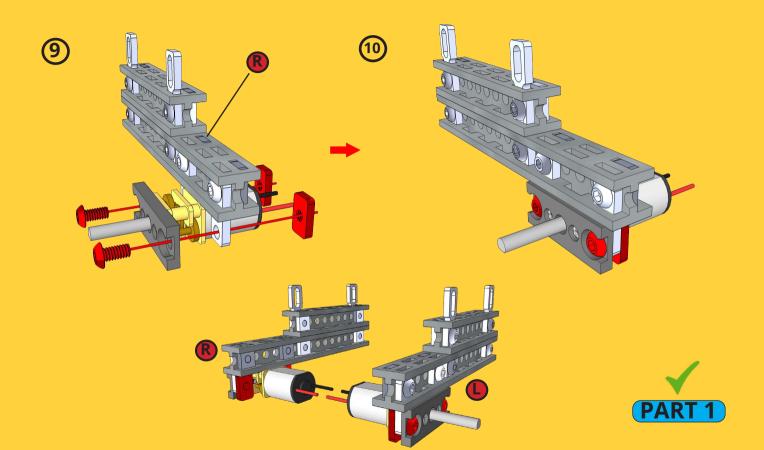


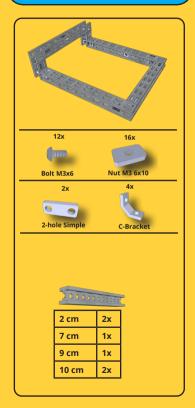
5 cm 8 cm Micro Motor bracket

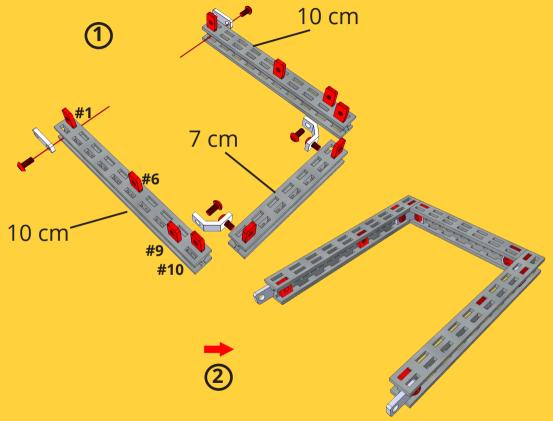


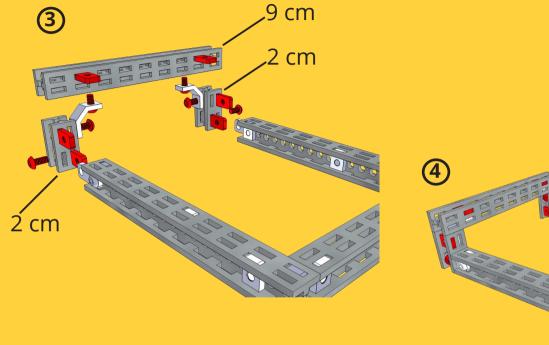


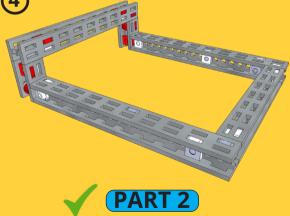


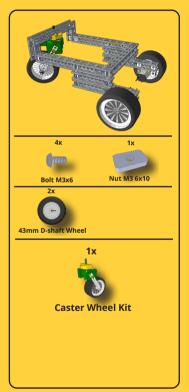


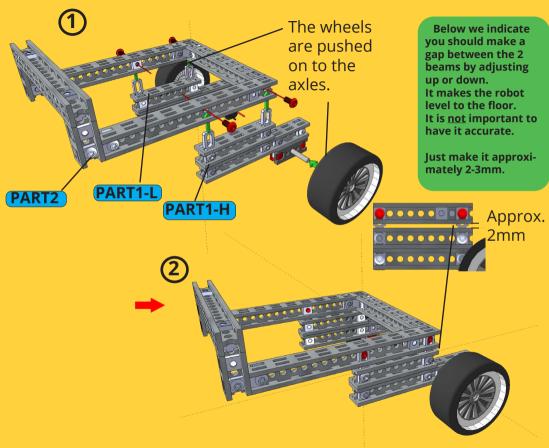








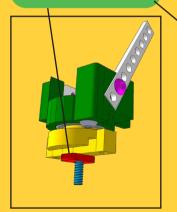






You can skip putting a beam to the caster wheel set here.

Just temporary put a 6x10mm nut there to hold it together during building the caster set.



Caster Wheel Kit:

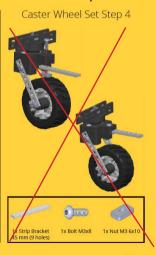
Read in the Robotics Kit Booklet in page 30 and 31 about how to build a Caster Wheel set.

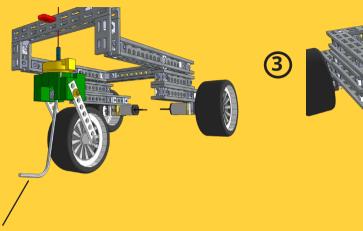
The colour green and yellow in some instructions are for clarity only, the actual colour may be different.

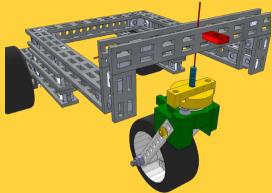












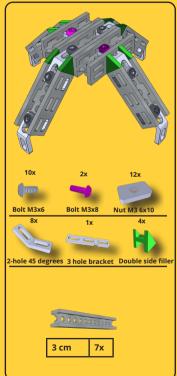
Use the included Allen key to easier tighten the bolt.

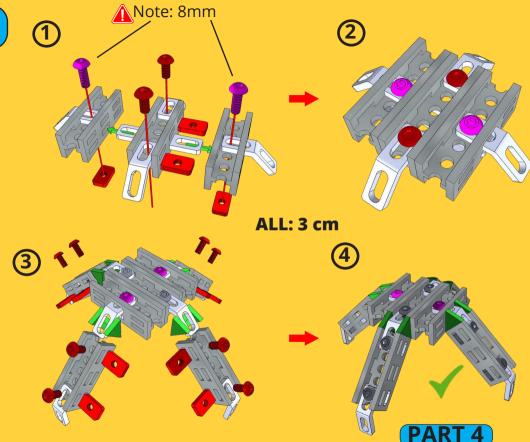


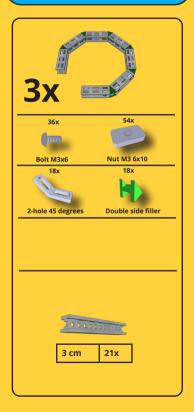


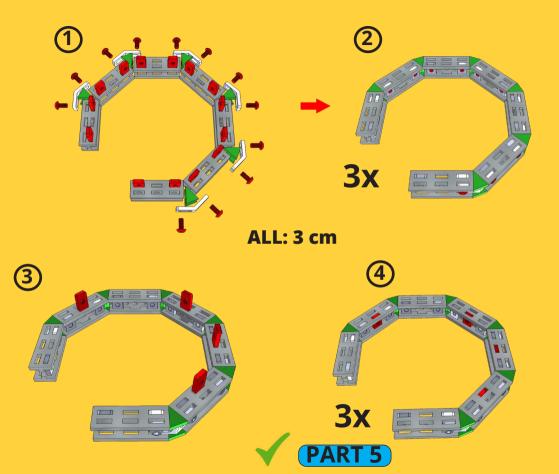


PART 4 1

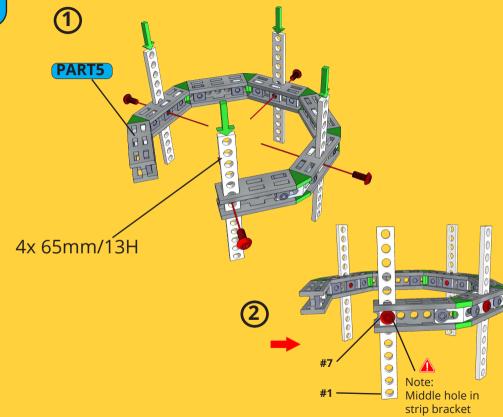


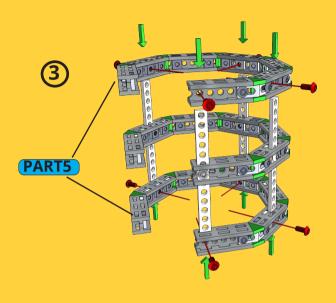




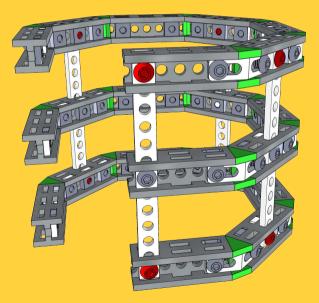


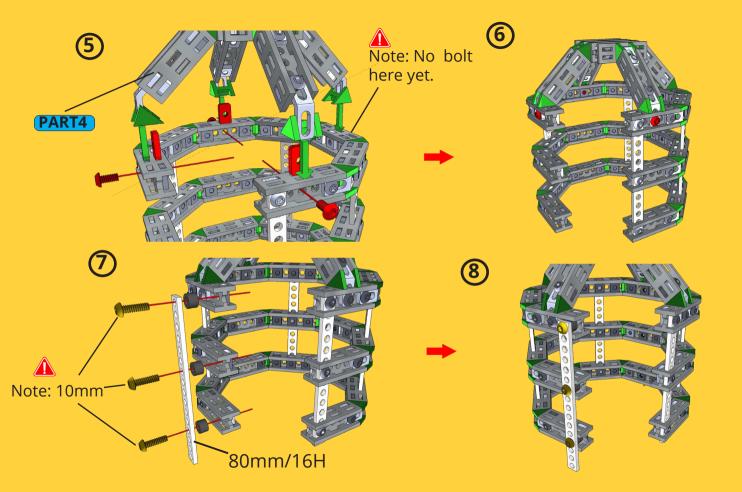


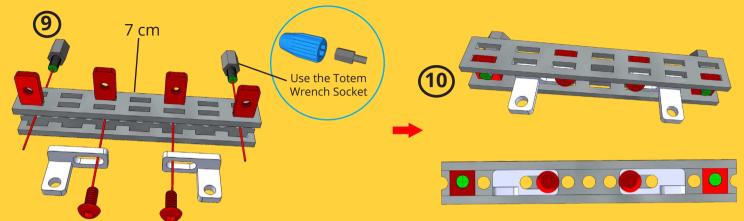


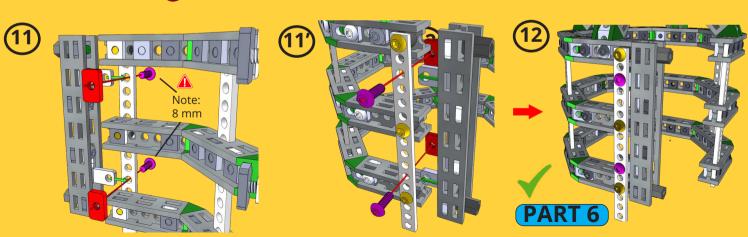


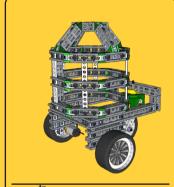








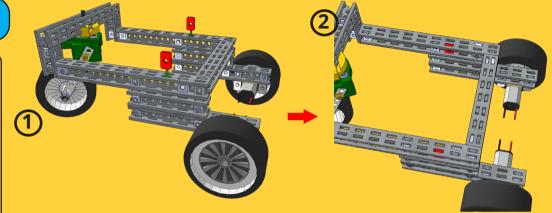


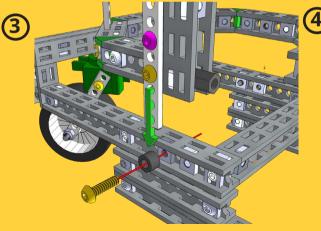


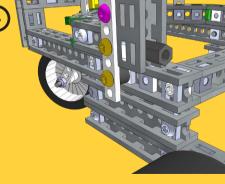
Bolt M3x10

Nut M3 6x10

Spacer Nylon 4mm

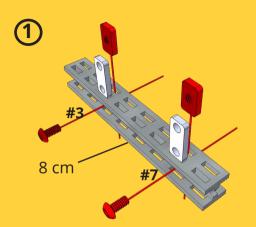


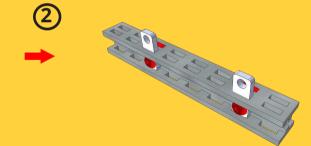


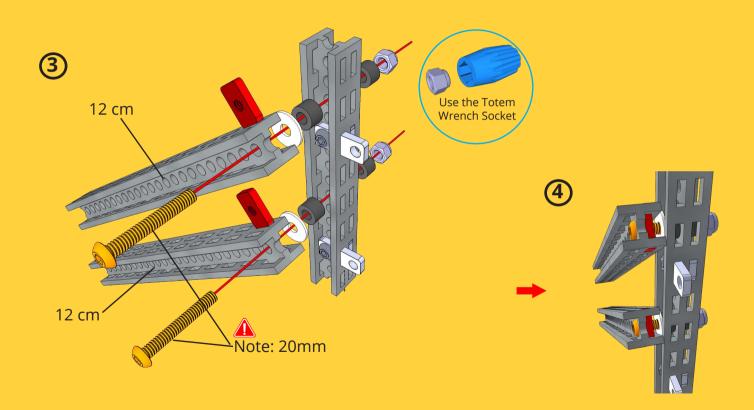


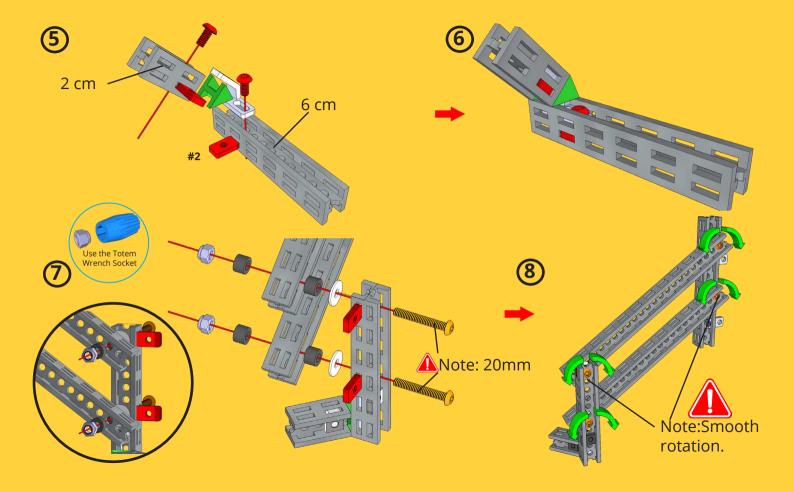


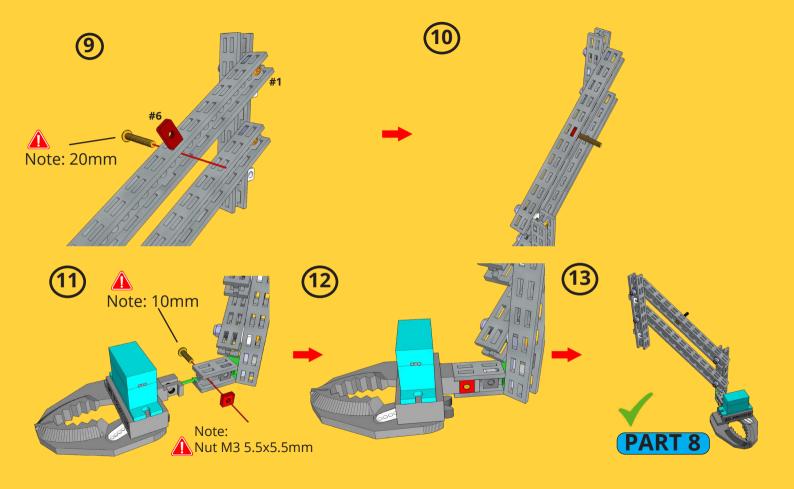




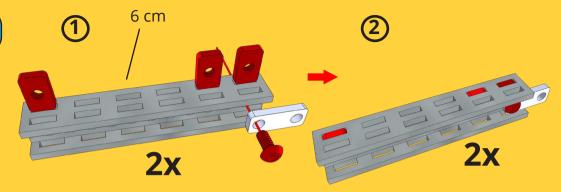


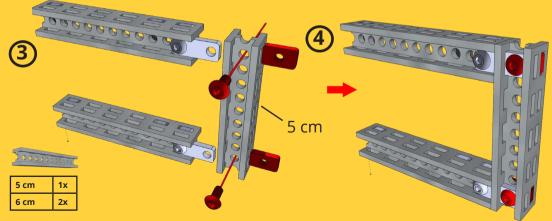


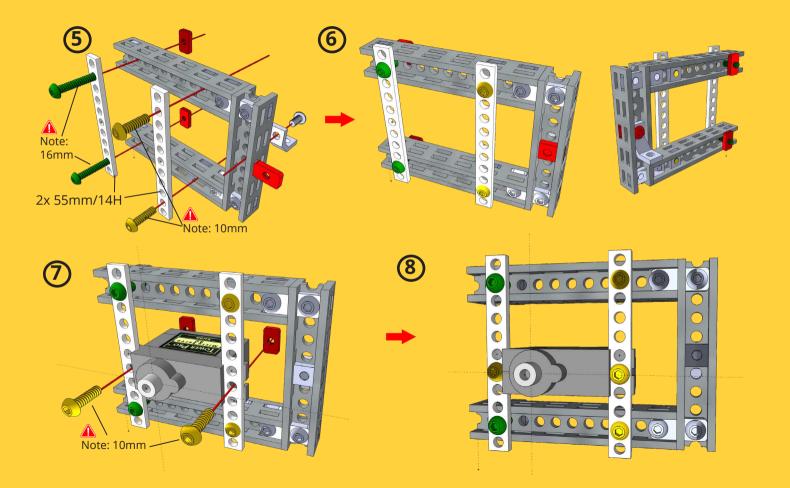


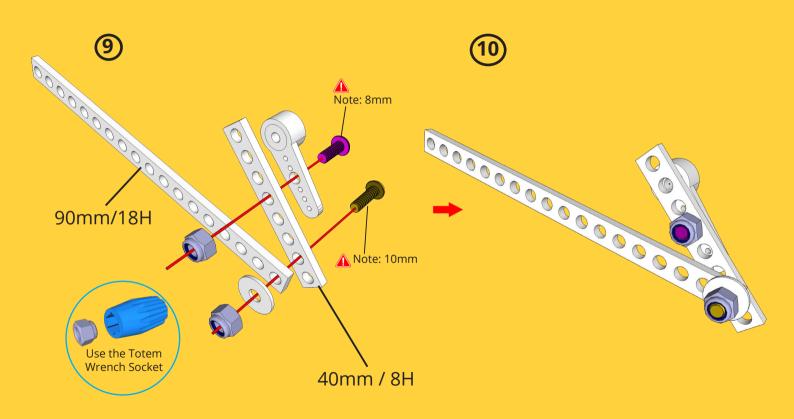




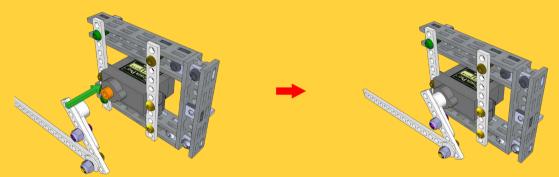




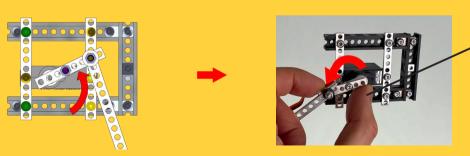




Register the servo arm.

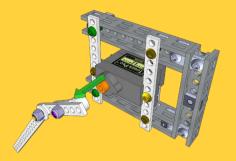


A: Put on the servo arm assembly in any position.

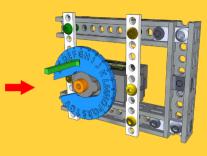


Be careful.
Don't use too
much force. Gently twist it Counter Clock-wise.

B: Manually twist the arm Counter Clockwise until it stops.



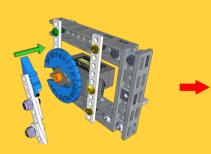
C: Temporarily take off the servo arm.



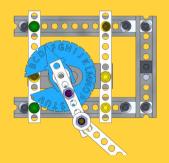
D : Slip on the Servo Arm Index Disc on to the servo.



E: Attach the Servo Arm Index Arrow on to the servo arm.



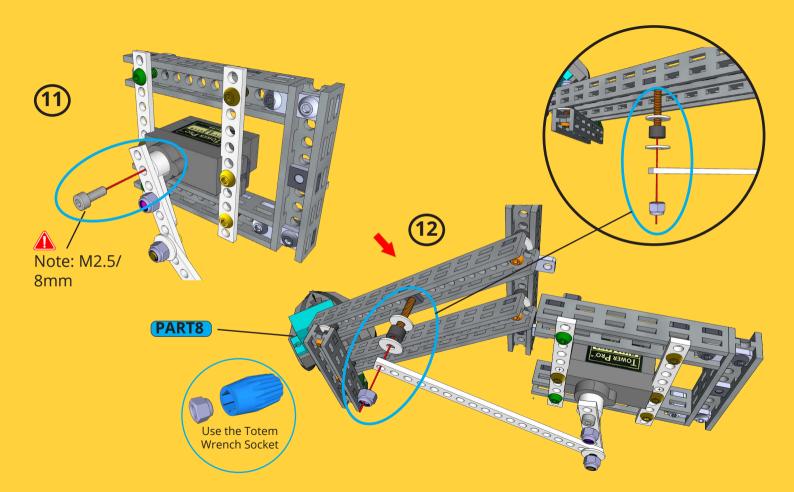
F: Put the Servo Arm with Index Arrow back on the servo matching the "E" mark on the disc.

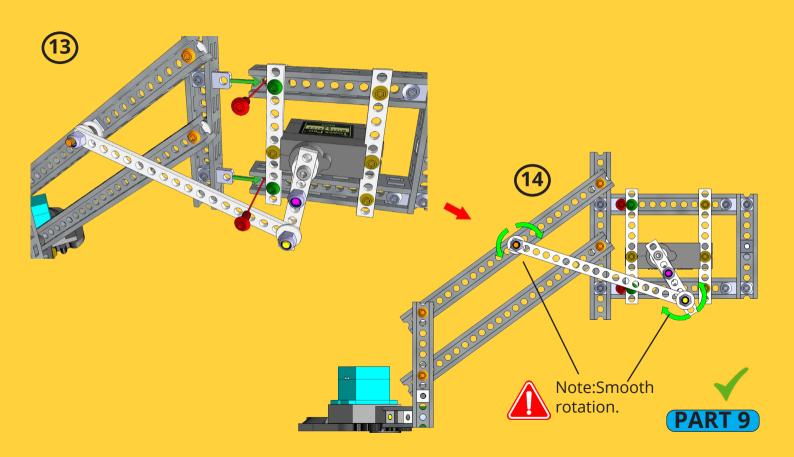


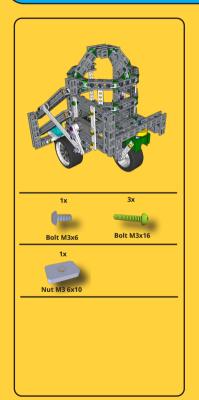
G: Here you can see the arrow points to the "E" index mark.

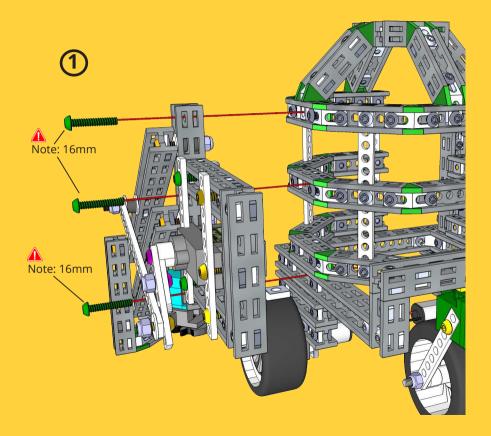


H: Take off the disc and arrow. Make sure the servo arm stays.

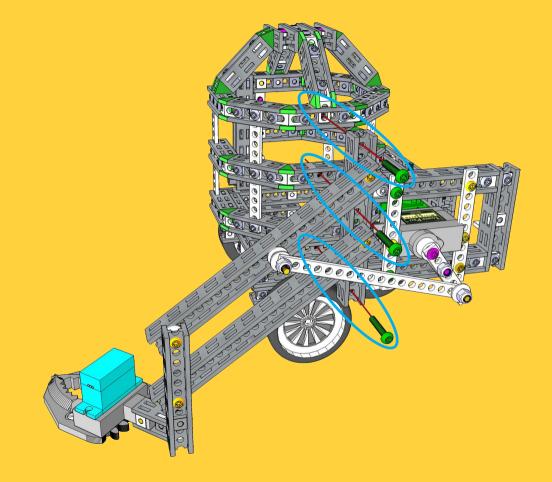


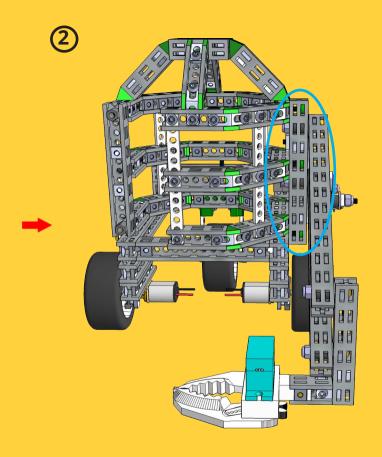




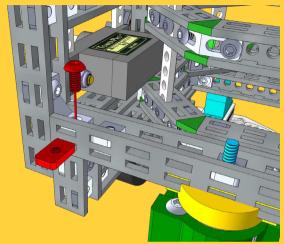




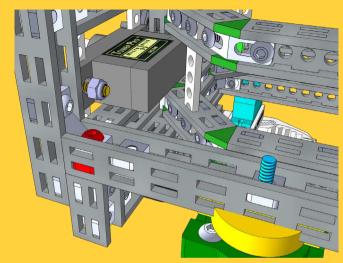


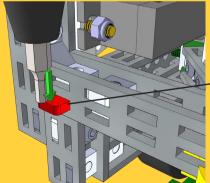












Tip:

If the nut is stuck when pushed in:

Use the screwdriver as shown and push down!

You should now be able to push it all the way in.





Polt M2v6

Bolt M3x6



X3 Controller Board

1x

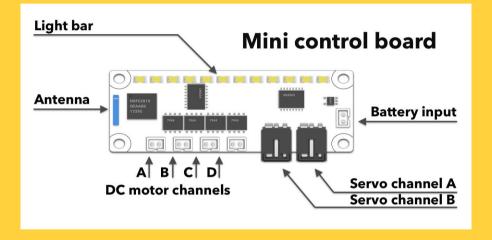


Li-lon 3.7v Battery

3-5x



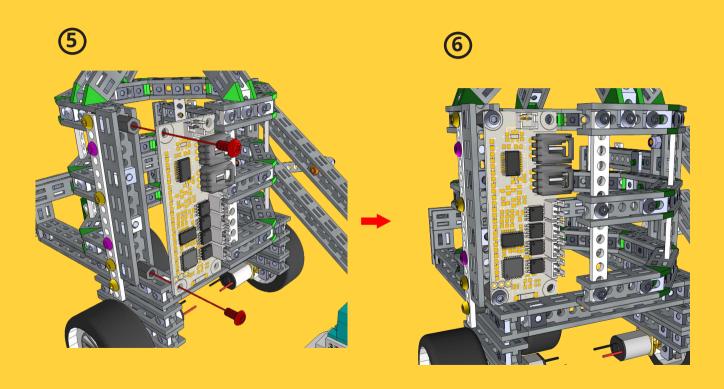
Mount the X3 controller and cable connections

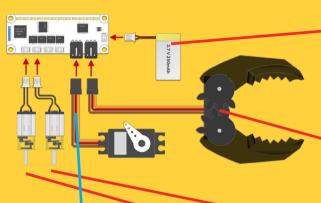


Integrated controller that has Bluetooth connection, 4 DC motor channels and 2 Servo motor channels.

More info here:

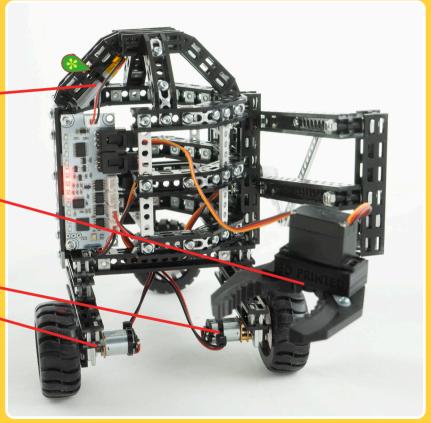
https://totemmaker.net/wiki/x3-fbi-board-set-up/

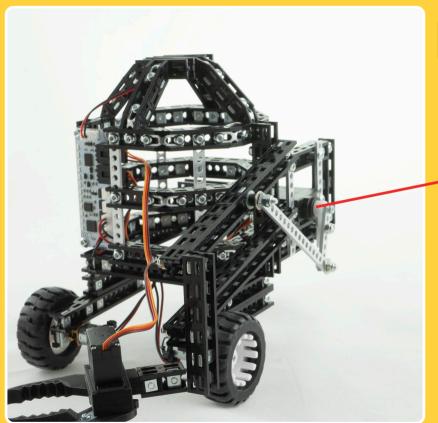


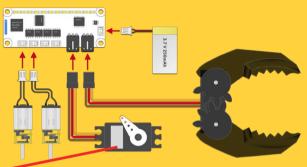


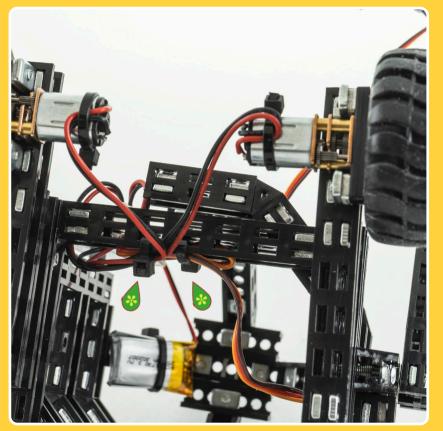
Note:
Observe the wires orientation:
Brown, Red and Yellow.













Building is finished!

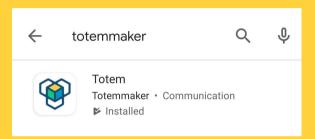
Now it is time to test your model.





HOW TO CONTROL

Download Totem app on your smartphone or tablet via App Store or Google Play.



Follow the step by step guide to connect your Ladybug to your device.



To slow down the rotation speed, press two buttons at the same time. I. e. press both Forward and Right buttons.





PRECAUTIONS: ELECTRONICALLY OPERATED PRODUCT

Do not give this product to children aged 8 or below. As with all electronic products, precautions should be observed during handling and use to prevent electric chock.

Adult supervision required.

Note to adults: to ensure that the child's play is both safe and fun, please review all operating instructions and safety rules with your child.

SAFETY WARNINGS:

- Do not pick up toy while in motion.
- Keep fingers, hair, and loose clothing away from moving parts, to avoid the injury.
- Adult supervision is required when this toy is being operated.
- If you stopped operating the toy, remember to unplug the battery, to avoid accidental operation.
- If the toy is dirty, please clean it with dry and soft cloth. Do not clean electronics.
- Do not expose the toy to high temperature, high humidity, or direct sunlight.
- Indoor use only. Do not put this product in water to avoid damaging its electronic components.
- The product is made of complex electronic circuit and electronic components, do not disassemble, or modify the circuit board.

BATTERY SAFETY INFORMATION:

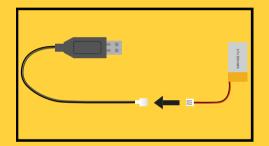
- This toy is designed to work with provided 250 mAh 3.7V LiPo battery and charger.
- Rechargeable battery must be charged by adult only.
- Do not leave charging without supervision of adult.
- There is a risk of fire and personal injury if battery is punctured, damaged or misused.
- Do not disassemble or damage the battery pack.
- Use only the supplied 250 mAh 3.7V LiPo battery. Using any other battery may damage the model.
- Use only the included USB charging cable to charge the battery.
- Please check on a regular basis the wire, plug, battery, charger, and other electronic parts on the toy. If any damage is found, please stop using the product immediately.
- Stop charging if battery becomes hot, smells, smokes or gives off strong odour.
- Never throw batteries into fire to avoid explosion or leakage.
- Check the batteries on regular basis to avoid leakage.
- Recycle or dispose of batteries according to local laws and guidelines.

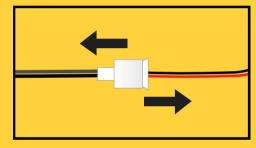
BATTERY CHARGING:



Rechargeable battery must be charged by adult only.

- The new battery pack needs to be charged before use.
- Connect the USB charging cable to 5V USB power source, such as laptop.
- Connect the battery to the charger (see picture on the left). The charger will show a red LED light when charging the battery. When the battery is fully charged, the red LED light turns off.
- To disconnect cables, hold the connectors of both cables and pull apart (see picture on the right).
- Do not attempt to overcharge the battery.





KEEP THIS INSTRUCTION MANUAL AND THE PRODUCT BOX AS IT CONTAIN IMPORTANT INFORMATION FOR FUTURE REFERENCE.

Due to the continuous product improvement, the pictures on this manual may differ slightly from the actual product. Please adhere to actual product instead.

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