

## MINI SPIDER

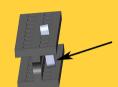
Assembly guide

6-LEG-MOVEMENT MECHANISM



#### **STARTING TIPS**

**Inserting nuts (1)** 



Inserting nuts (2)



**Faulty threads** 



**Tightening** 

standoffs

Ruler

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.

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 the inconvenience.

Push Nylon Standoff with your thumb while tightening it with the wrench.

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

For more tips, please visit the link below:

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

#### **PART LIST**



1x Board 30x100



2x Bolt M3x16



6x Strip Bracket 60 mm



10x Nylon Spacer 4 mm



1x Battery Charger



10x Beam 90 mm



4x Bolt M3x20



4x Nut M3 5.5x5.5



2x N20 Motor



1x Mini Control Board



5x Bolt M1.6x3



2x Bolt M3x25



34x Nut M3 6x10



2x N20 Motor Hub



1x Mini Screwdriver



30x Bolt M3x6



2x L-Twisted Bracket



14x Lock Nut M3



2x Mini DC Motor Bracket



1x Totem Screwdriver



4x Bolt M3x8



2x L-Twisted Mirror Bracket



4x Nylon Nut M3



2x Zip Tie



6x Bolt M3x12



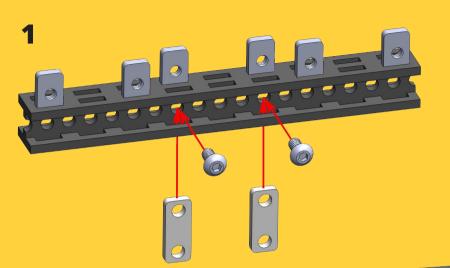
4x Nylon Standoff M3x8

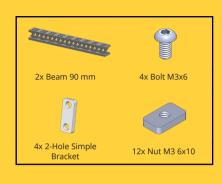


1x Rechargeable Battery



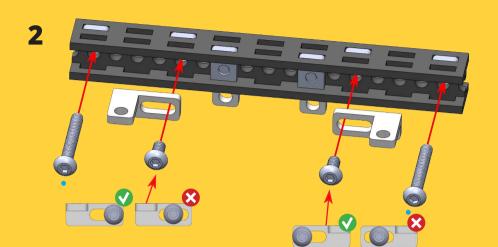
1x Totem Wrench

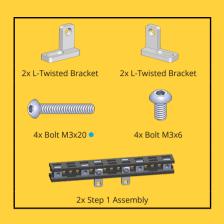




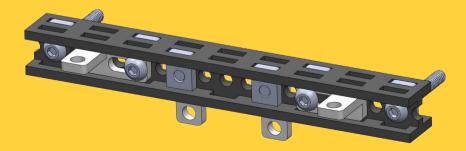
Repeat this step twice.

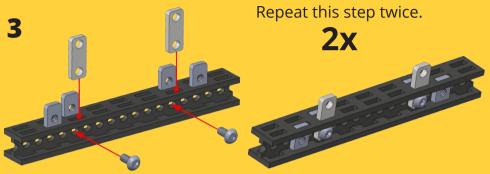


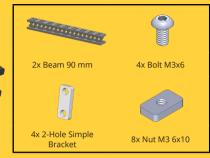


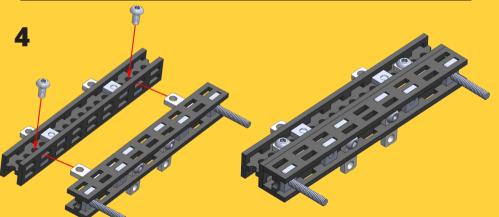


Repeat this step twice.



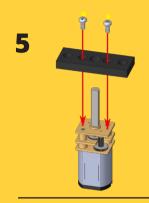








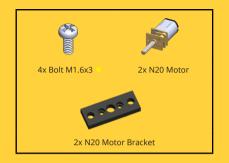
Repeat this step twice.

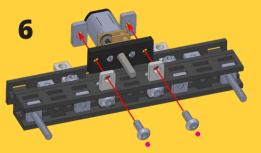


Repeat this step twice.

**2**x







Make sure motor cables go on top

Use Mini Screwdriver

for this step.



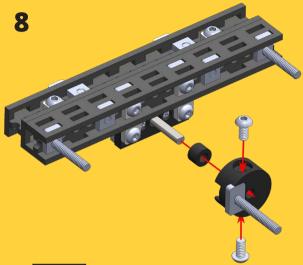


Repeat this step twice.

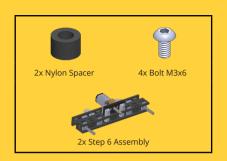




Repeat this step twice. **2x** 



Prepare N20 Motor Hub: screw bolts half way in before placing hub on the shaft of motor.



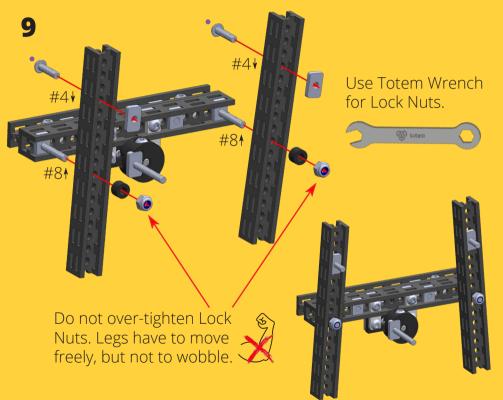
Repeat this step twice.

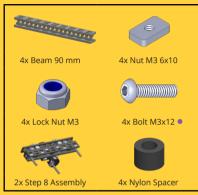




One of the bolts must hit the flat side of the shaft. Tighten both bolts evenly to keep the hub straight.







# indicates number of slot.

indicates counting direction.

Repeat this step twice.





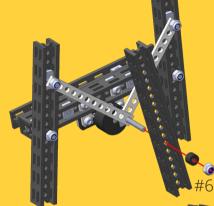


In steps 10, 11, 12, and 13 assembly for each side is slightly different (mirrored).

Use Totem Wrench for Lock Nuts.

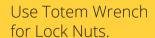




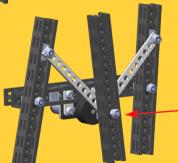




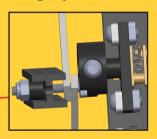


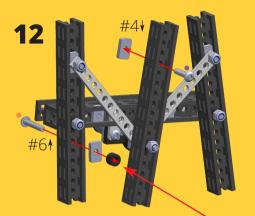


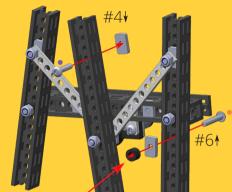


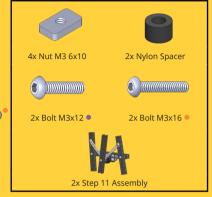


Do not over-tighten Lock Nut. Beam musty be slightly loose.







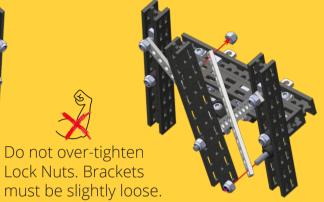






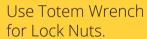






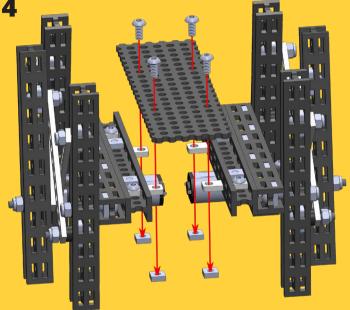




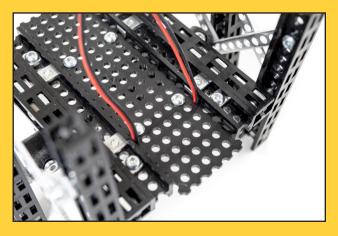


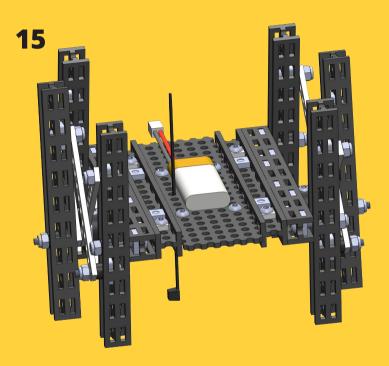




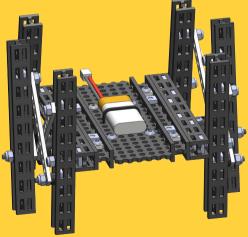




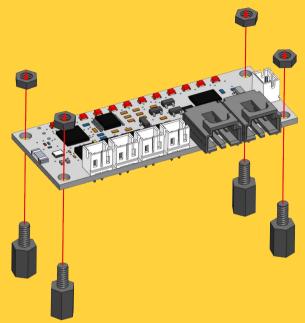






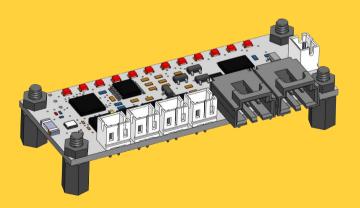


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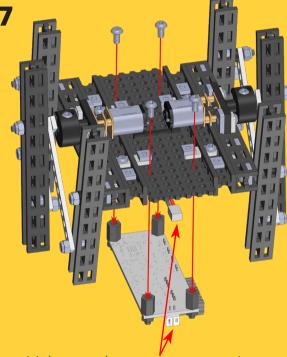


Use fingers only to tighten Nylon Standoffs and Nylon Nuts.





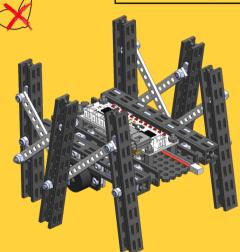
**17** 

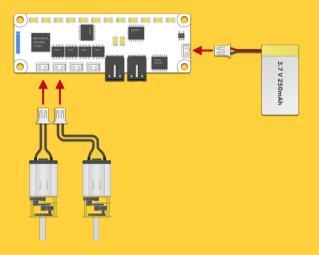


Make sure battery connector is on the same side as battery cable. Flip the model (motors up).

Do not use much force when tightening Bolts into Standoffs.





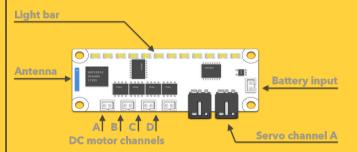


#### **Mini Control Board**

**Light Bar** – to indicate the battery charge level. Changes lights when successfully connected to the app.

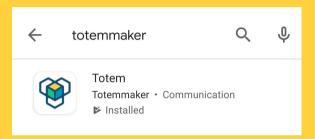
Up to 4 DC motor channels.

Up to **2 Servo motor channels**.



#### **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 Mini Spider to your device.



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



Voilà! Your Mini Spider is now alive and ready to play.

Mini Spider walks best on smooth surfaces like your desk top or floor.





## 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 mechanism, 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:**

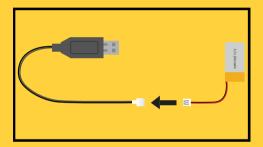
- This toy is designed to work with provided 250 mAh 3.7V LiPo battery and charger.
- Rechargeable battery must be charged by adult only.
- Do not leave charging without supervision of adult.
- There is a risk of fire and personal injury if battery is punctured, damaged or misused.
- Do not disassemble or damage the battery pack.
- Use only the supplied 250 mAh 3.7V LiPo battery 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.

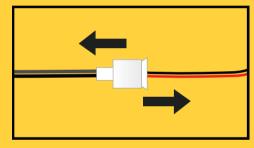
#### **BATTERY CHARGING:**



#### 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 1). 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 2).
- Do not attempt to overcharge the battery.





KEEP THIS INTRUCTION 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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