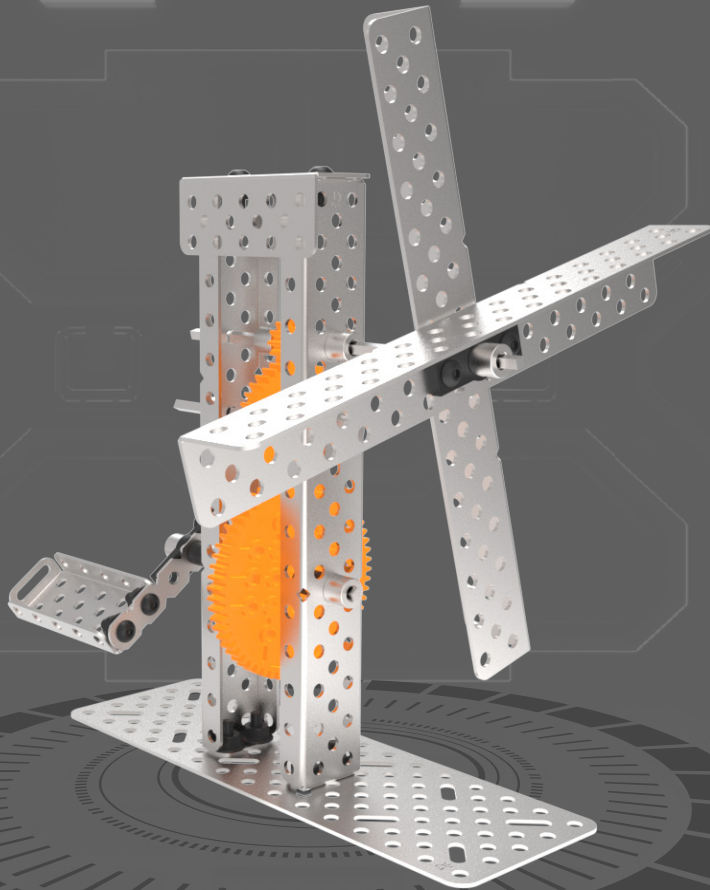
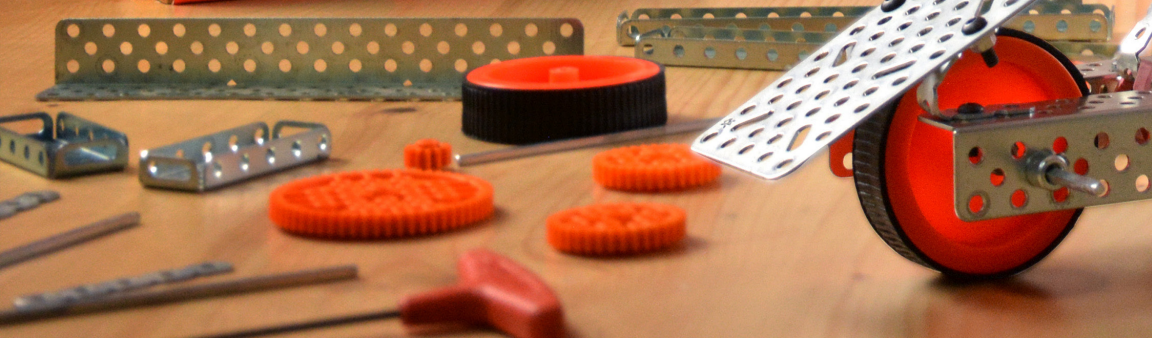


ROBOTICS EXPLORER

Start your Robotics Journey !



**“I don’t dream
of success, I work
towards it!”**



Sneak peak

Make the most out of your kit	04
Innovator's oath	06
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Make the Most Out of Your Kit

Innovate - - - - -



Take the Innovator's Oath

Take the innovator's oath mentioned on page 6 and understand what it means to be an innovator.



Learn using Manual

Follow detailed instructions in the manual and learn how to build exciting robots with your kit.



Build, Code & Control

Build innovative projects using your kit, and control the Robots using Avishkaar Remote and Code using Avishkaar Maker Studio.



Join Let's Avishkaar

Join our FB community - connect with innovators and get latest updates on webinars.



Upload Projects

Upload projects on www.avishkaar.cc and share them with innovators globally.



International Competitions

Participate in weekly, monthly and annual competitions and win glory globally.



Innovator's Oath

Take the Innovator's Oath below to pledge yourself to lifelong commitment towards Innovation and Problem Solving. Share a photo on the Let's Avishkaar FB Community.

I (write your name) _____

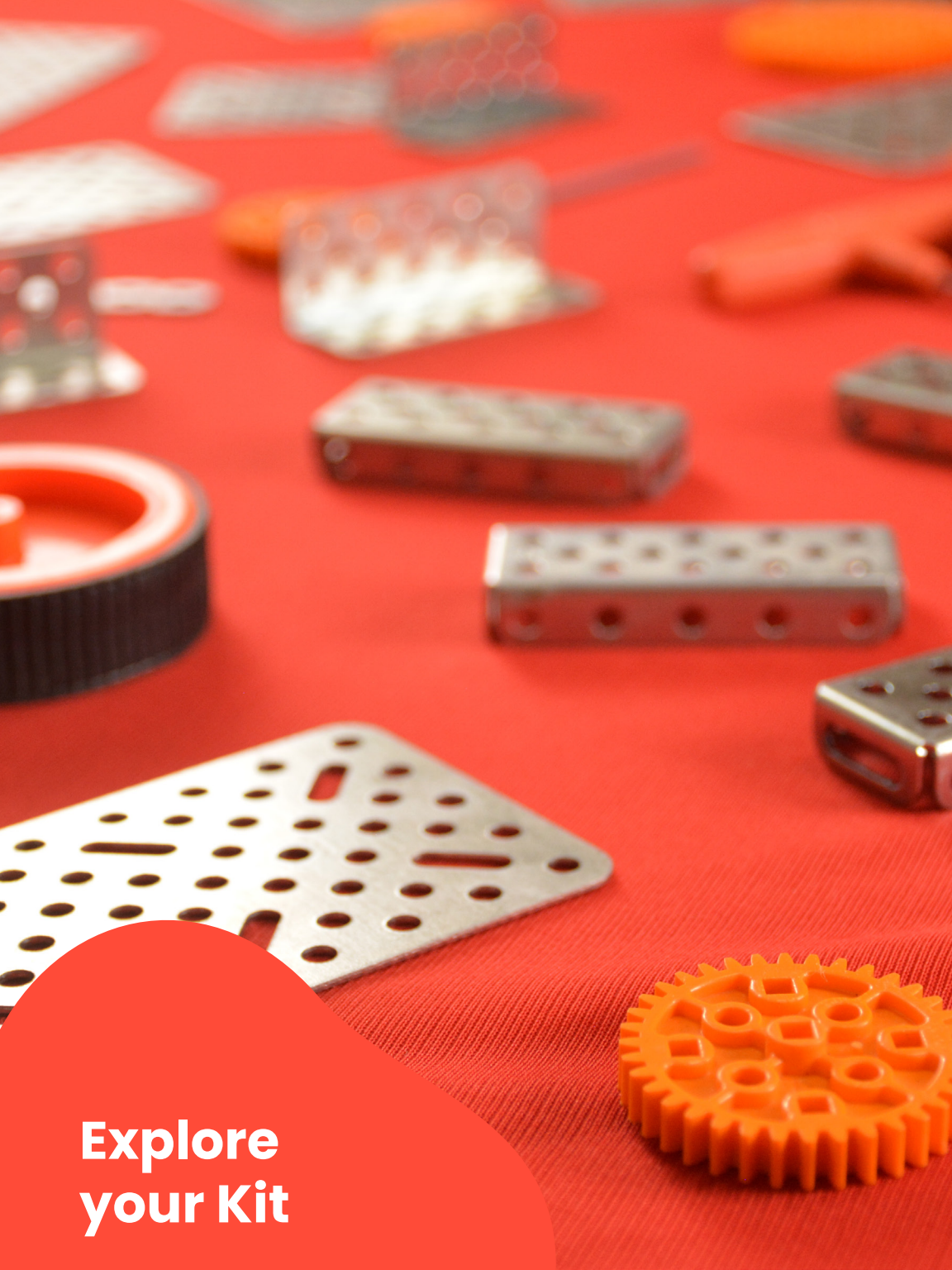
*solemnly swear that, since I am
now on the path of innovation,*

*I will not give up until my
innovation, my project is ready.*

*I will hone my skills and tools
and use them well. Innovation
and I will be inseparable.*

*I will always share my
innovations with other
innovators and learn with them.*

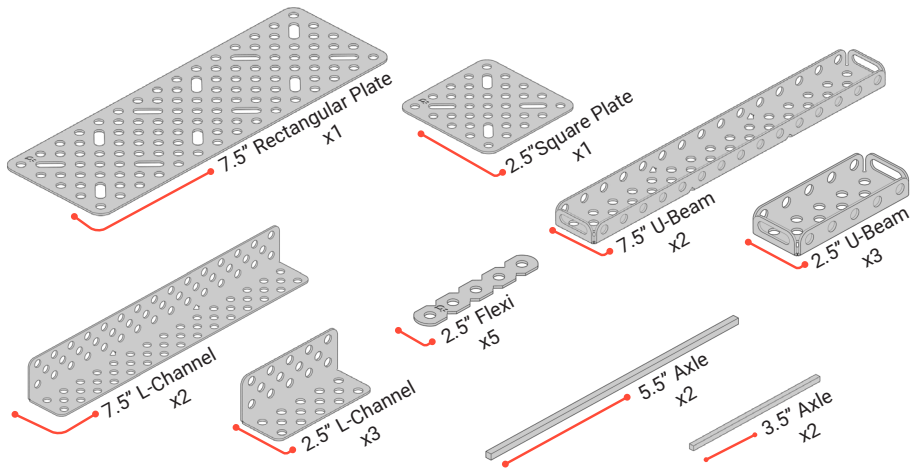
Your Signature



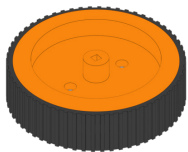
**Explore
your Kit**

Armour Check

Metal Parts



wheels and gears



Tools





Fillers
x11



Axle Locks
x16



12mm Bolt
x31



Nuts
x31



Big Rubber
Bands
x2



Small Rubber
Bands
x2

Basics of Building

Let's understand some basics of building

Tightening Screws

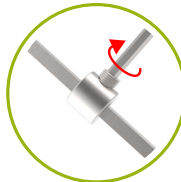
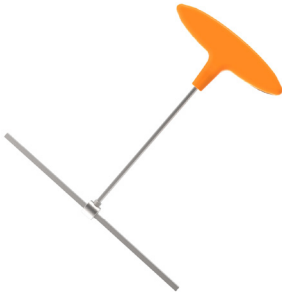


Tighten
(Rotate Clockwise)

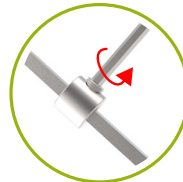


Loosen
(Rotate Anti-Clockwise)

Tightening Axle Lock

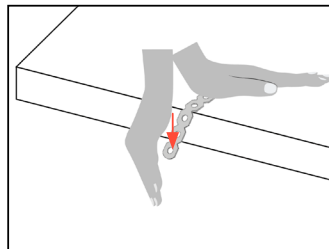
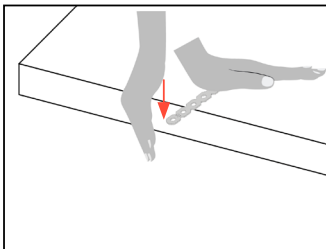


Tighten
(Rotate Clockwise)

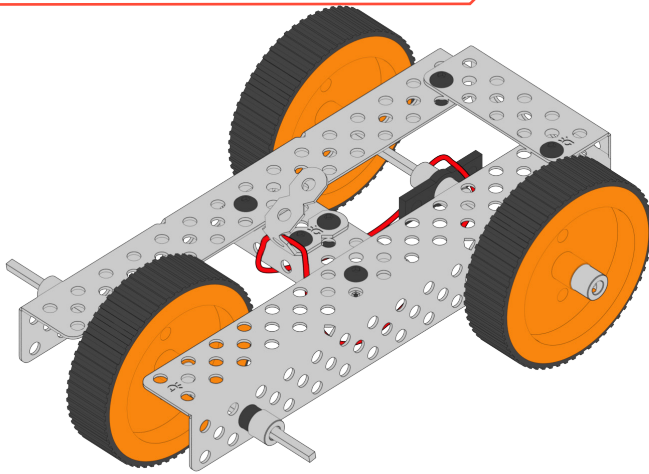


Loosen
(Rotate Anti-Clockwise)

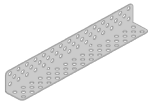
Flexi Bending



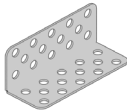
Project 1: Car



What will you need?



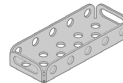
7.5"
L channel
x 2



2.5"
L-Channel
x 1



2.5"
Small Flexi
x 1



2.5"
U-Beam
x 1



5.5" Axle
x 2



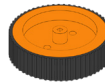
fillers
x 4



Axle lock
x 8



3-Hole
Connectors
x 1



Small Wheel
x 3



Big Ruber Band
x 1

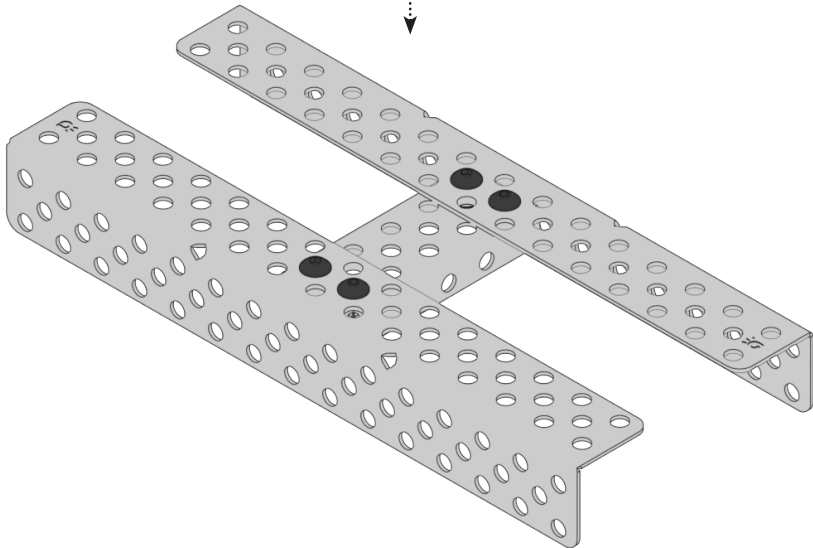
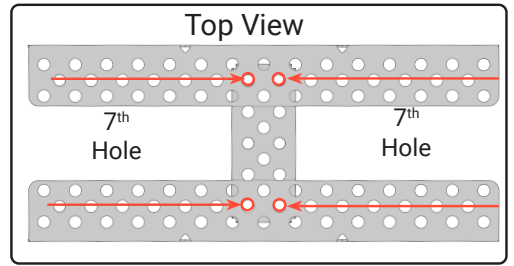
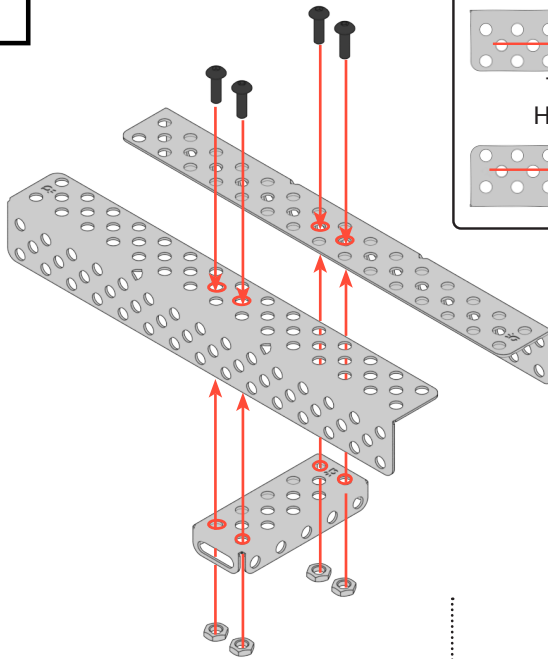


12mm Bolts
x 8

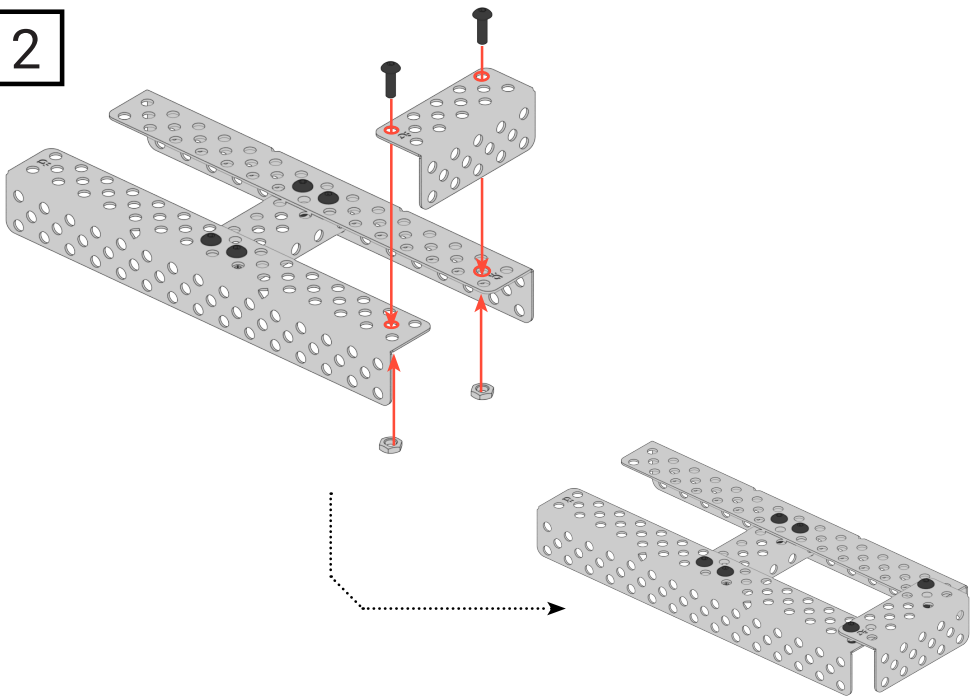


Nuts
x 8

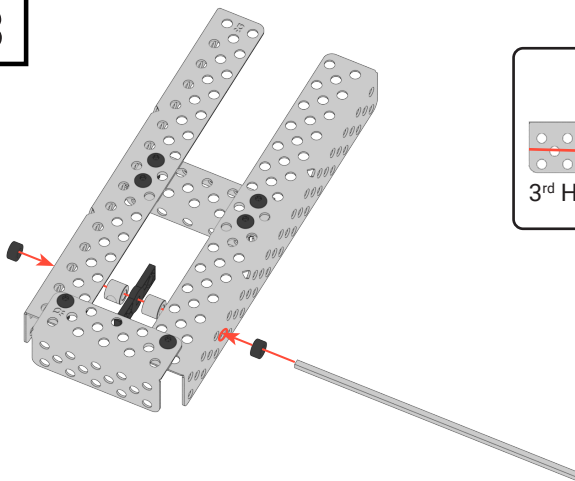
1



2



3



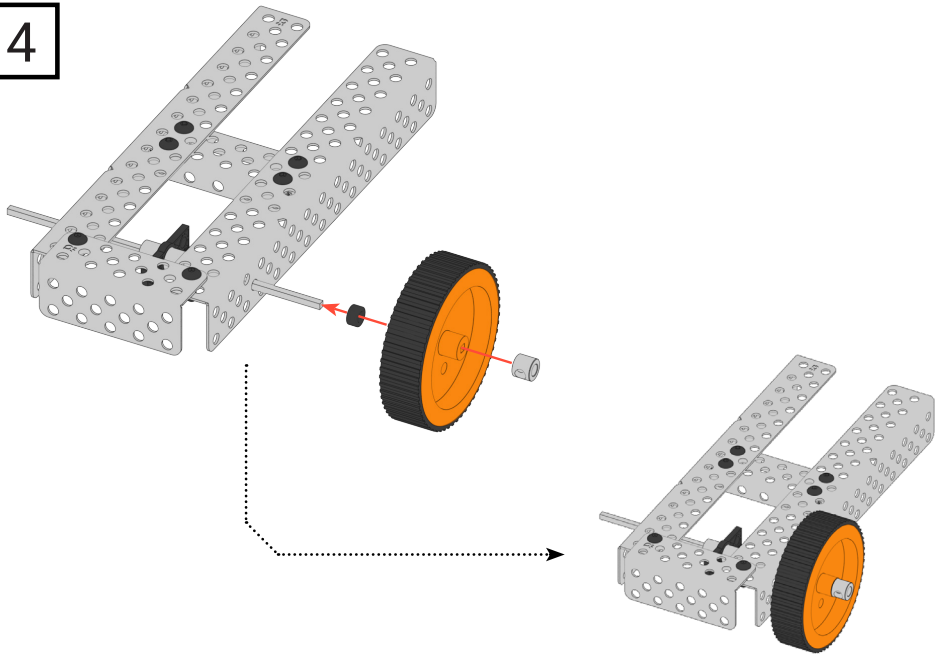
Side View



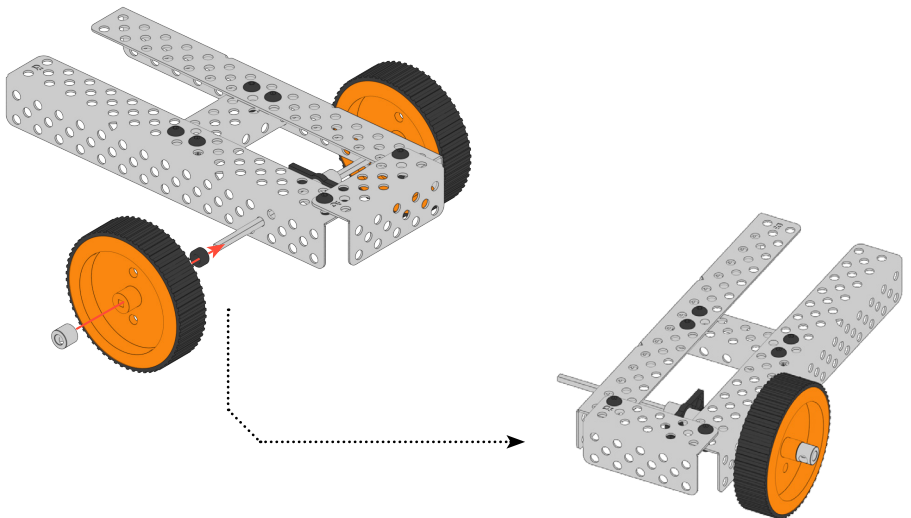
3rd Hole

1:1 5.5 Axle

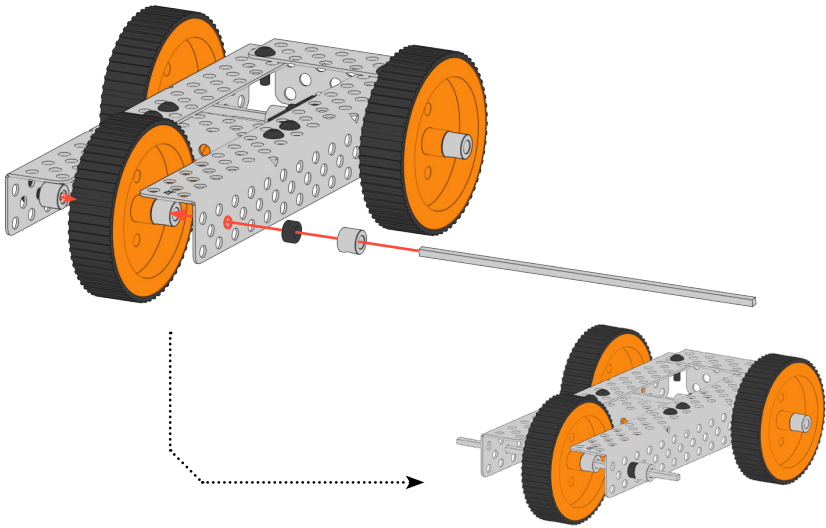
4



5

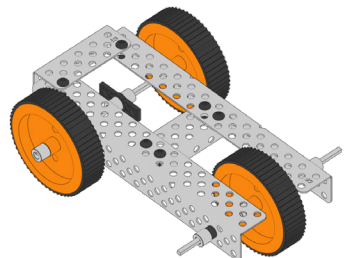
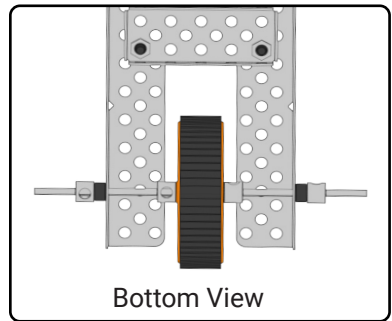
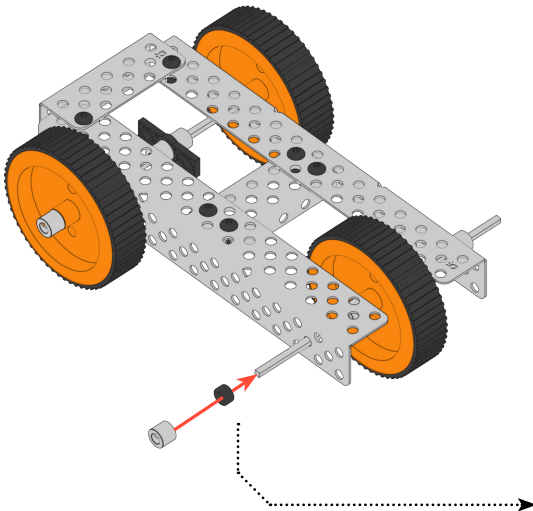


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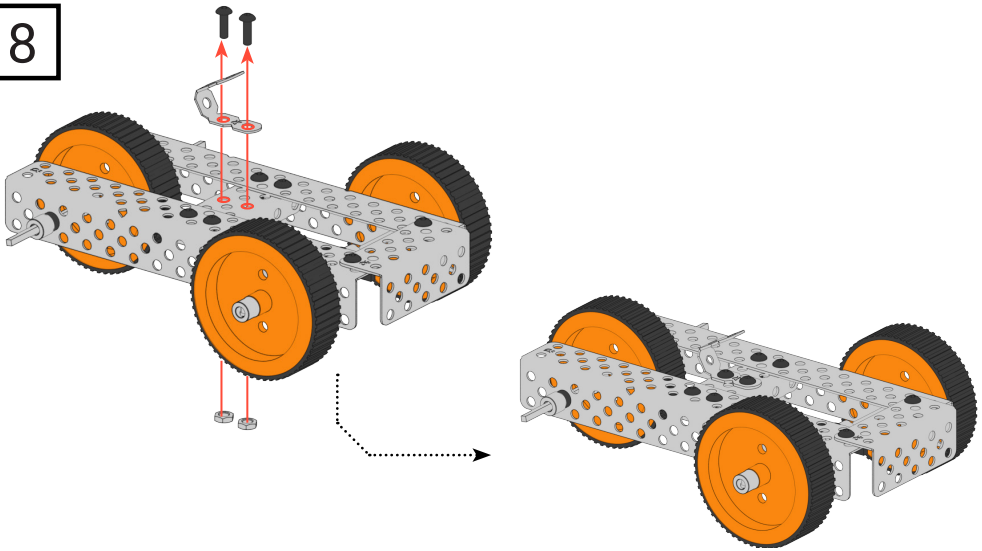


1:1 5.5 Axle

7



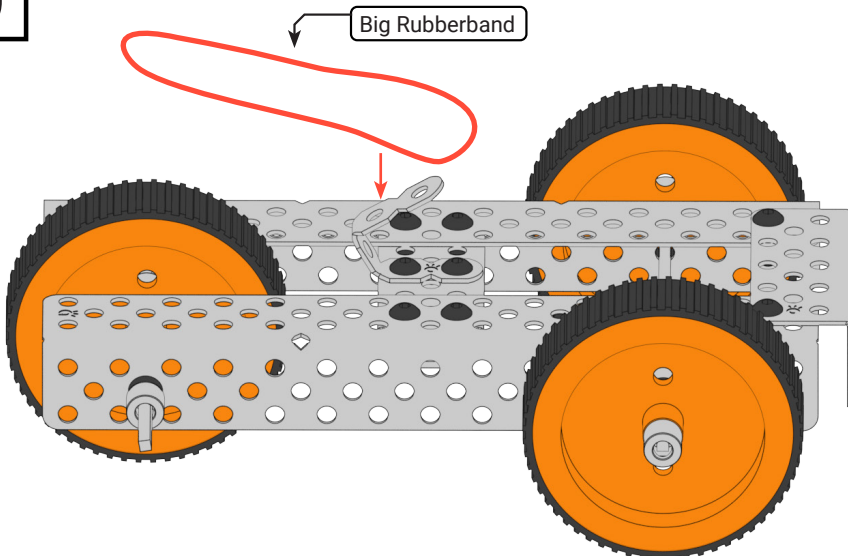
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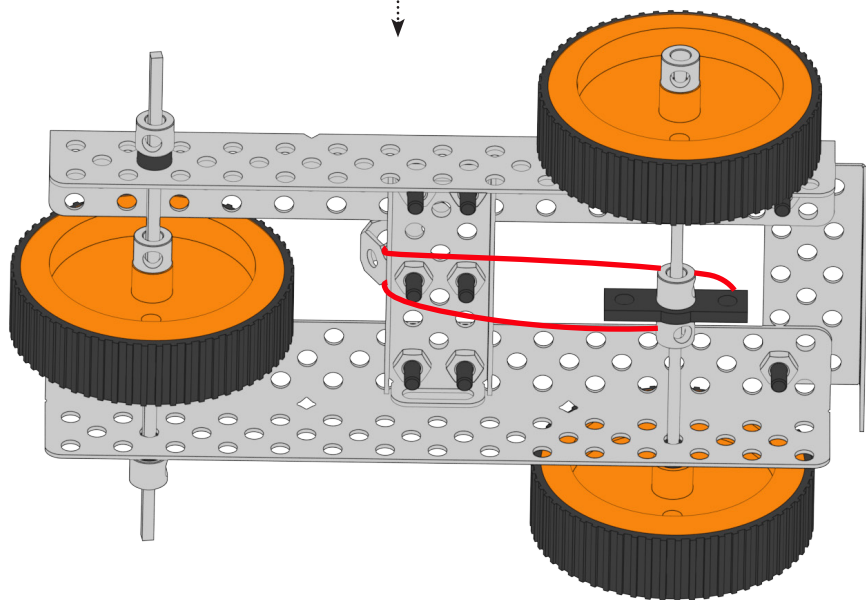
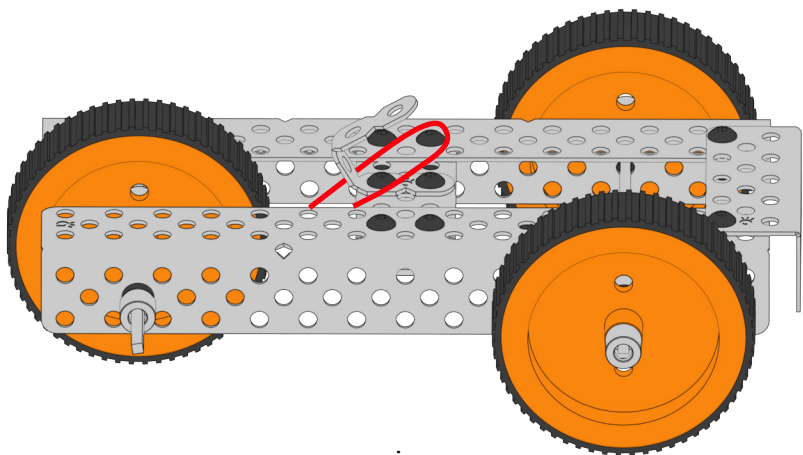
**Build Tip**

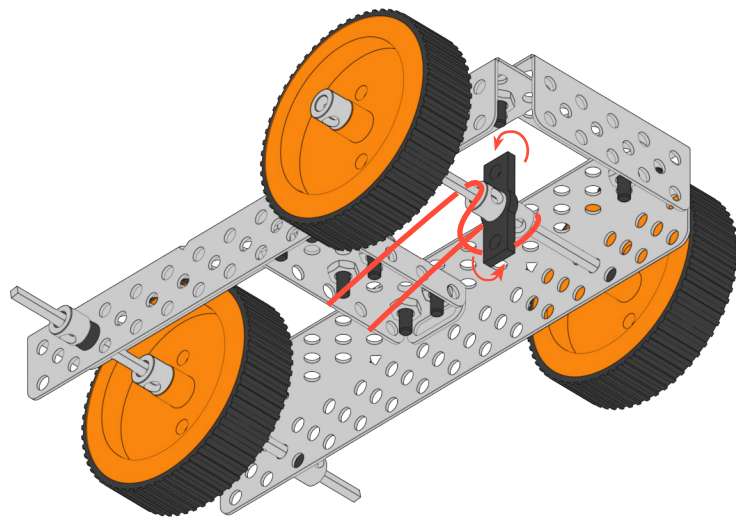
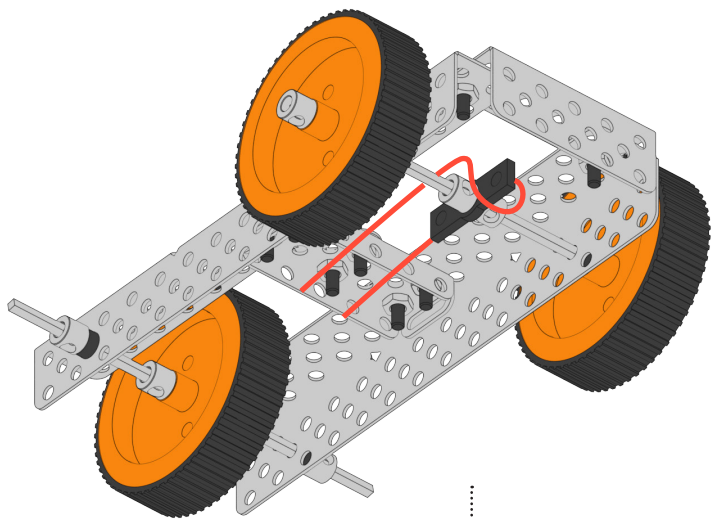
To know how to bend flexi refer to page no.9.



9

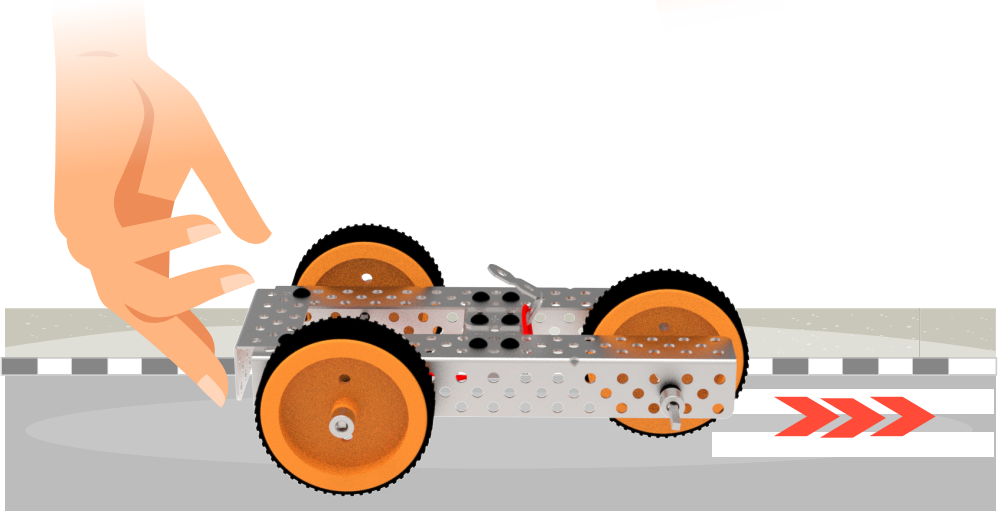
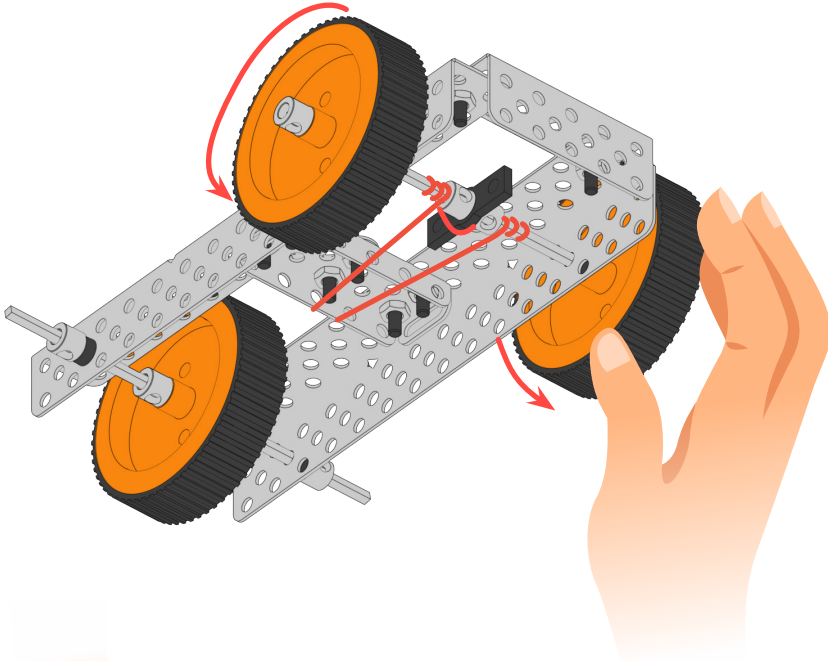




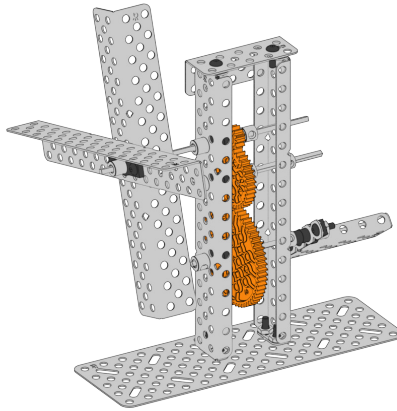


How to play

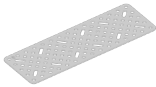
- Coil the rubber band on the rear axle with the help of wheels.
- Rotate the wheel in anti-clockwise direction.
- Hold the rubber band and Axle and place the bot on the surface.



Project 2: Fan



What will you need?



7.5"
Rectangular
Plate
x1



7.5"
L channel
x2



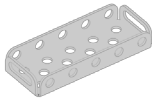
7.5"
U-Beam
x2



2.5"
L channel
x1



2.5"
Small Flexi
x1



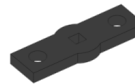
2.5"
U-Beam
x1



fillers
x11



Axle lock
x10



3-Hole
Connectors
x2



5.5" Axle
x1



3.5" Axle
x2



Big spur gear
x1



Medium spur
gear
x1



Small Spur Gear
x1

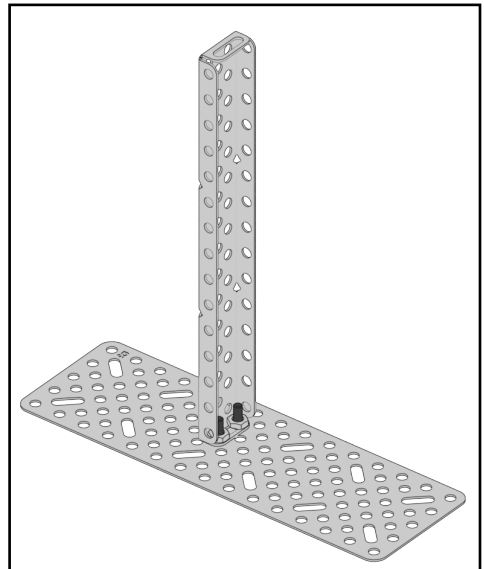
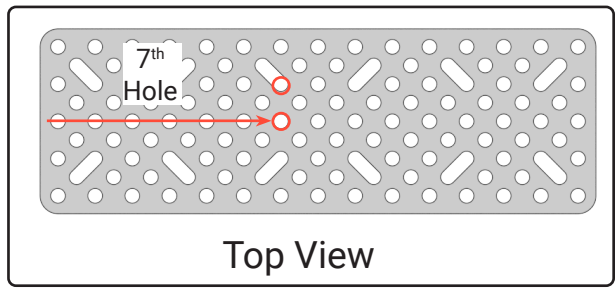
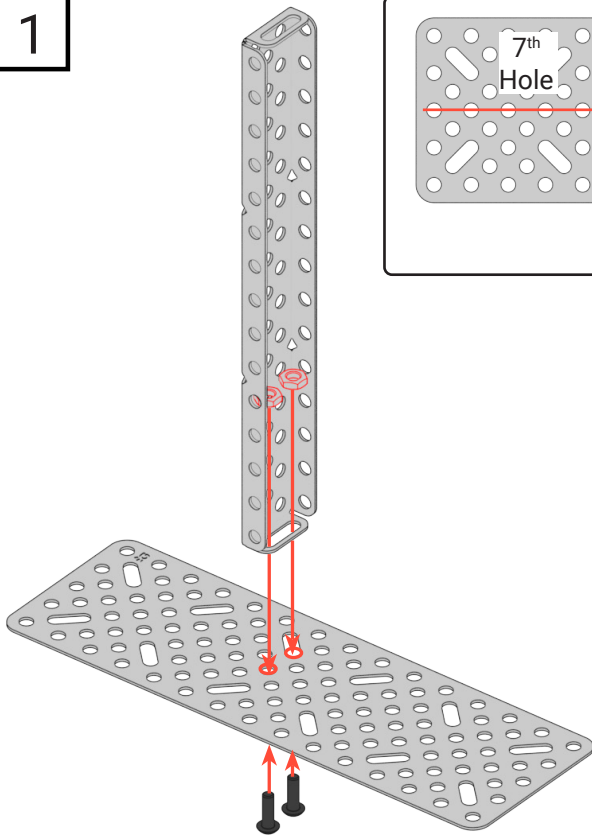


12mm Bolts
x14

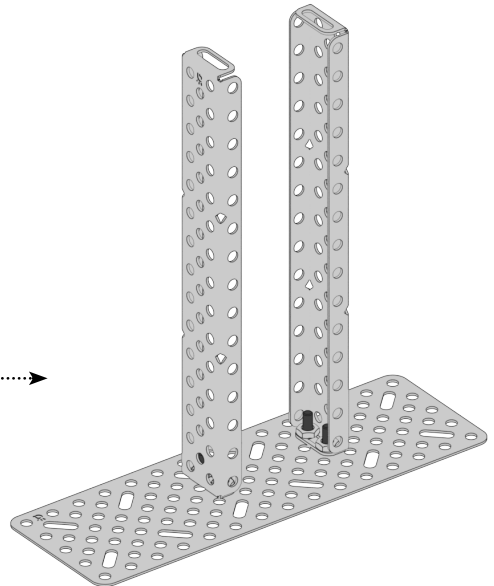
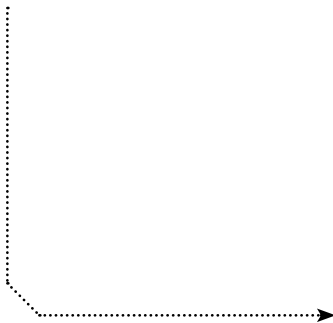
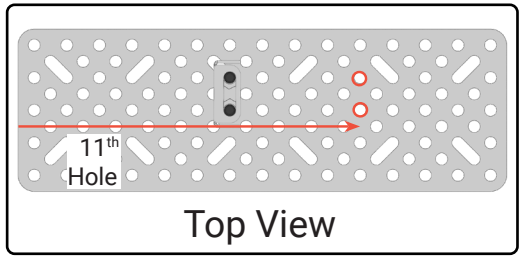
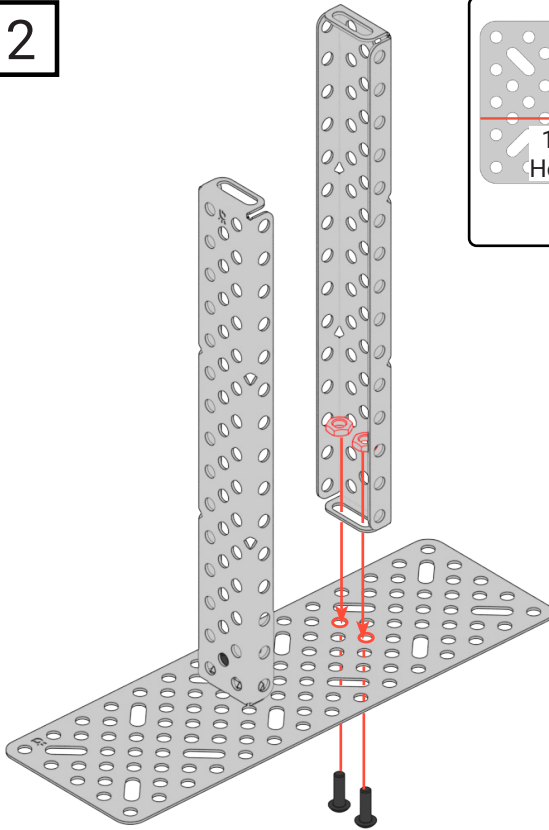


Nuts
x14

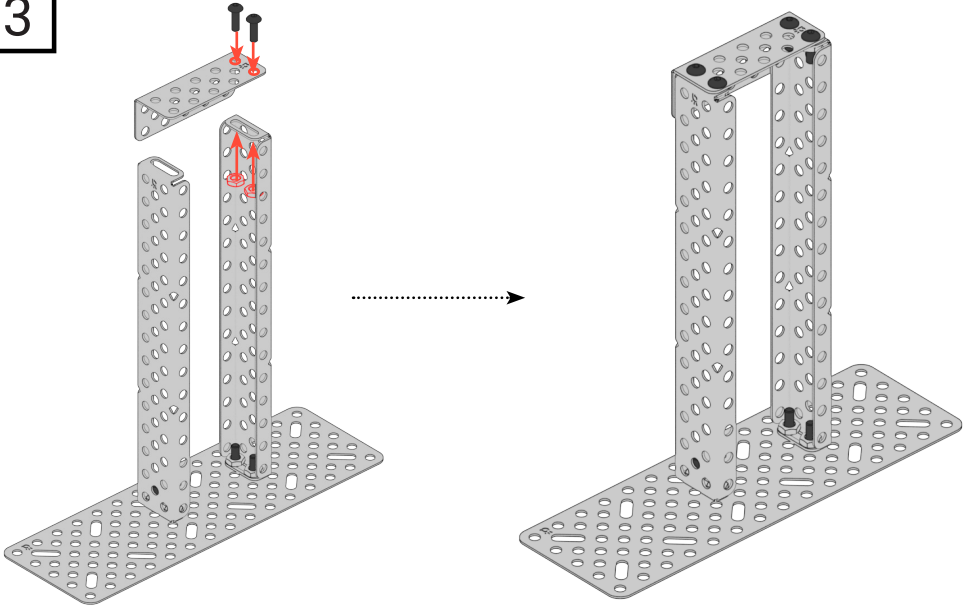
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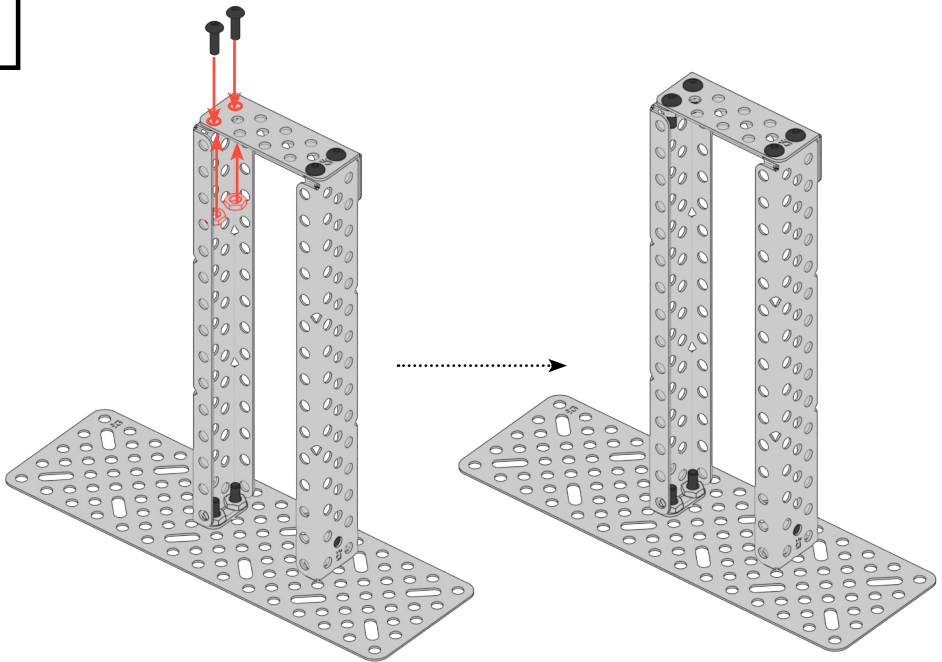
2



3

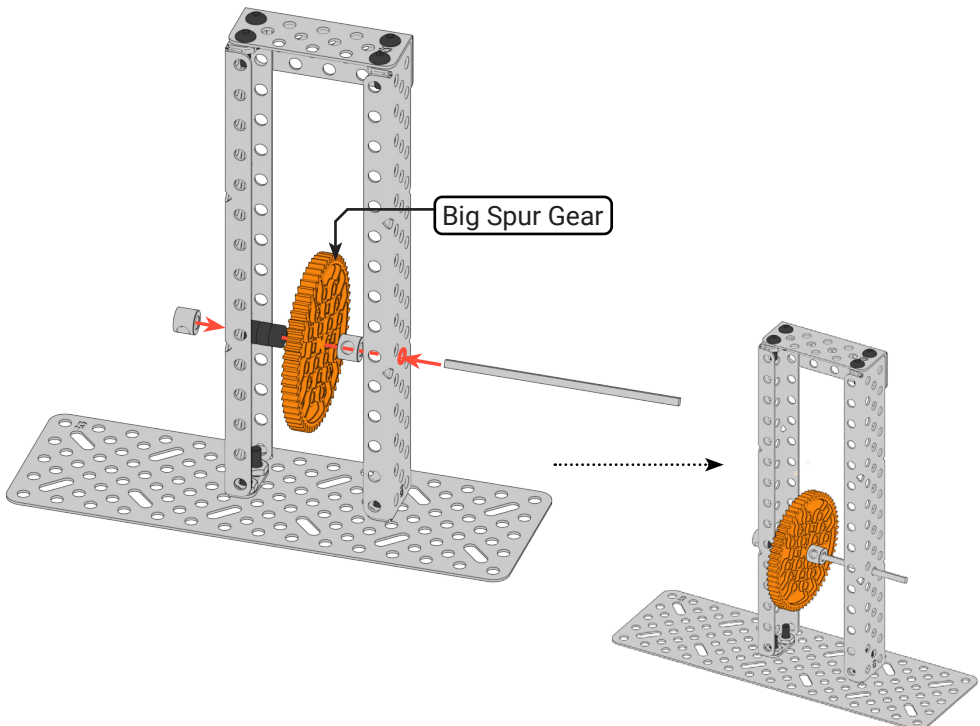
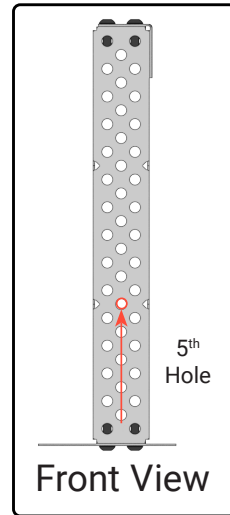
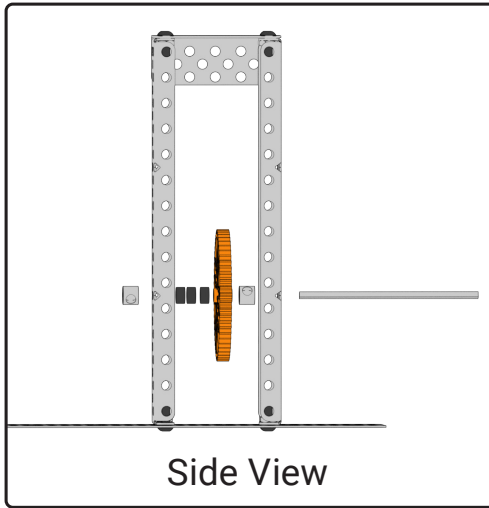


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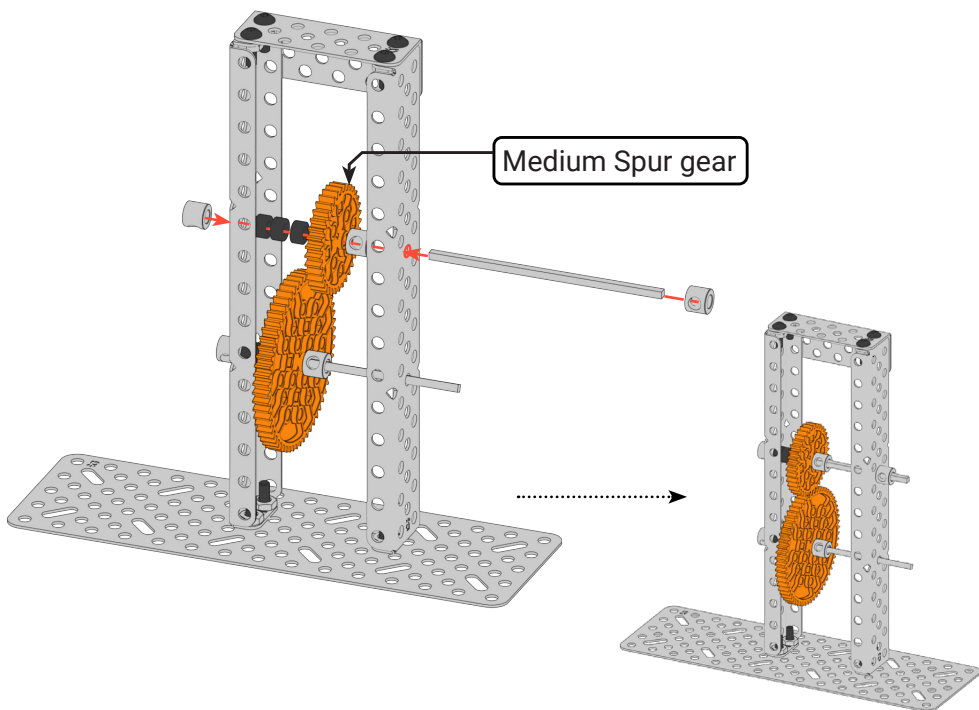
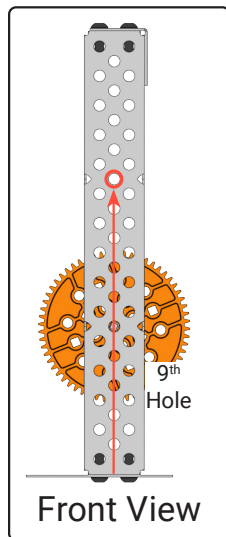
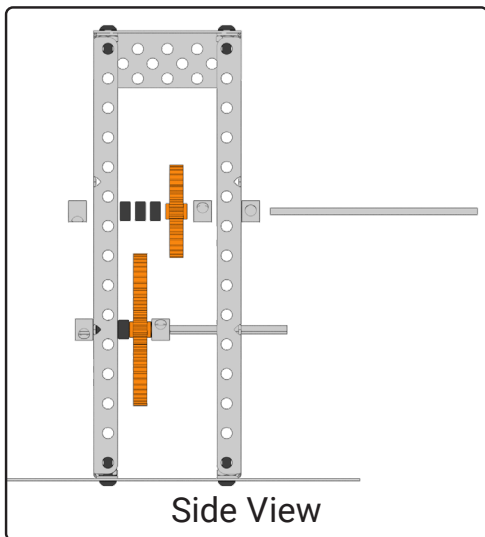
5

1:1 3.5 Axle

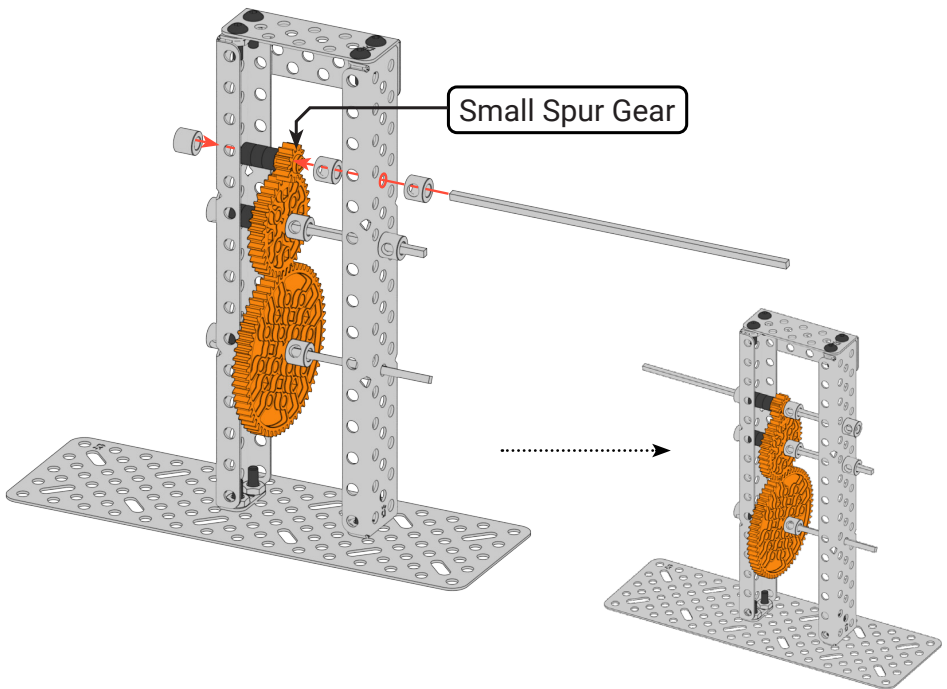
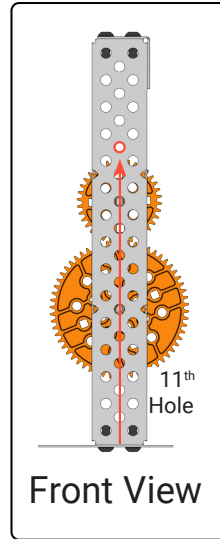
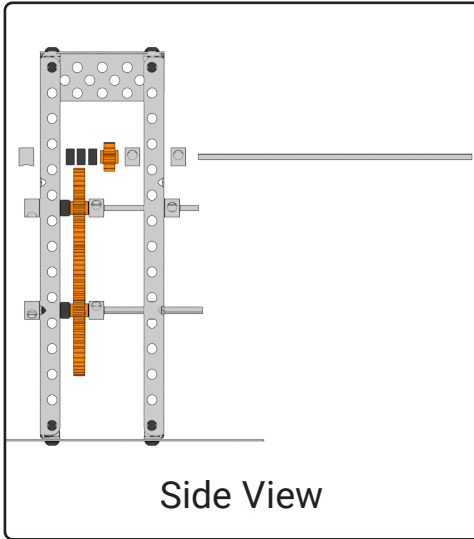


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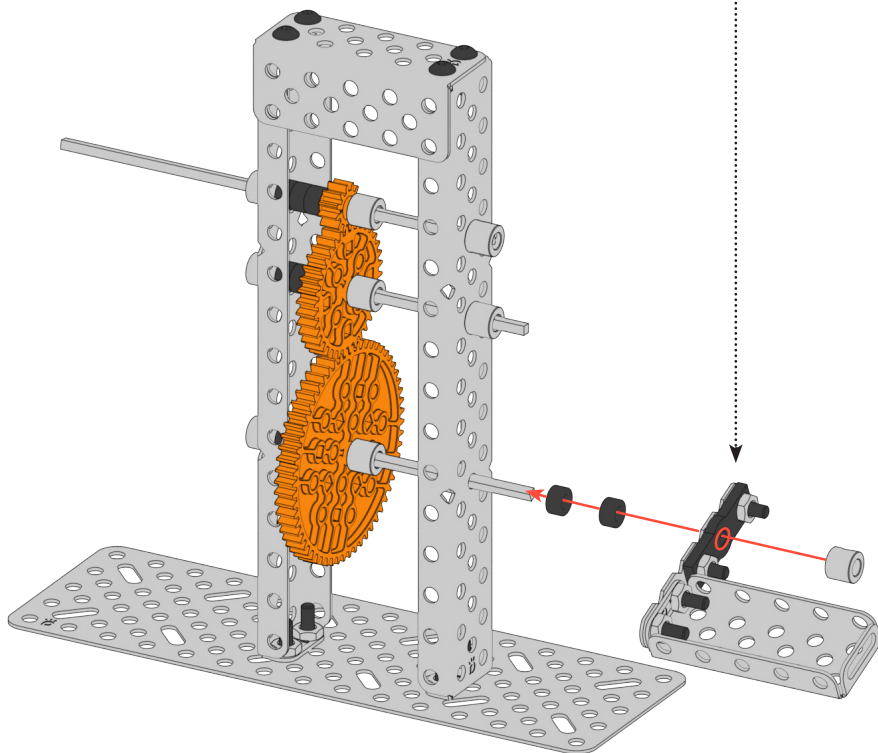
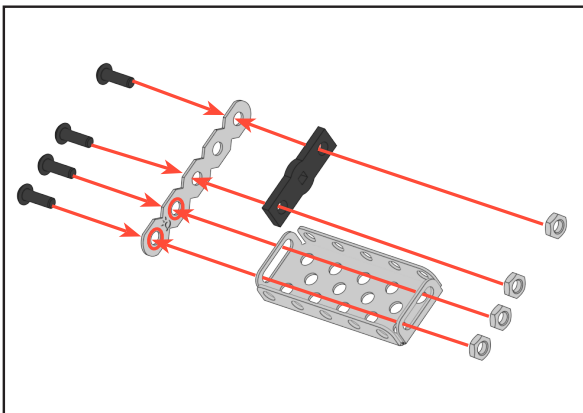
1:1 3.5 Axle



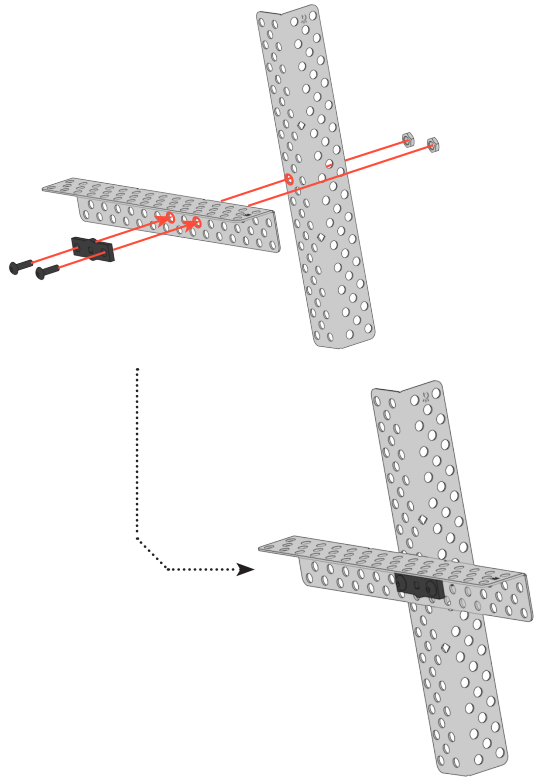
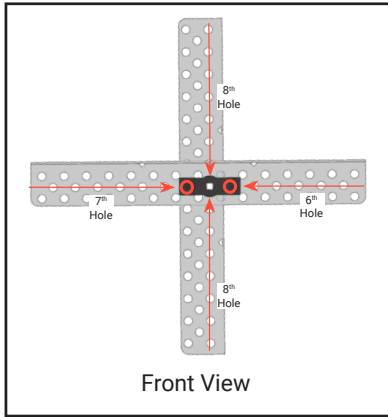
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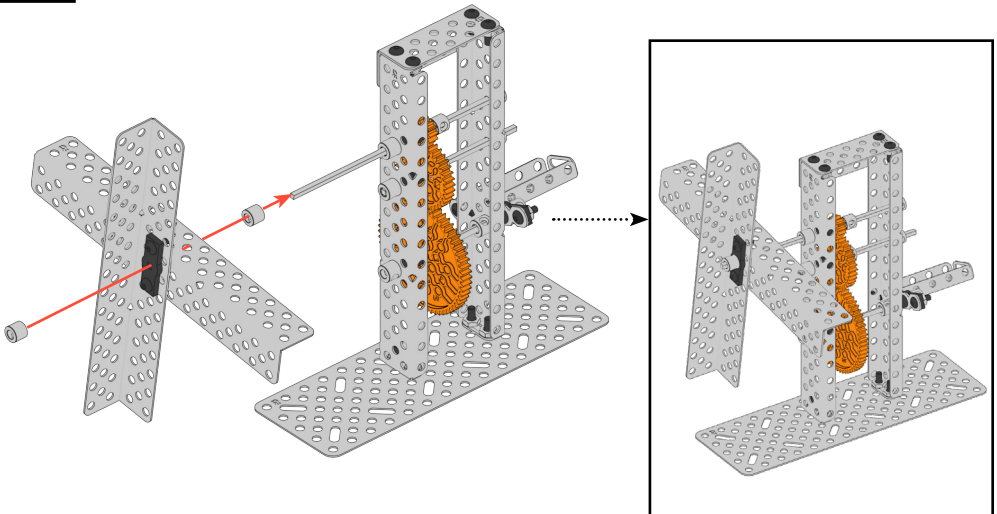
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9

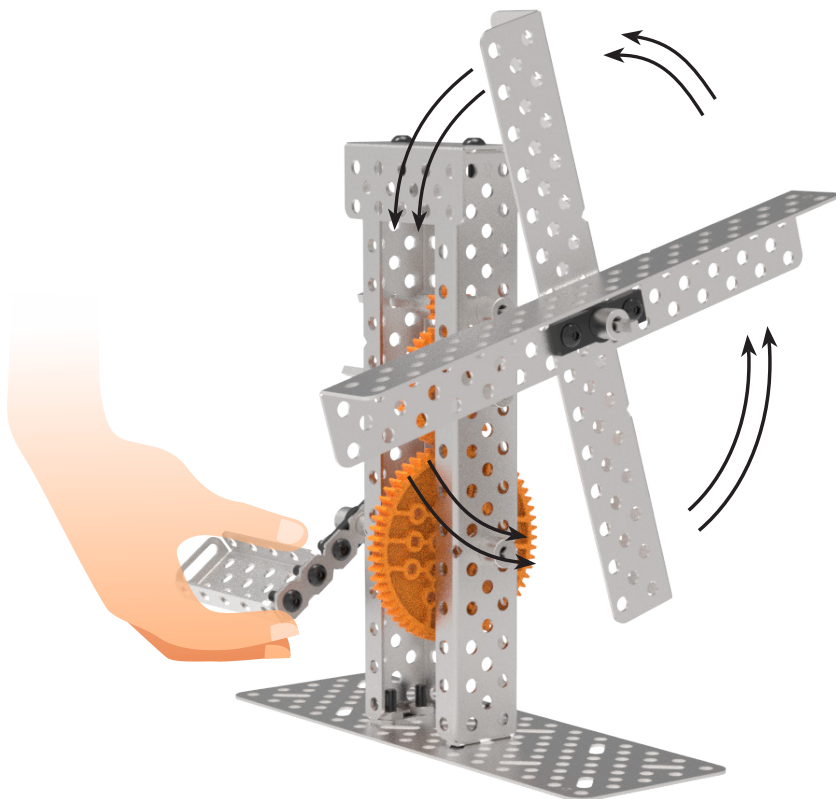


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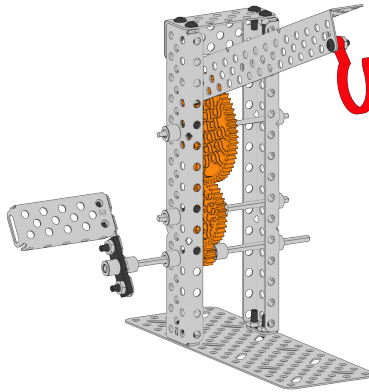


How to play

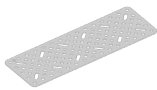
- With the help of lever/handle rotate the fan.



Project 3: Crane



What will you need?



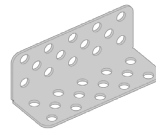
7.5"
Rectangle plate
x1



7.5"
L channel
x1



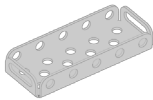
7.5"
U-Beam
x2



2.5"
L channel
x1



2.5"
Small Flexi
x1



2.5"
U-Beam
x1



5.5" Axle
x1



3.5" Axle
x2



3-Hole
Connectors
x1



Big spur gear
x1



Medium spur
gear
x1



Small Spur Gear
x1



Axle lock
x11



fillers
x9



Nuts
x15

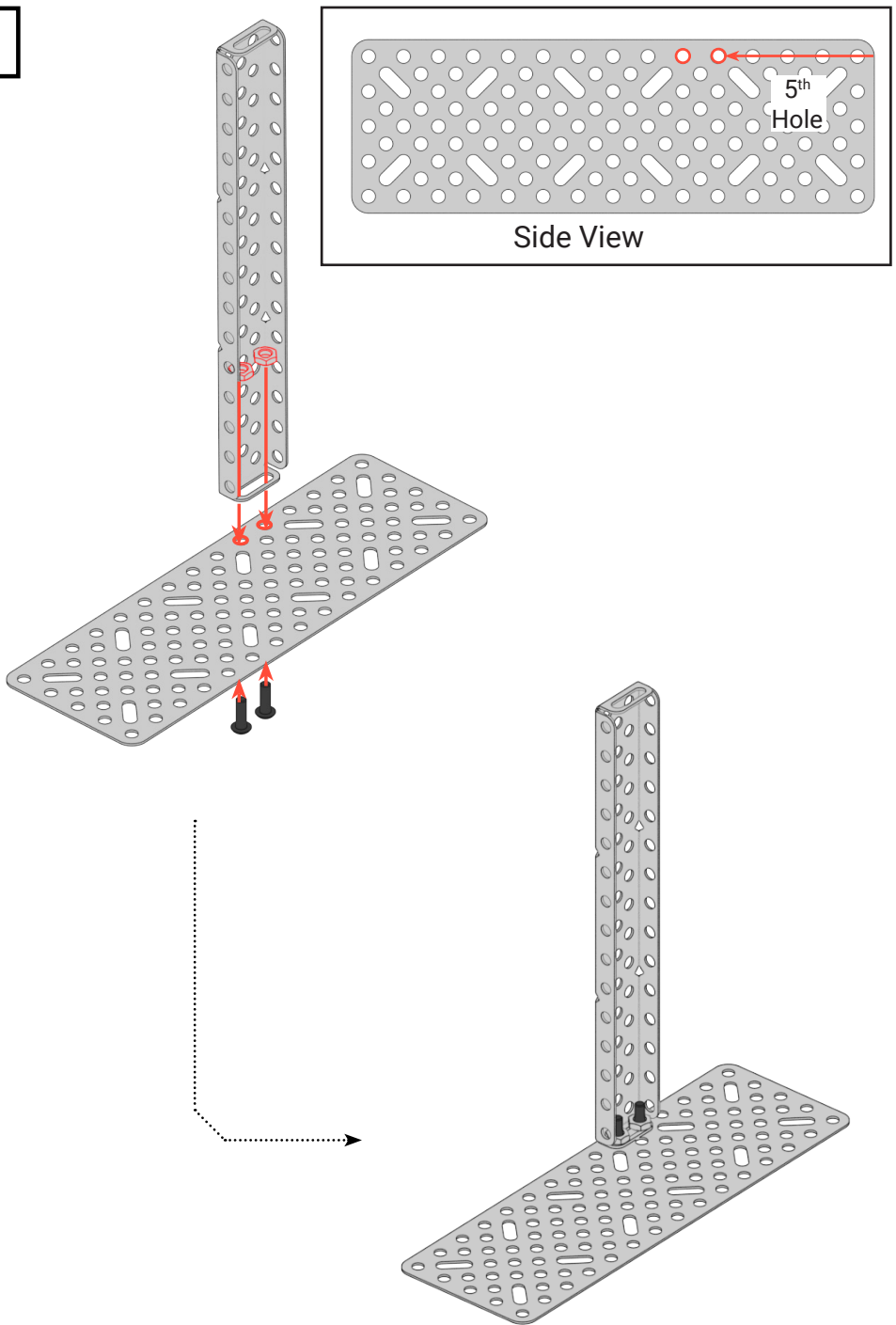


12mm Bolts
x15

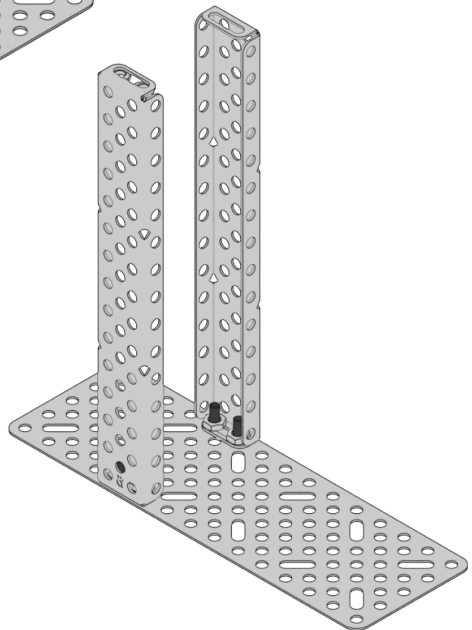
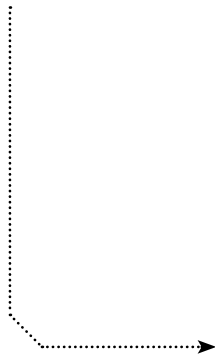
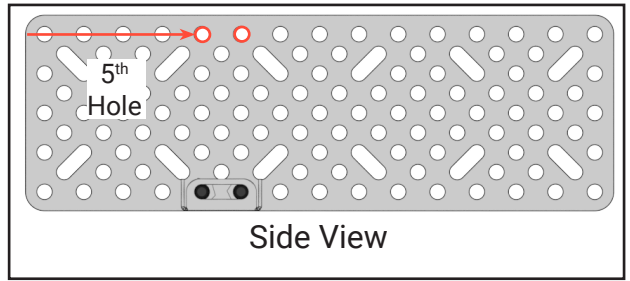
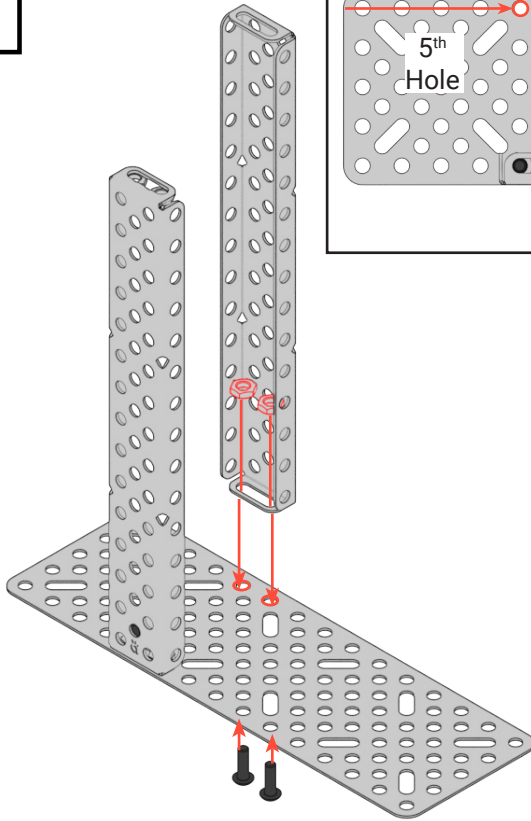


Plastic Hook
x1

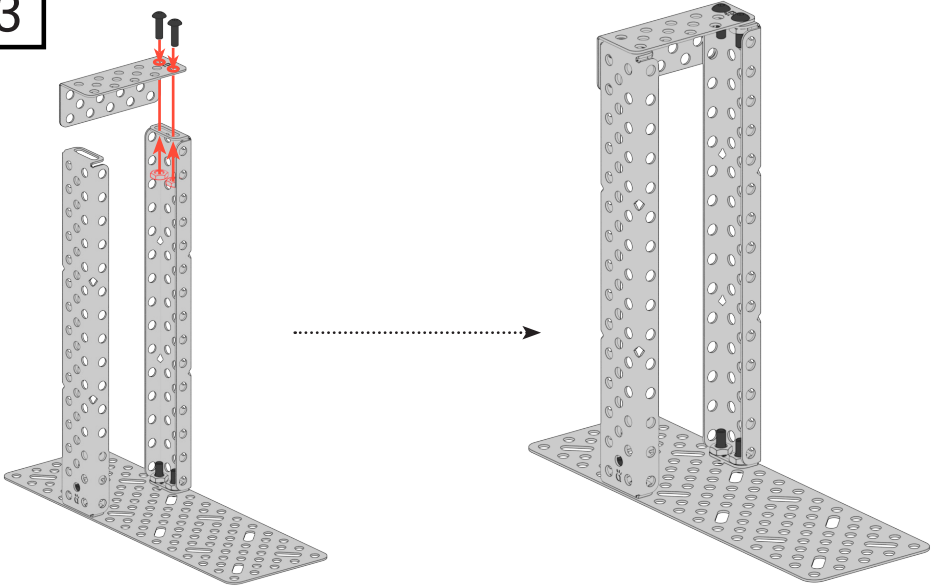
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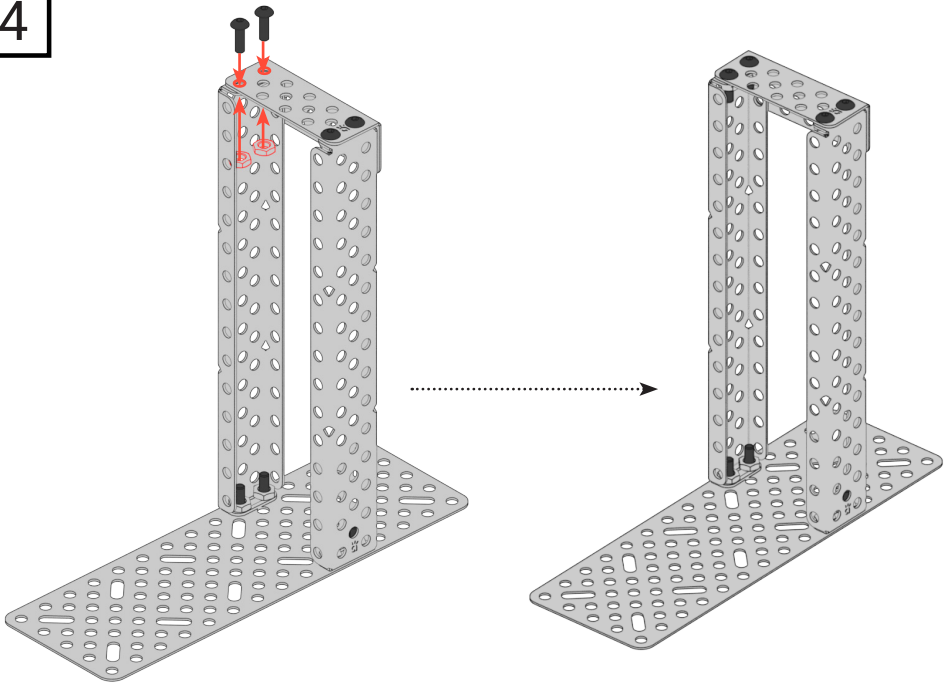
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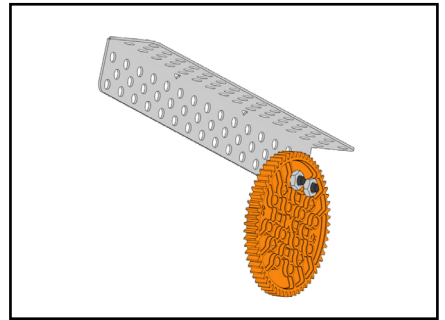
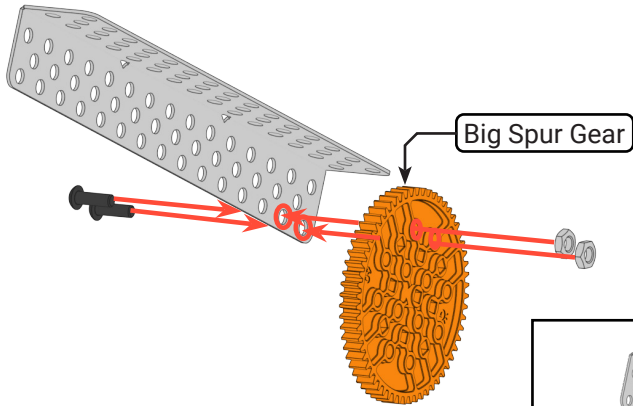
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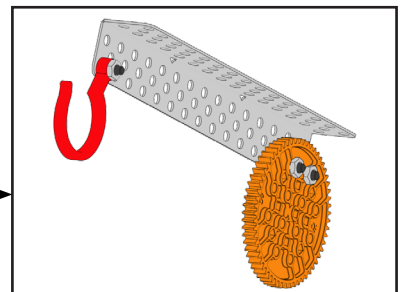
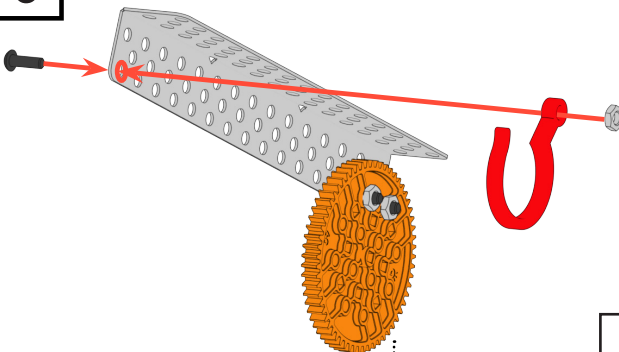
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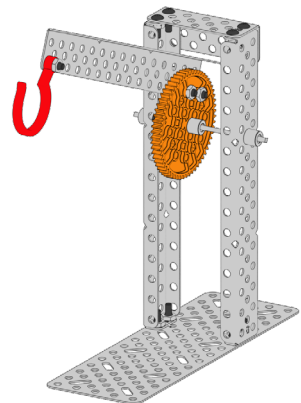
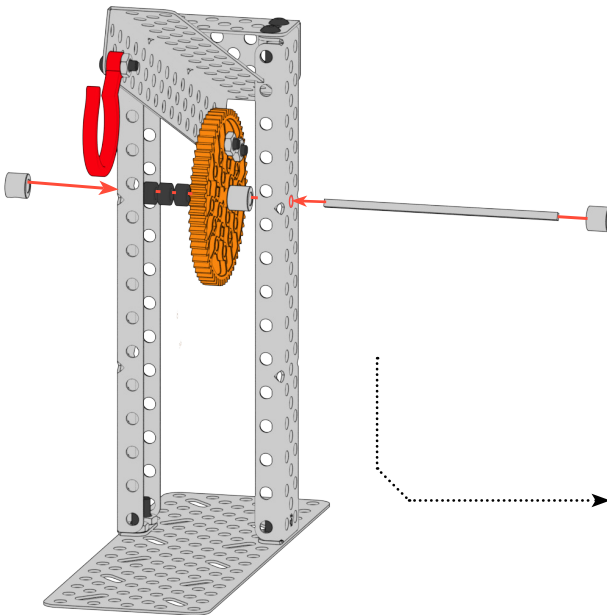
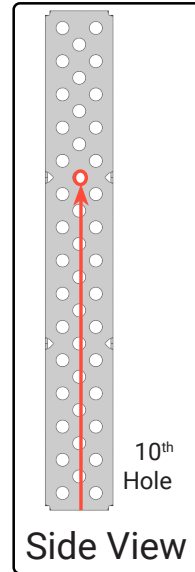
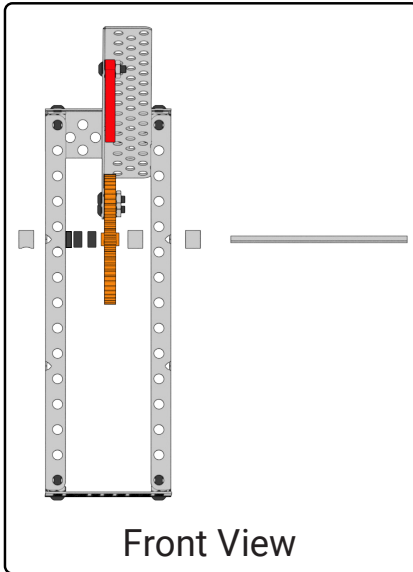


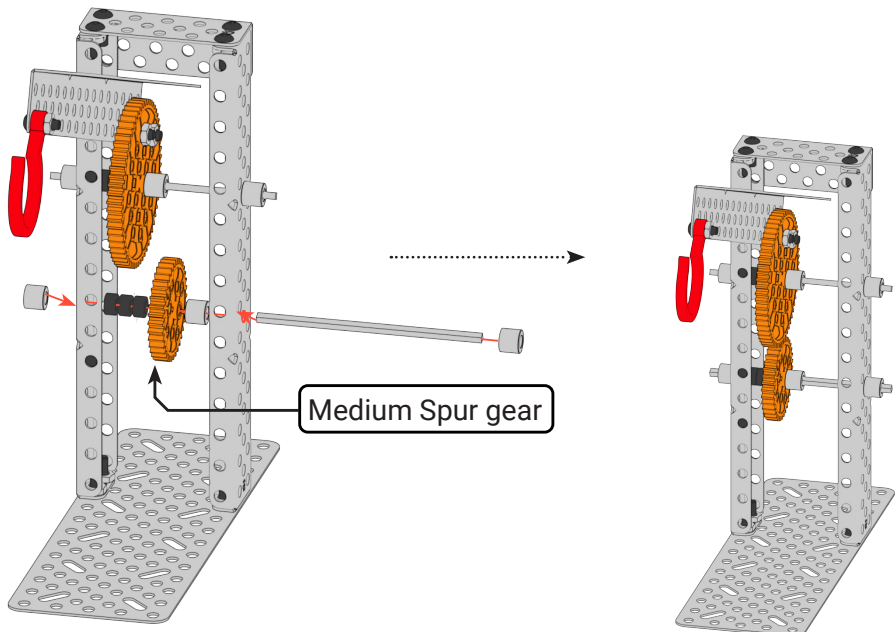
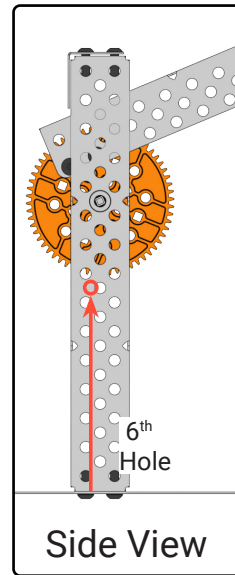
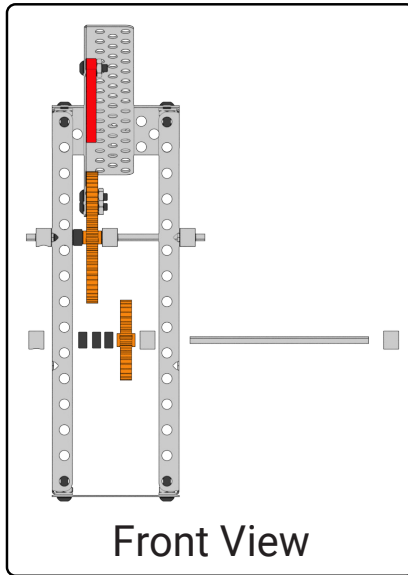
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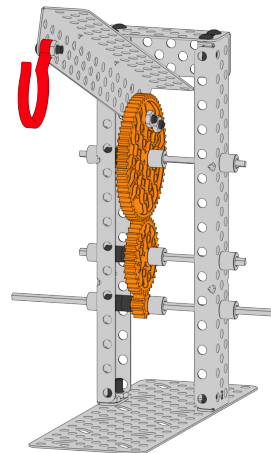
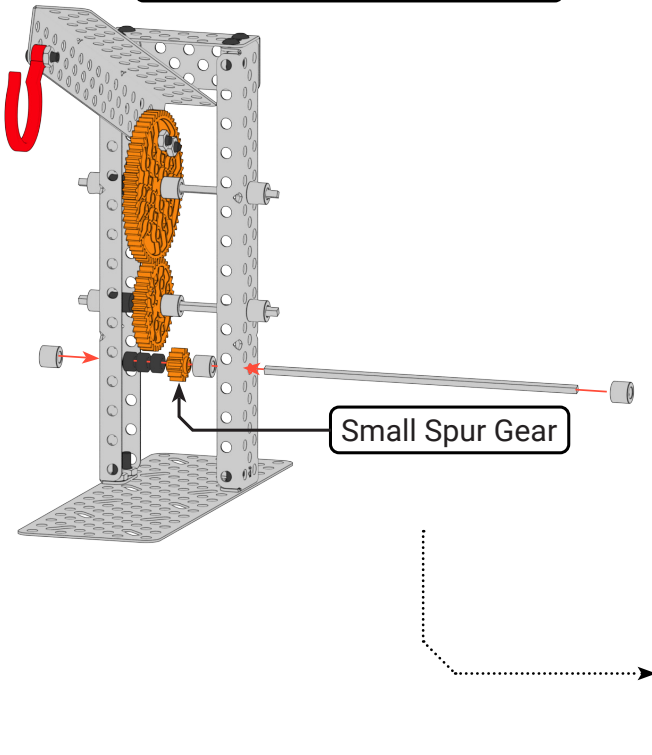
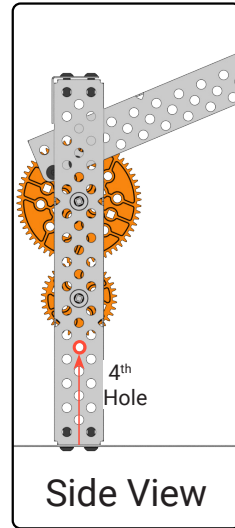
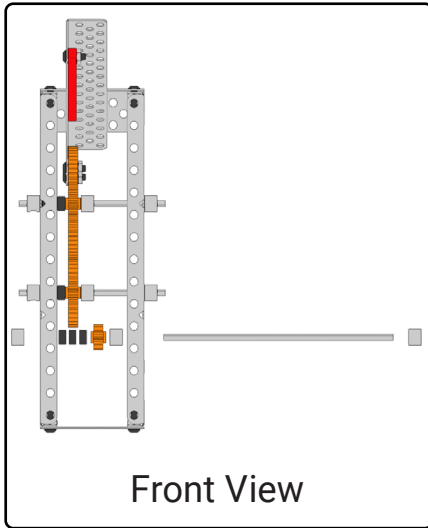
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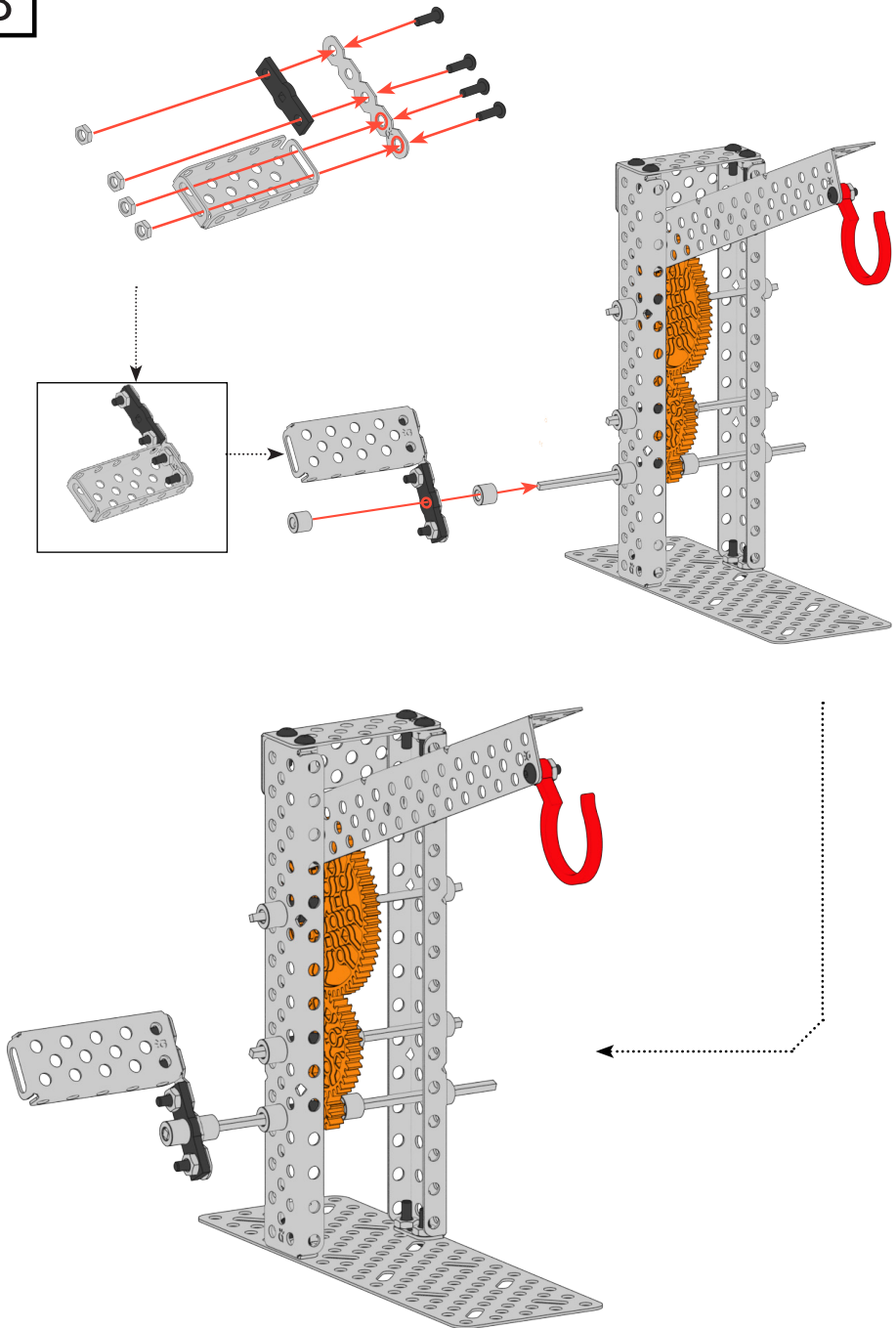




9

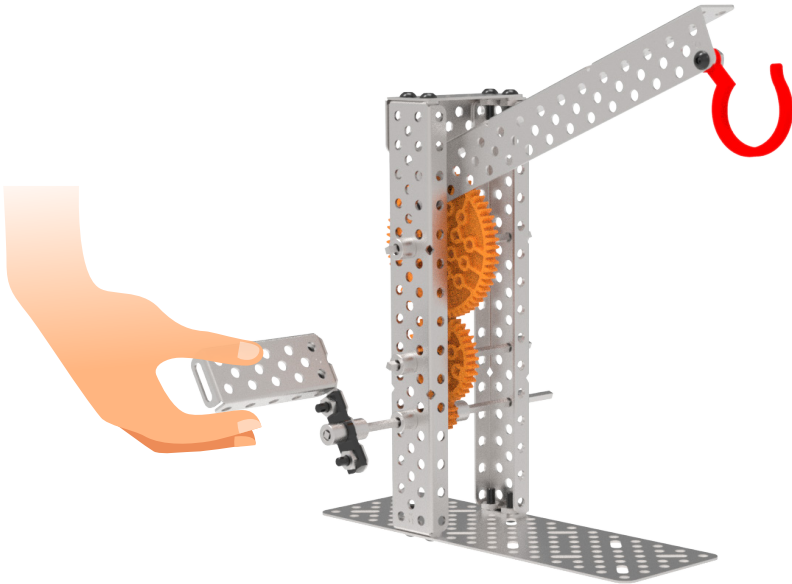


8

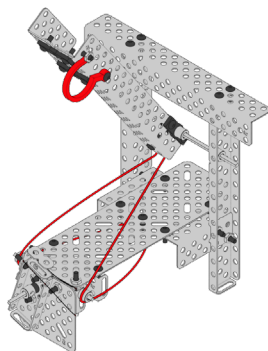


How to play

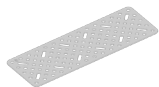
- Rotate the lever/handle to lift the object and make the crane work.



Project 4: Catapult



What will you need?



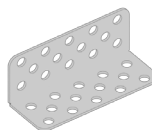
7.5"
Rectangular
plate
x1



7.5"
L-Channel
x2



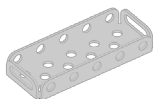
7.5"
U-Beam
x2



2.5"
L-Channel
x3



2.5"
Flexi
x1



2.5"
U-Beam
x3



Fillers
x1



Axle lock
x9



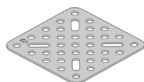
3-Hole
Connectors
x5



5.5" Axle
x1



3.5" Axle
x2



2.5"
L channel
x1



12mm Bolts
x31



Nuts
x31



Plastic Hook
x1

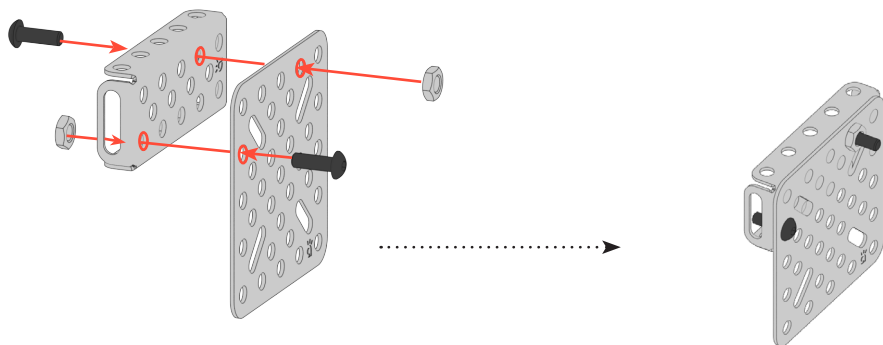


Big Rubber
Band
x1

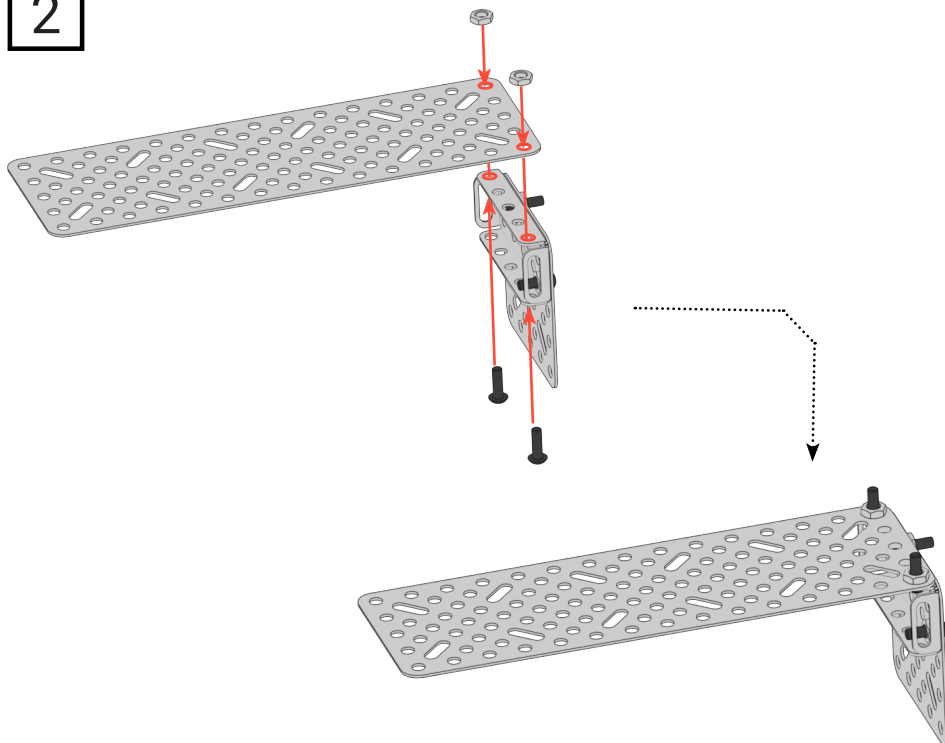


Small Rubber
Band
x1

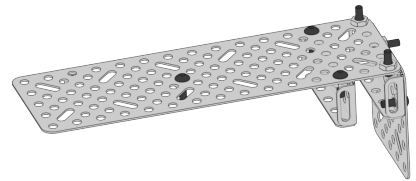
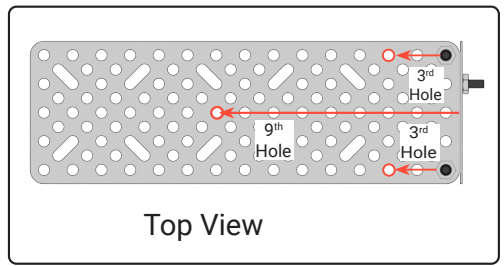
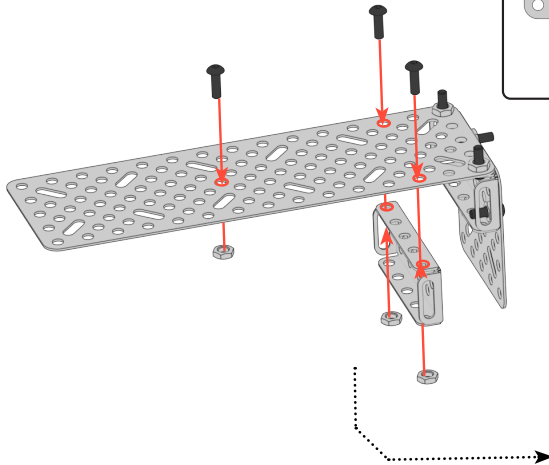
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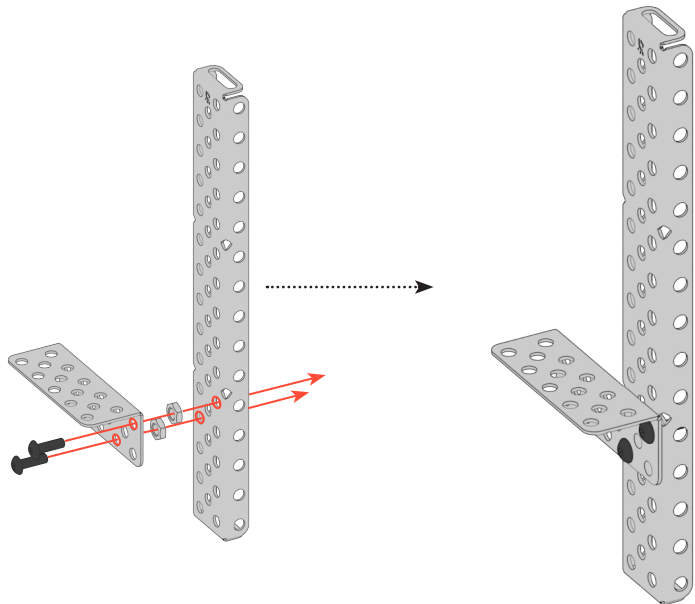
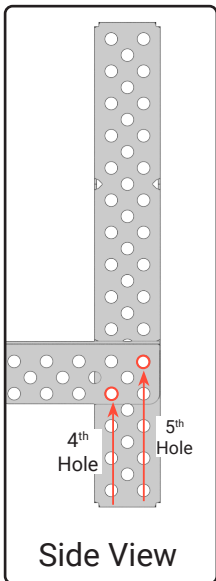
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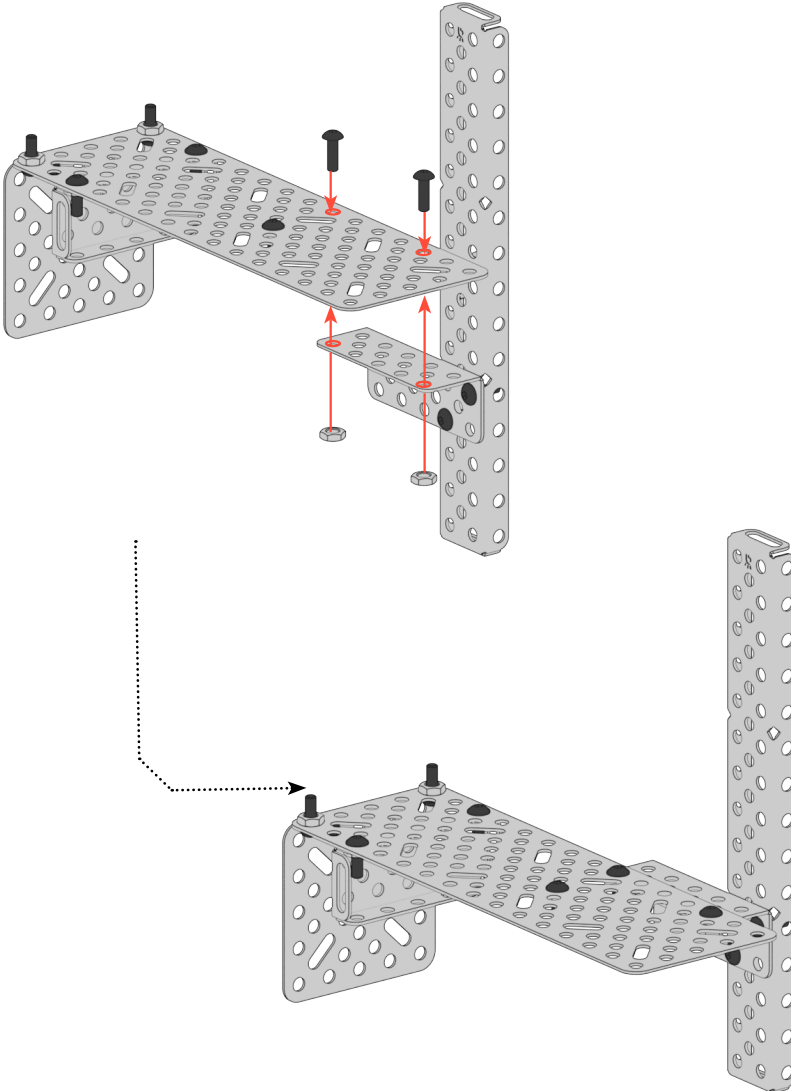
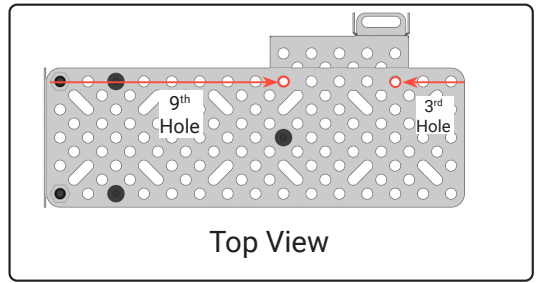
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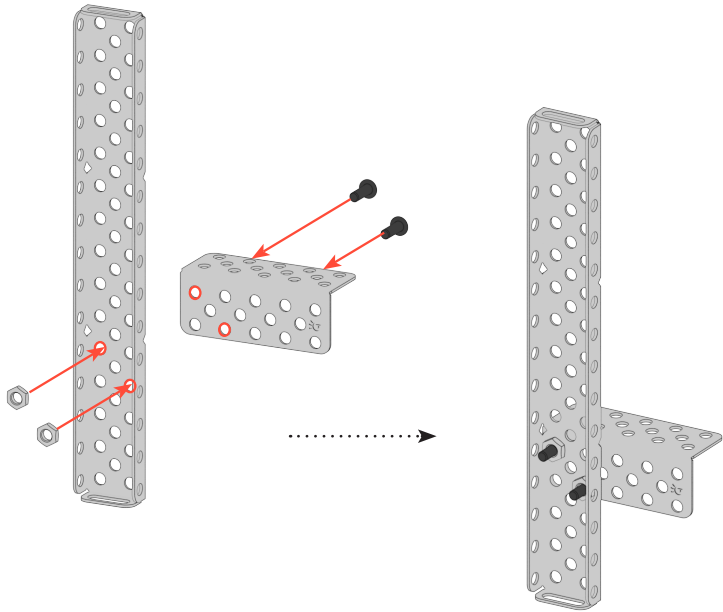
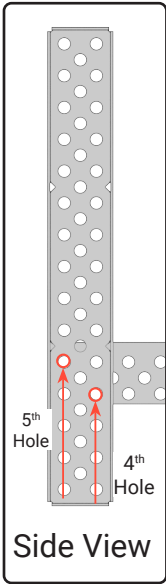
4



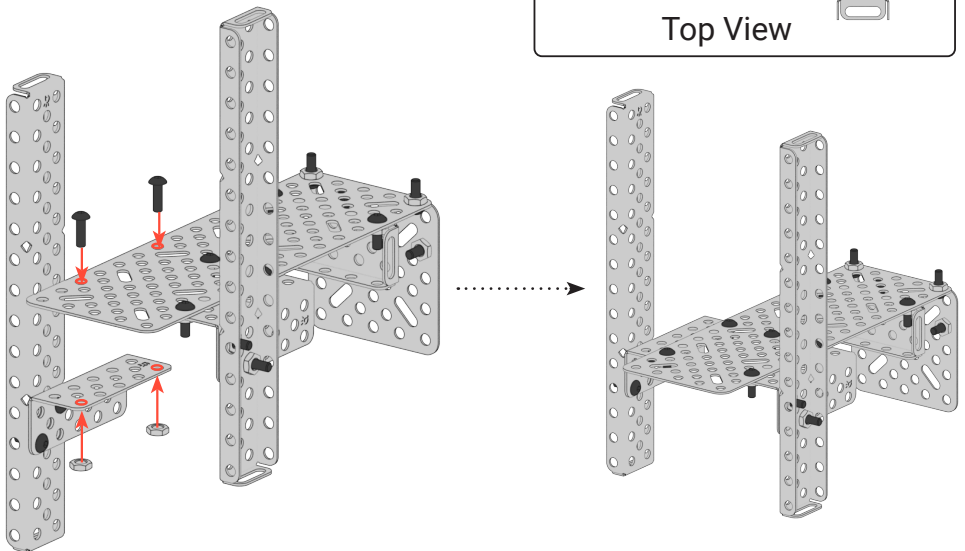
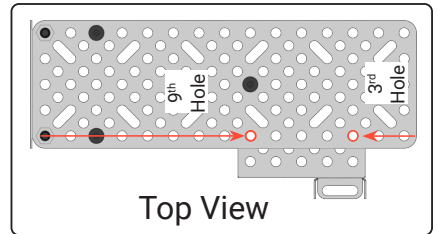
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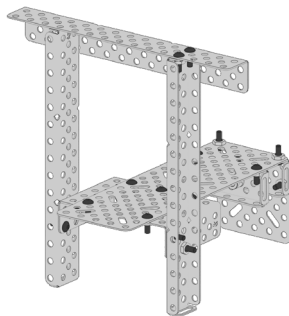
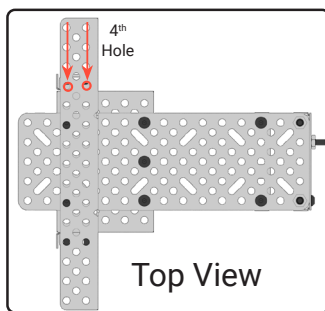
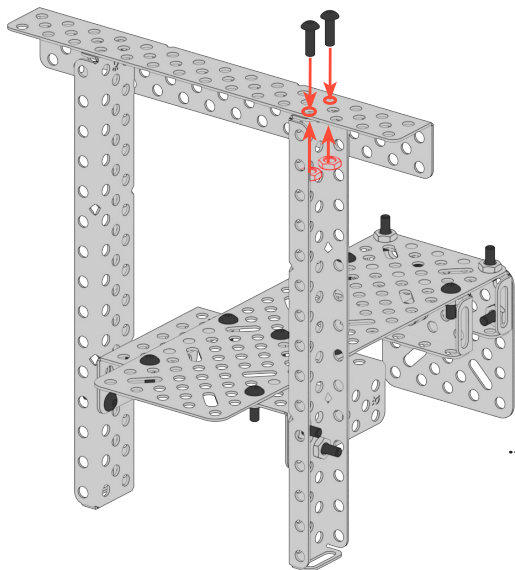
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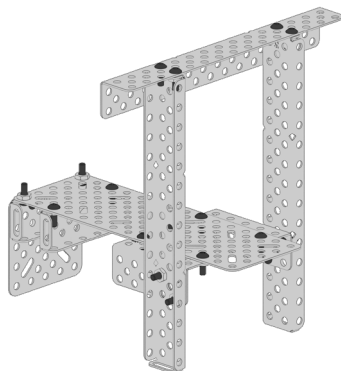
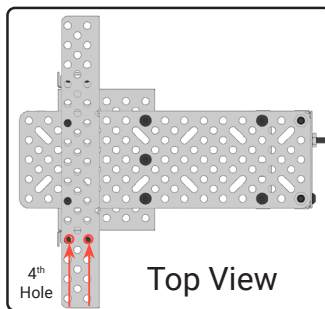
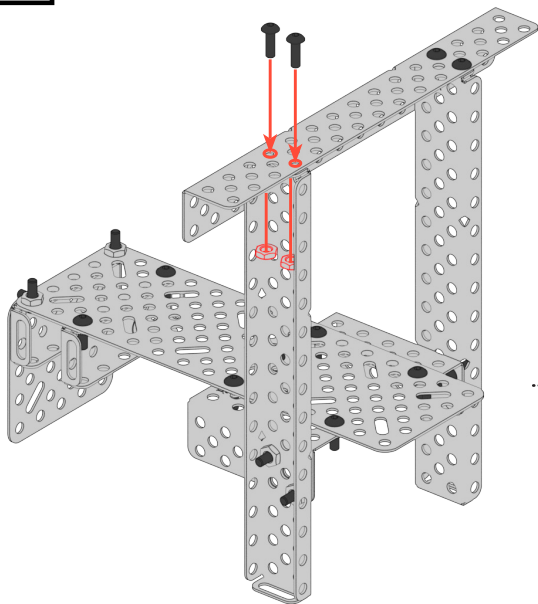
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8

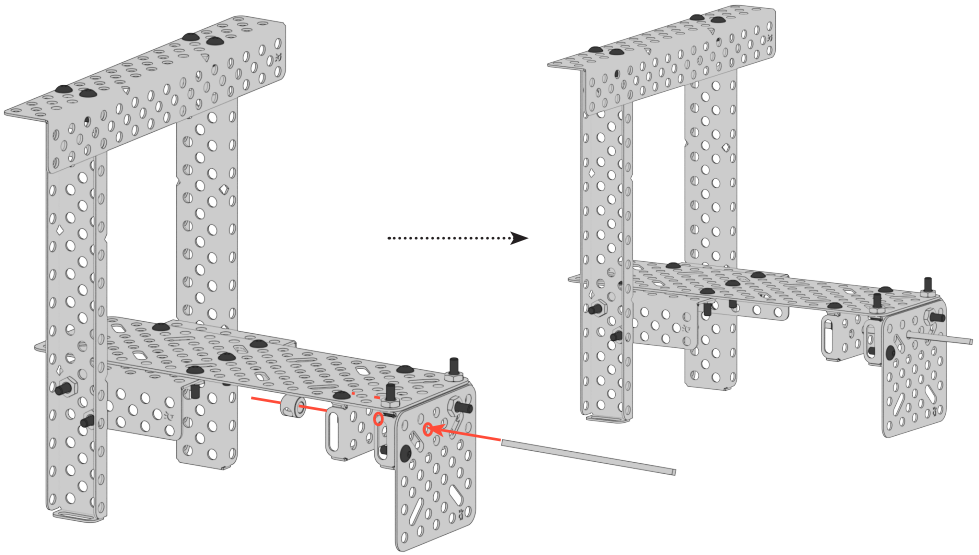


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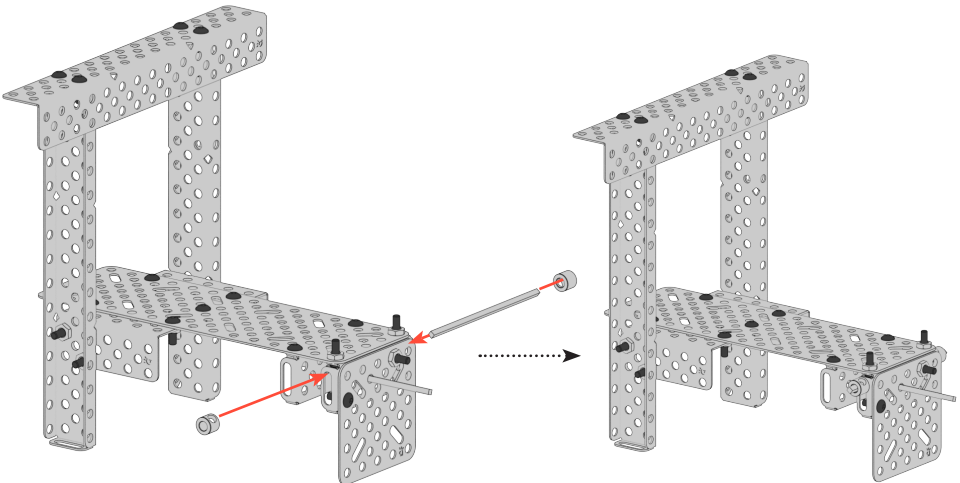
10

1:1 3.5 Axle

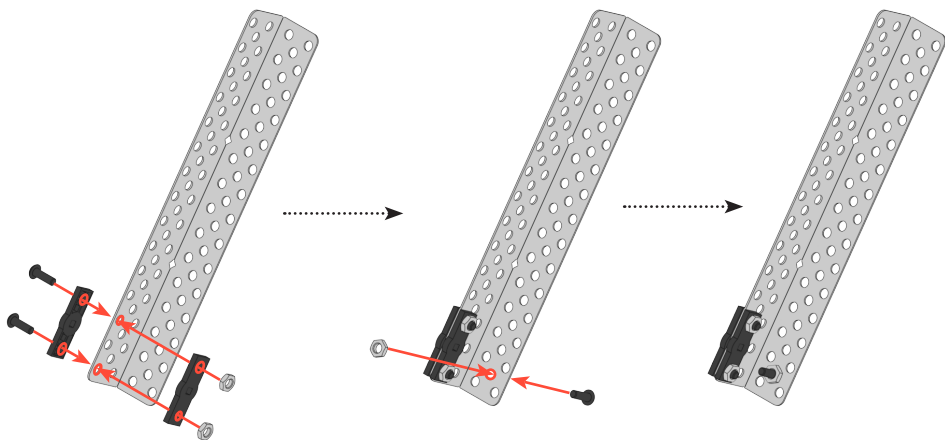


11

1:1 3.5 Axle

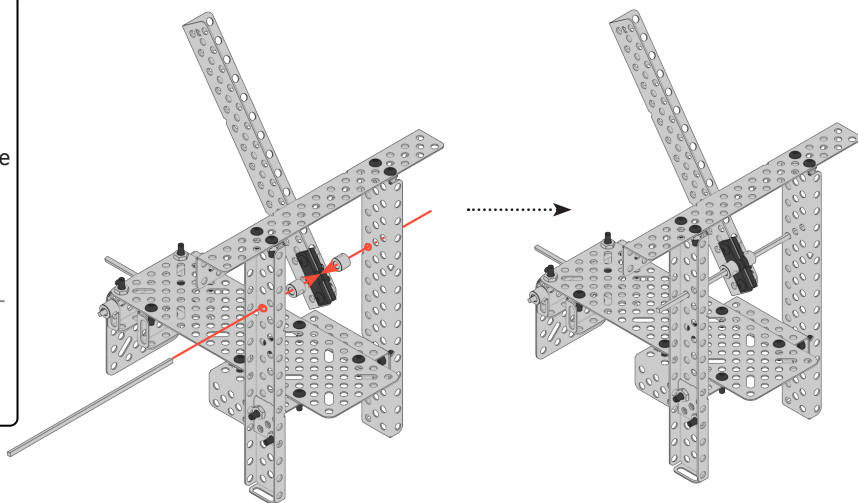
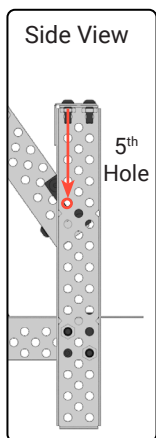


12

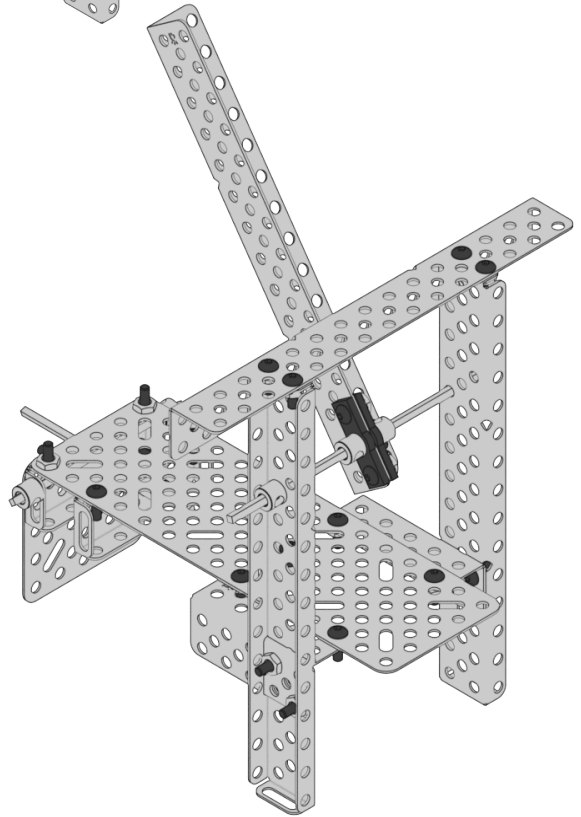
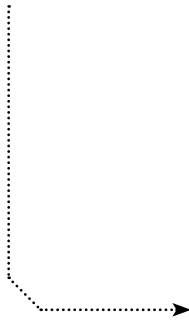
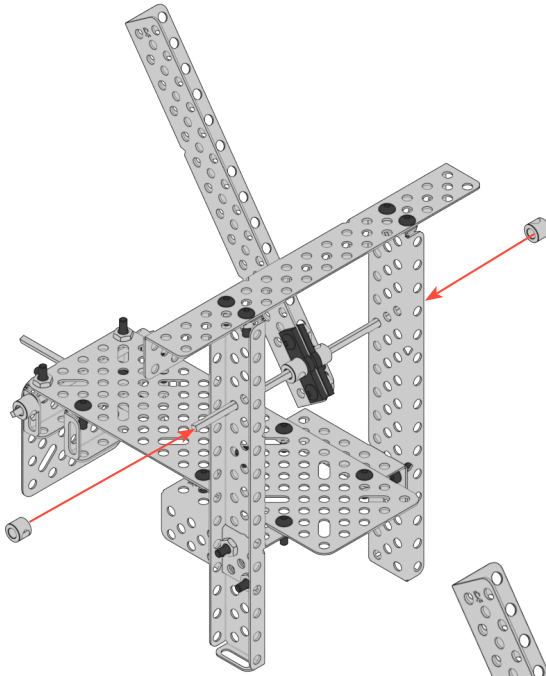


1:1 5.5 Axle

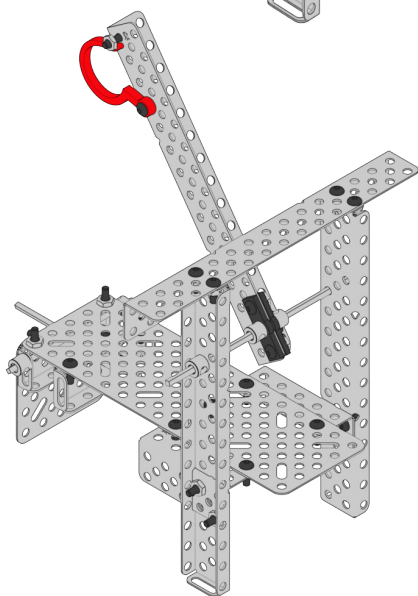
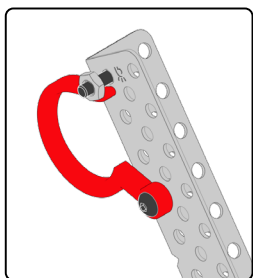
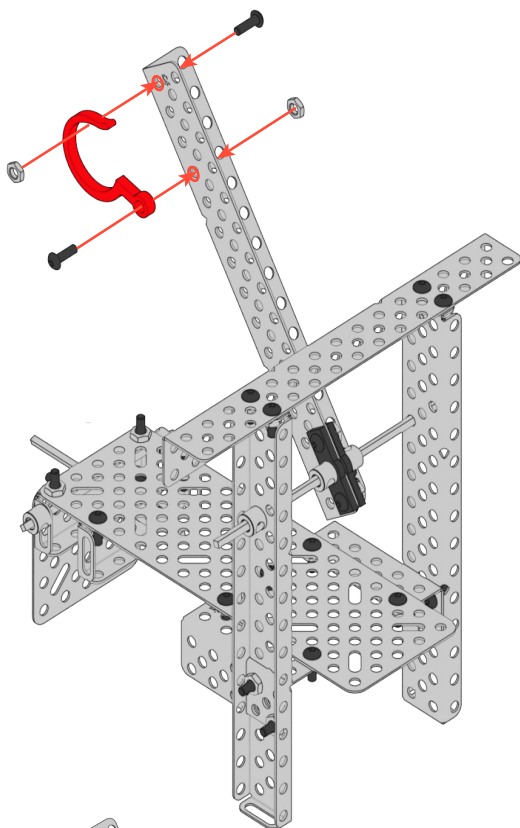
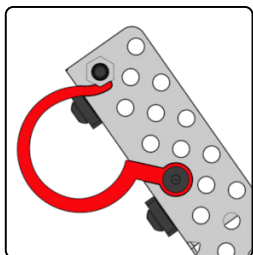
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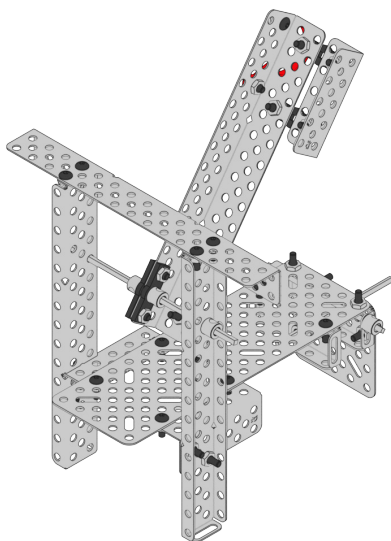
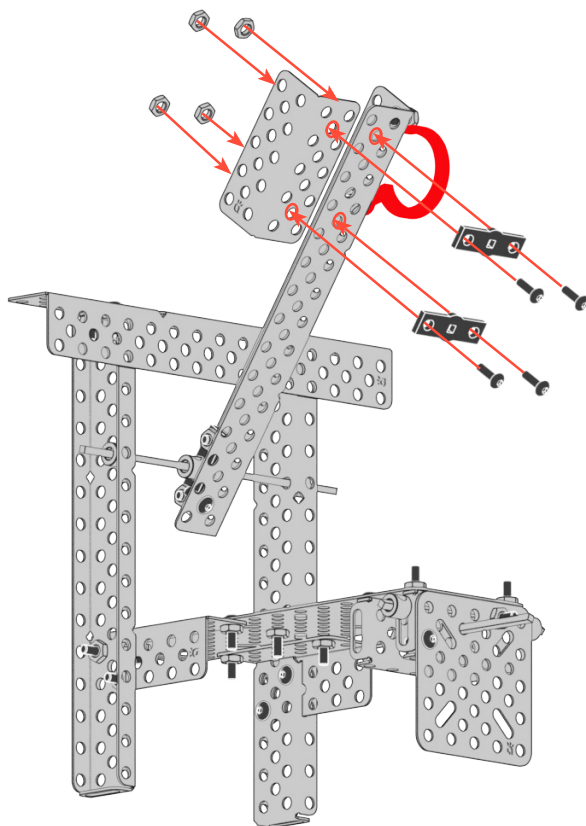
14



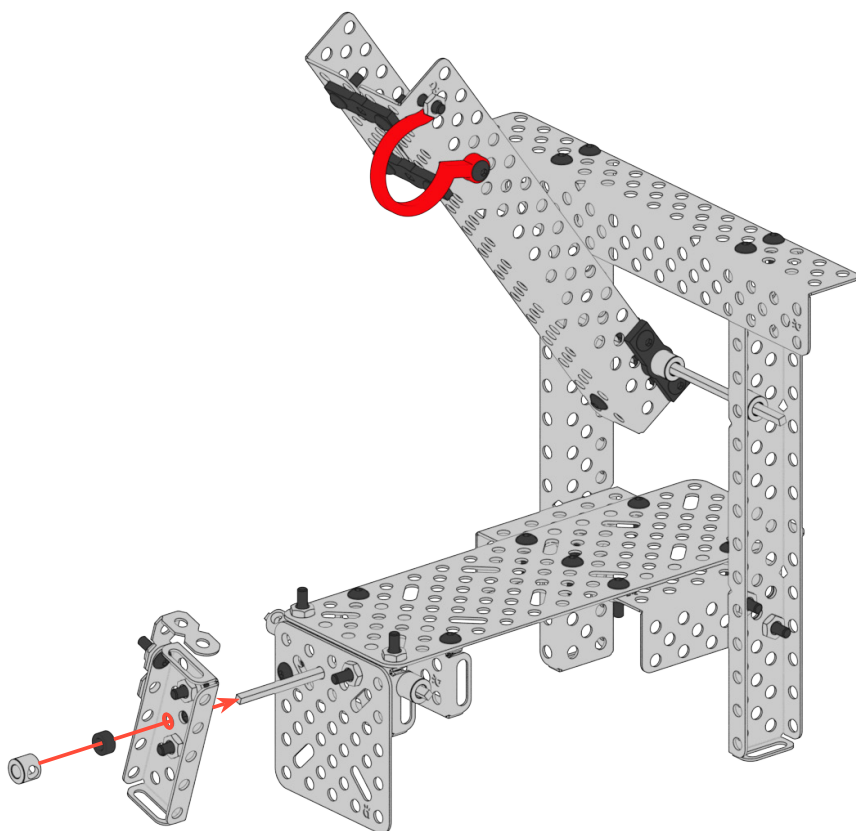
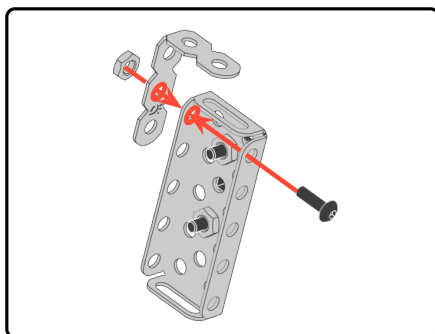
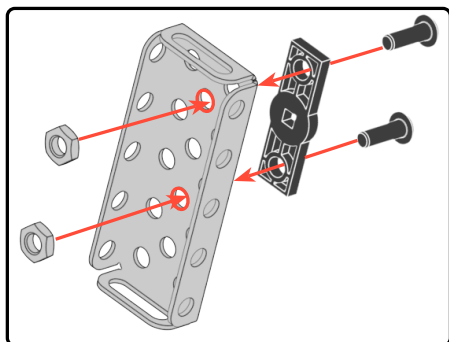
15



16

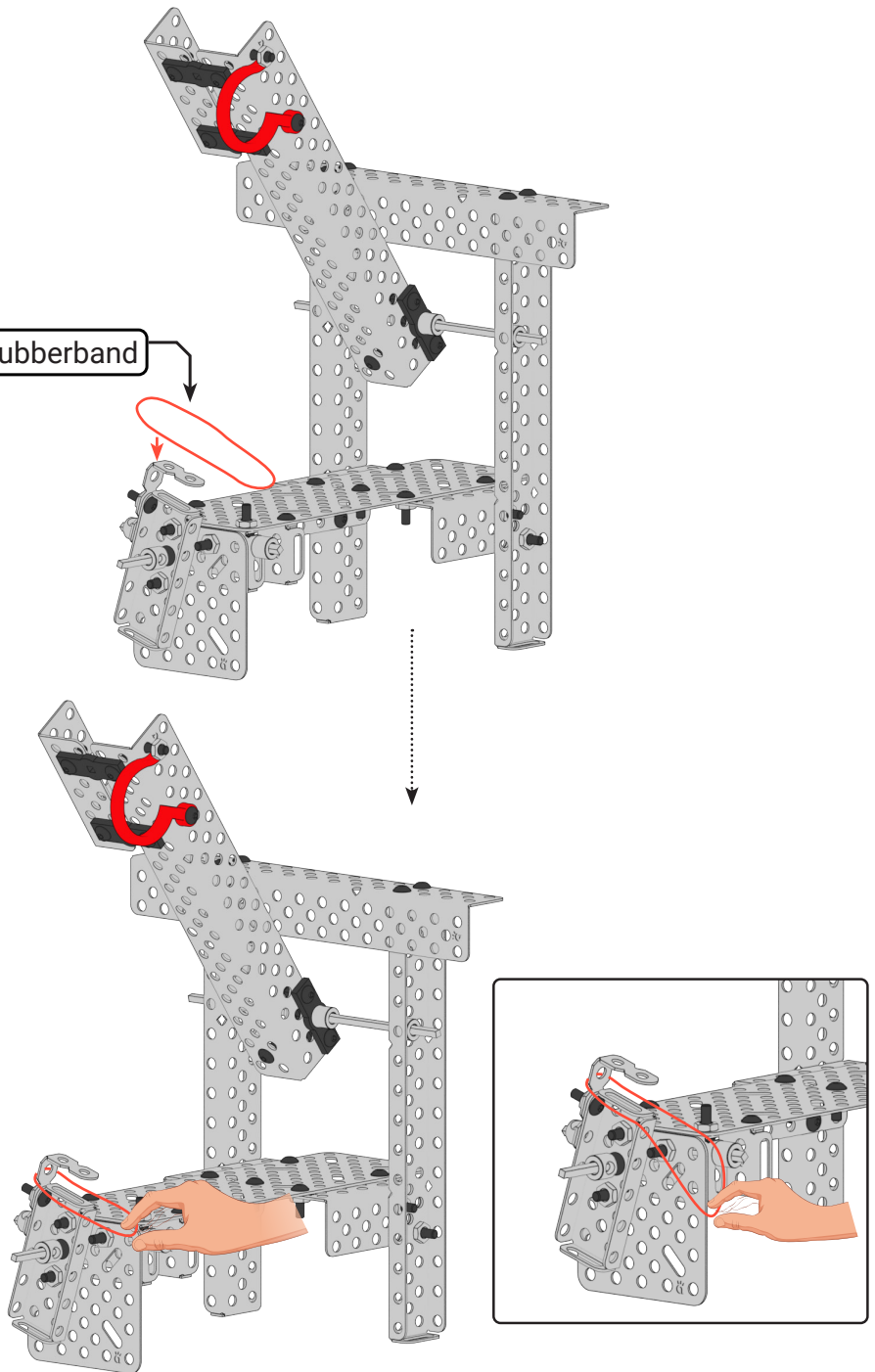


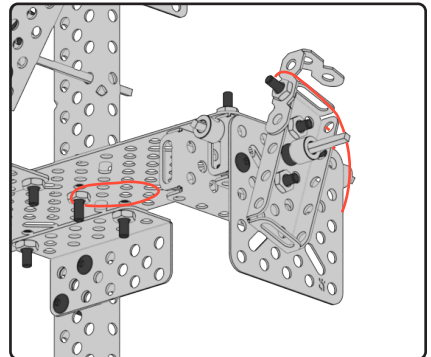
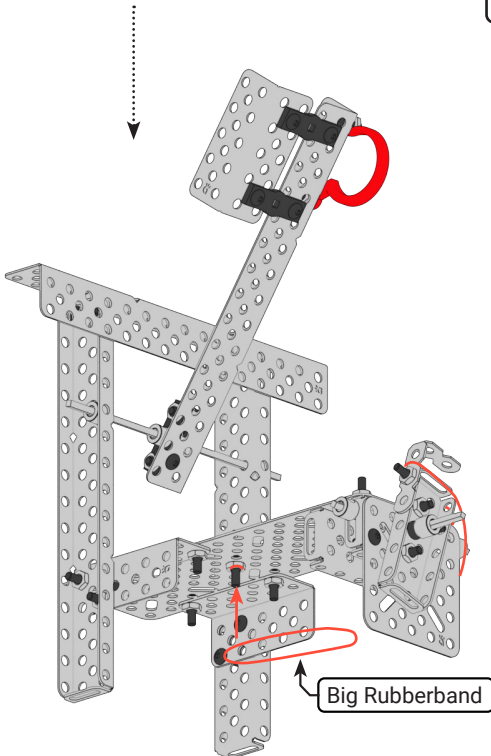
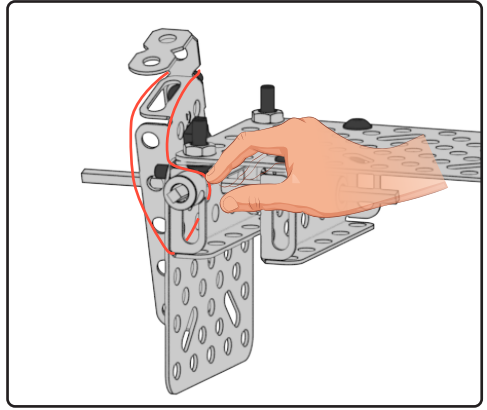
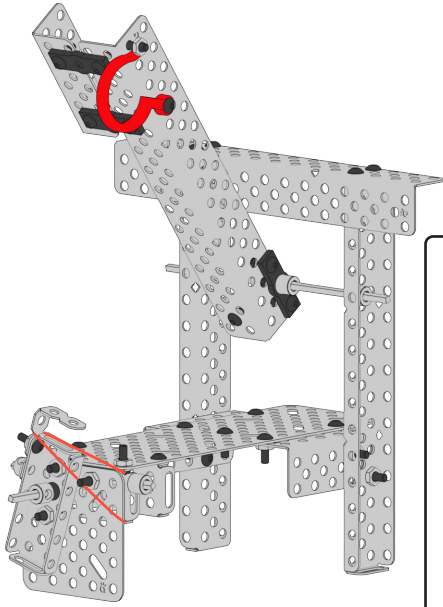
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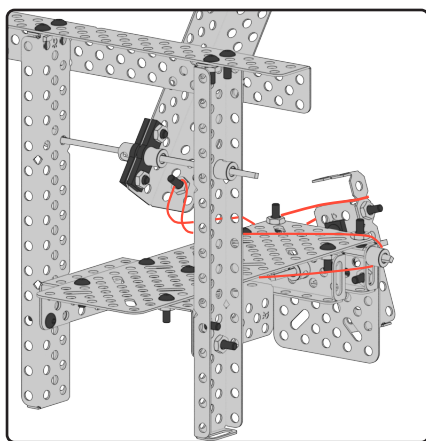
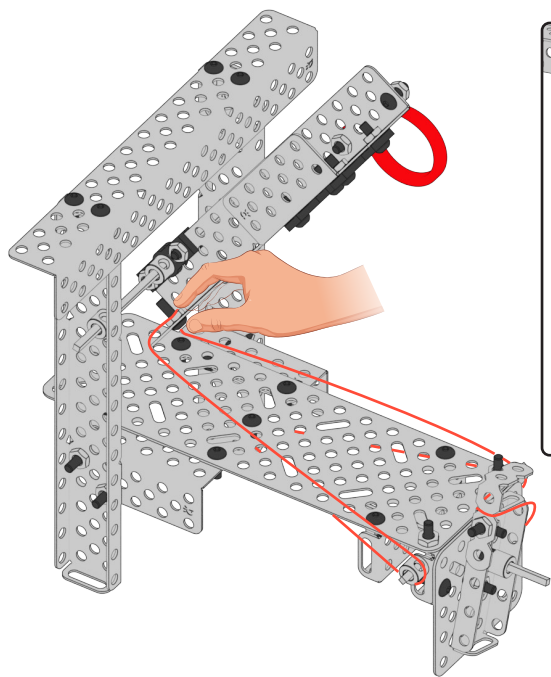
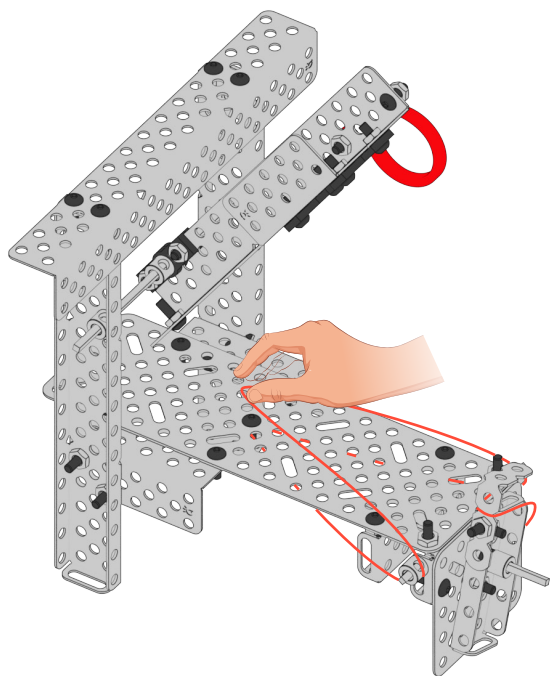


18

Small Rubberband

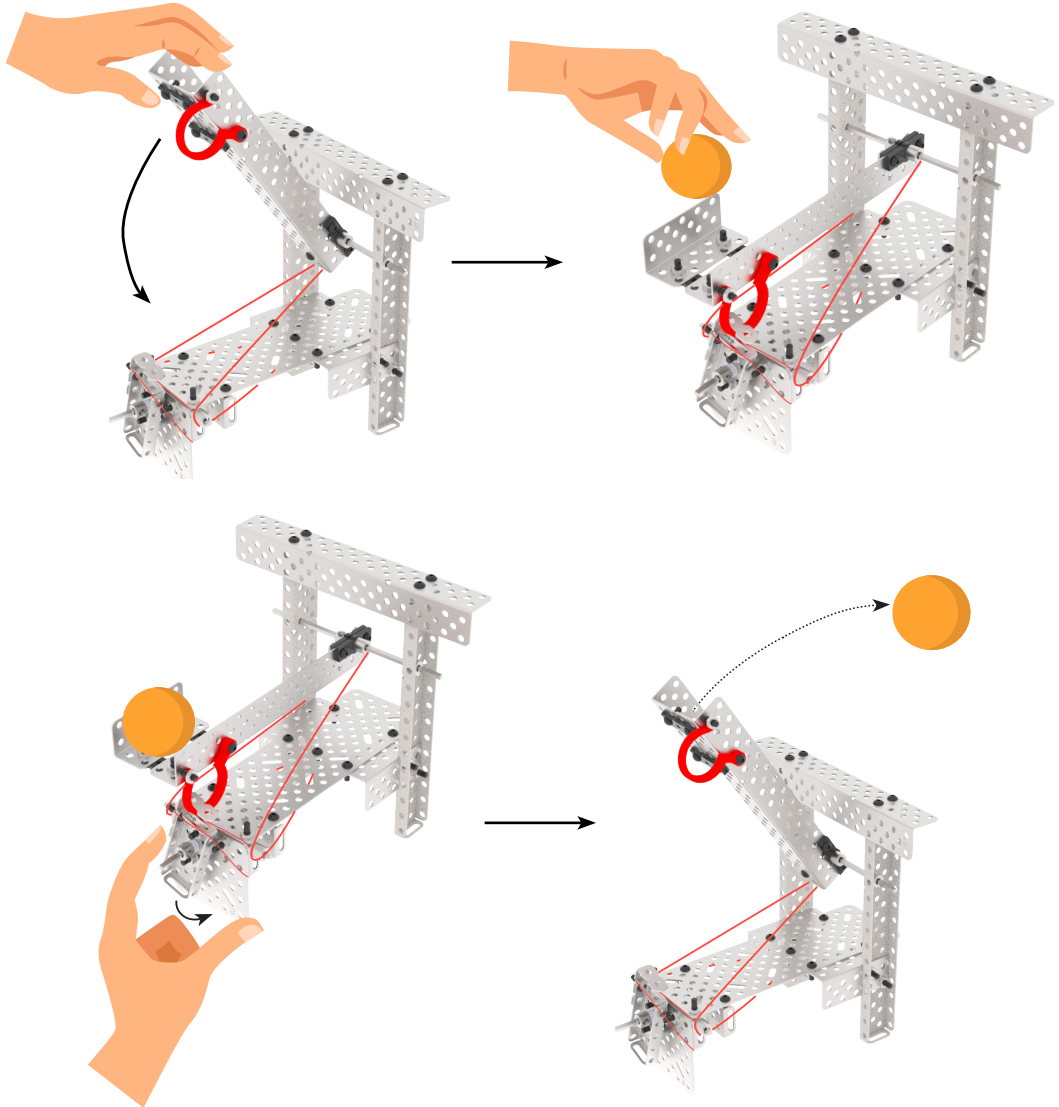




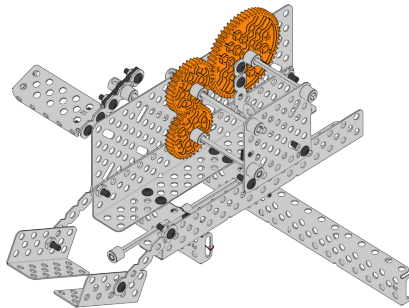


How to play

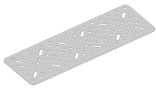
- Pull down the arm.
- Place the lock.
- Place the ball.
- Release the lock.
- Ball propels ahead.



Project 5: Ball Shooter



What will you need?



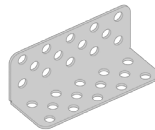
7.5"
Rectangular
plate
x1



7.5"
L-Channel
x2



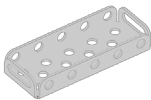
7.5"
U-Beam
x1



2.5"
L-Channel
x2



2.5"
Flexi
x5



2.5"
U-Beam
x2



Fillers
x3



Axle lock
x16



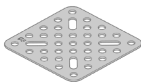
3-Hole
Connectors
x3



5.5" Axle
x2



3.5" Axle
x2



2.5"
L channel
x1



12mm Bolts
x22



Nuts
x22



Small Rubber
Band
x1

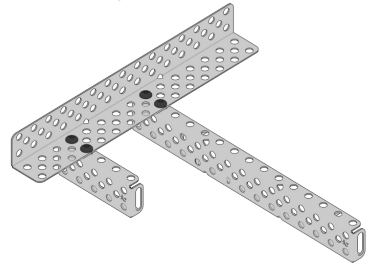
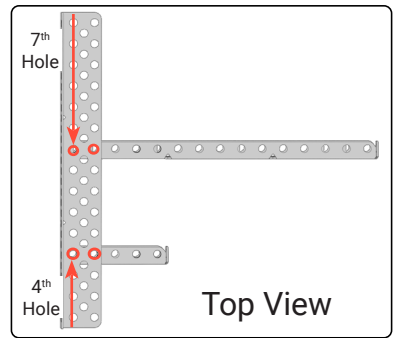
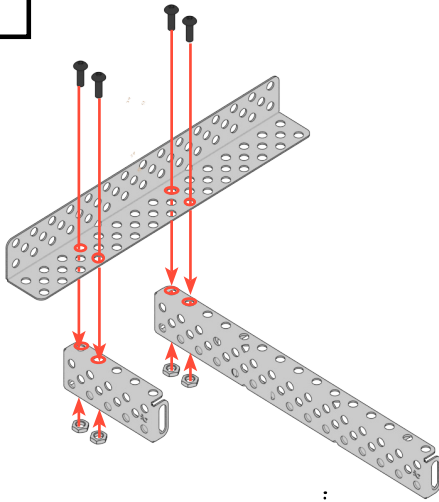


Big spur gear
x1

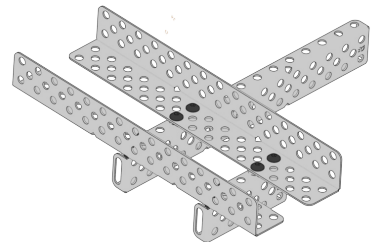
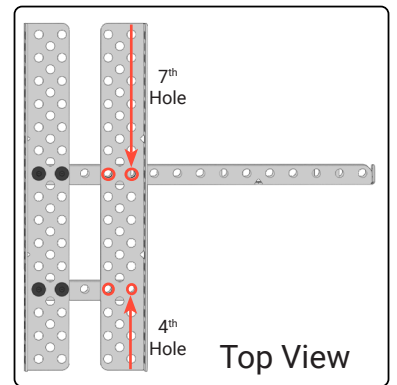
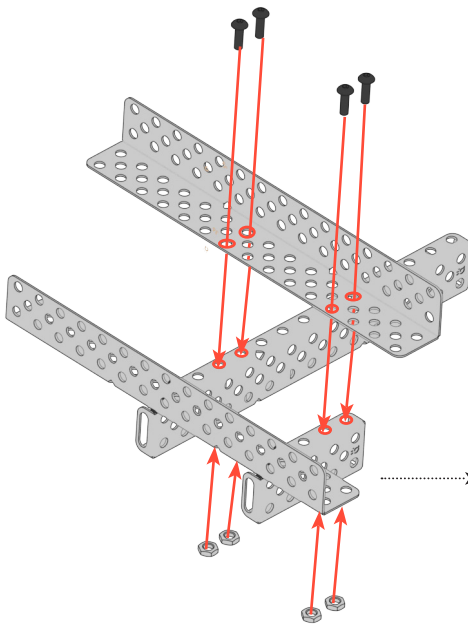


Medium spur
gear
x2

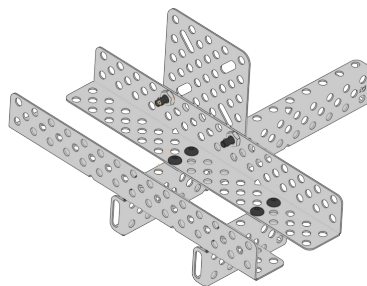
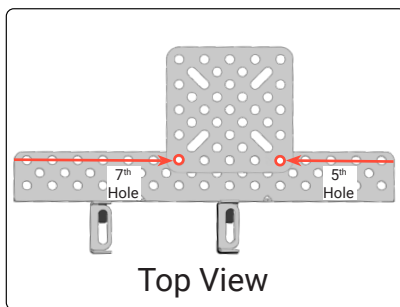
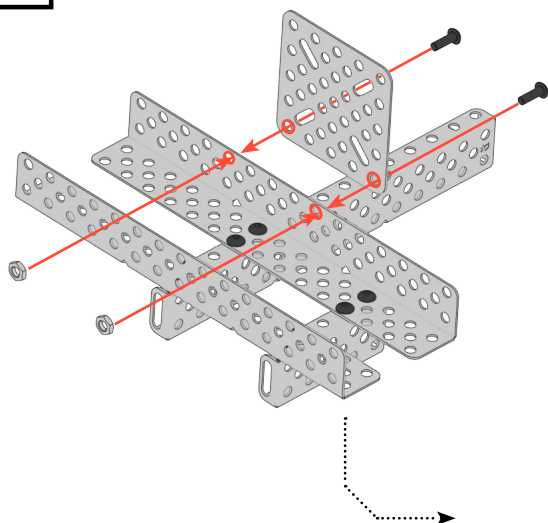
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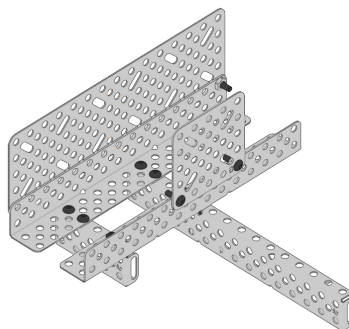
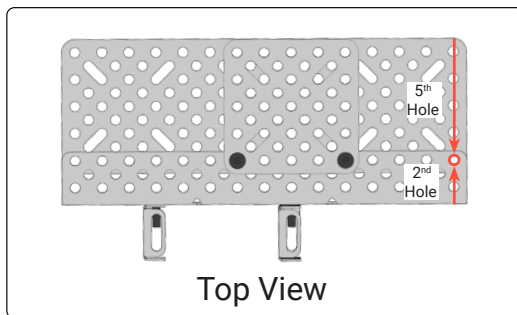
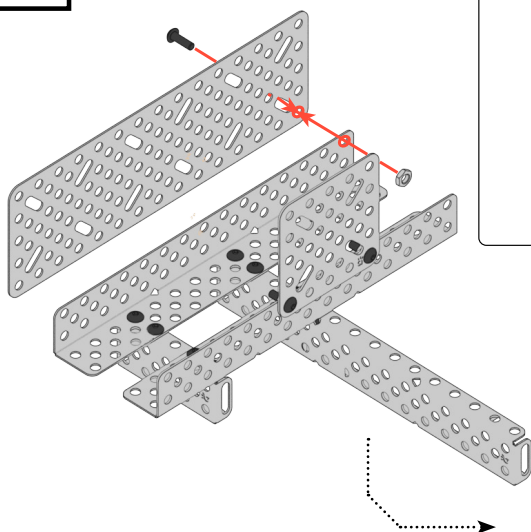
2



3

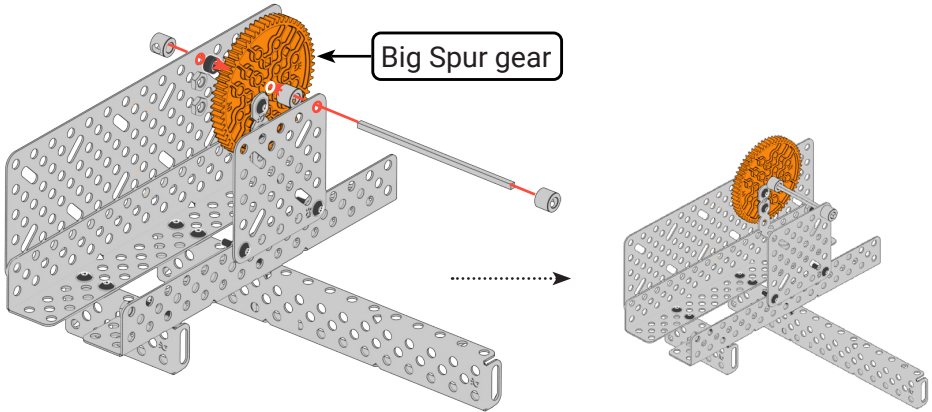
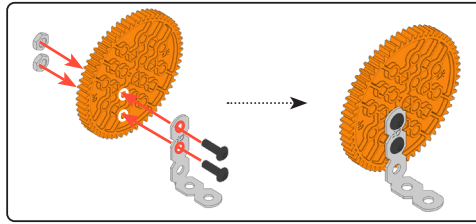


4



5

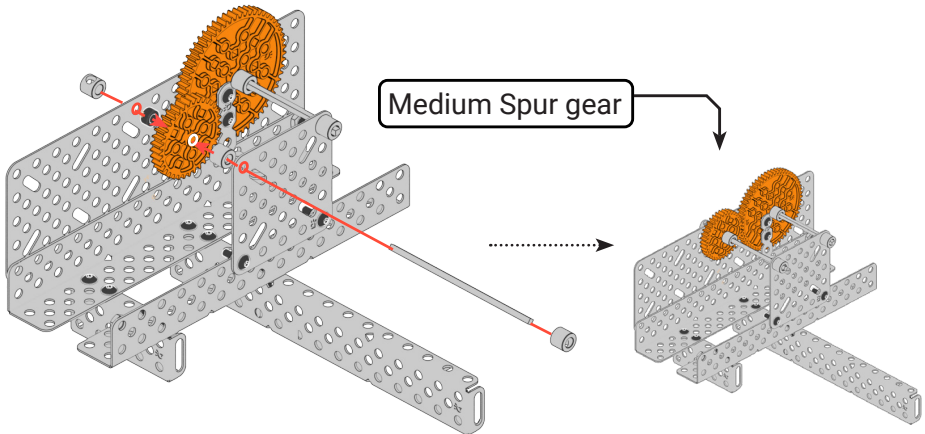
1:1 3.5 Axle



Big Spur gear

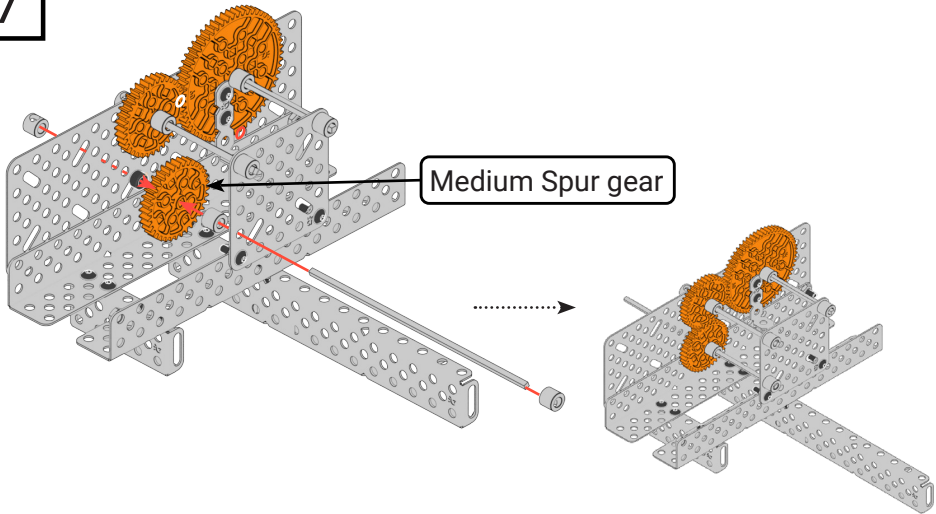
6

1:1 3.5 Axle

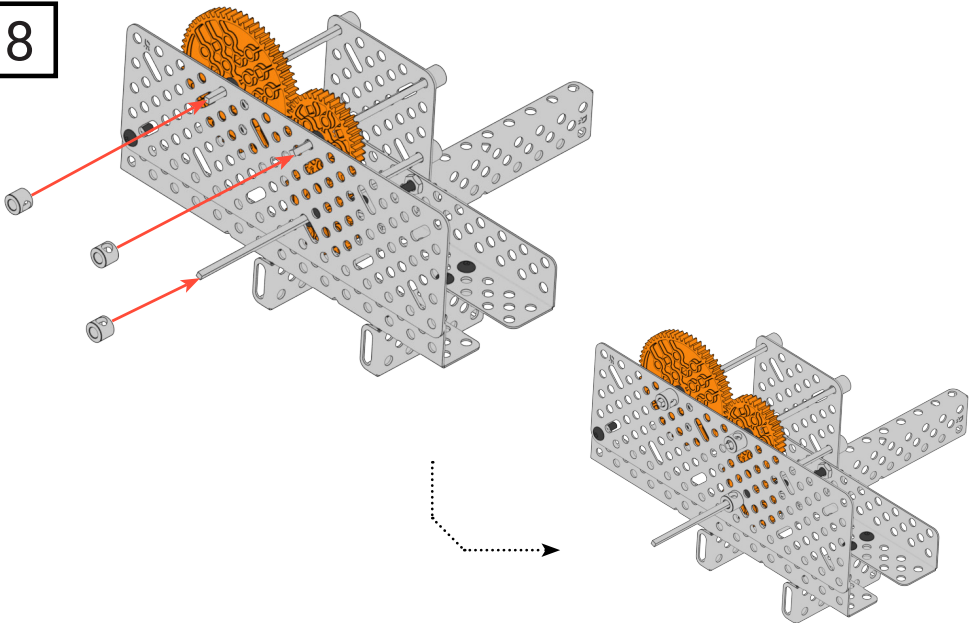


Medium Spur gear

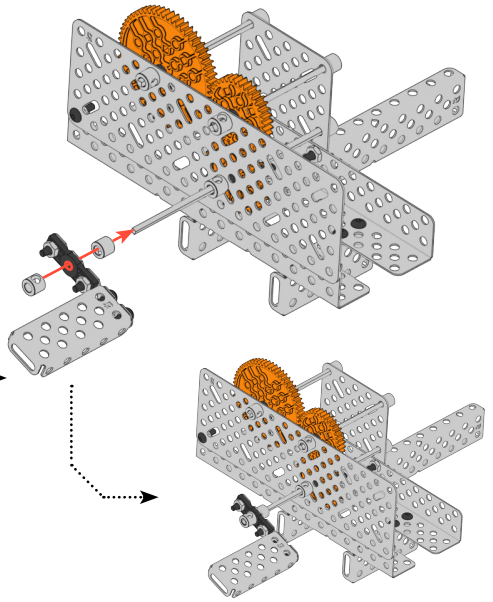
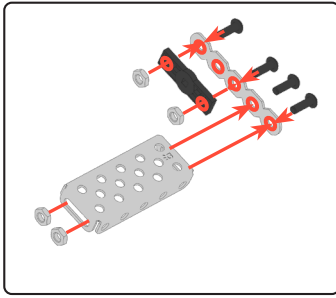
7



8

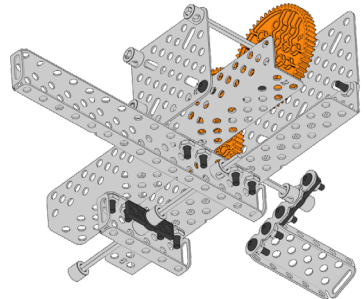
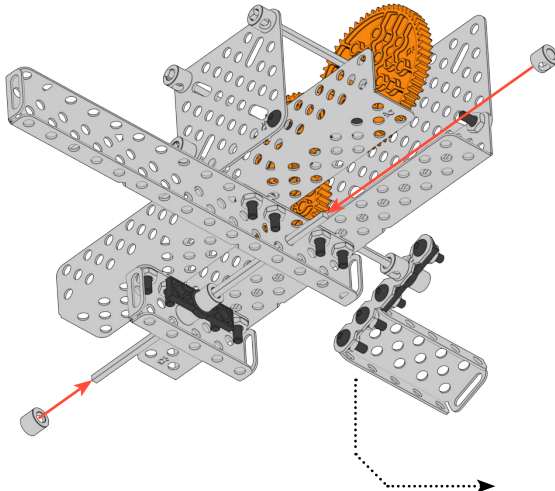


9

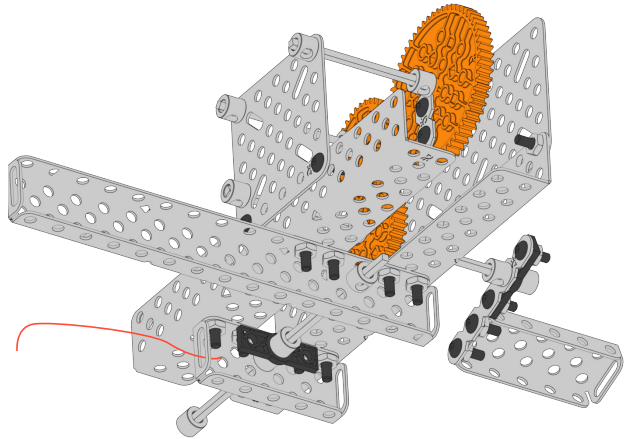
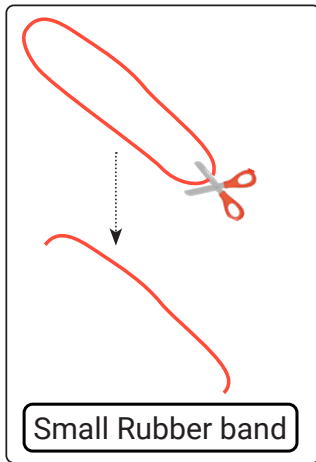


1:1 5.5 Axle

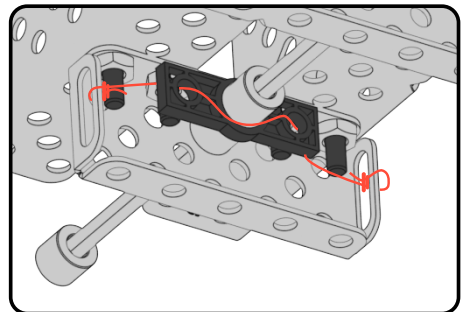
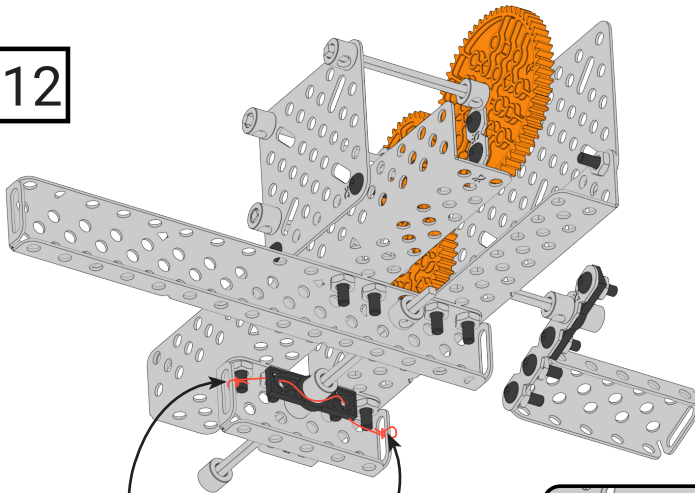
10



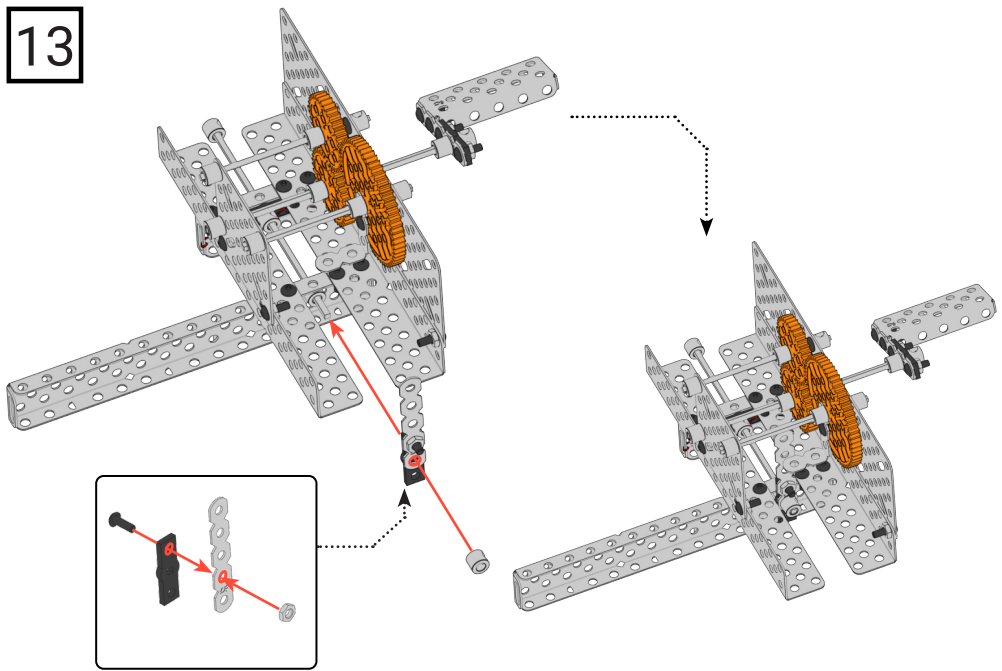
11



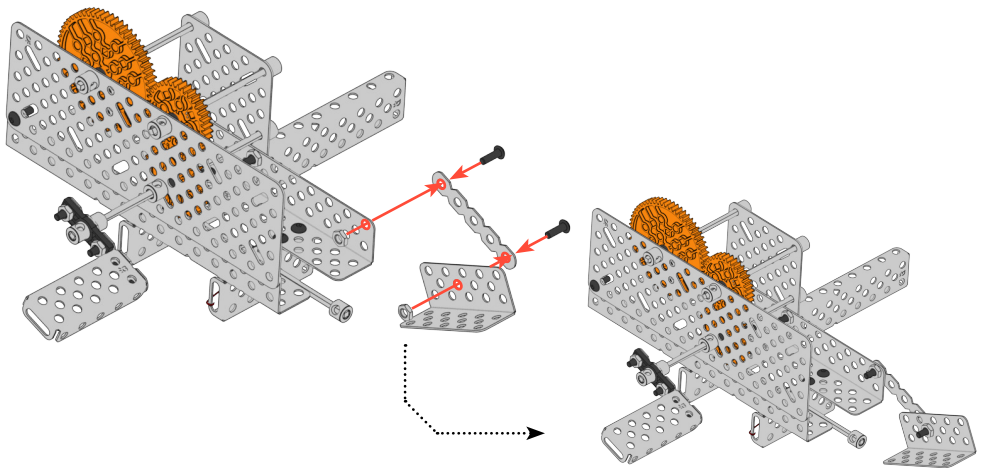
12



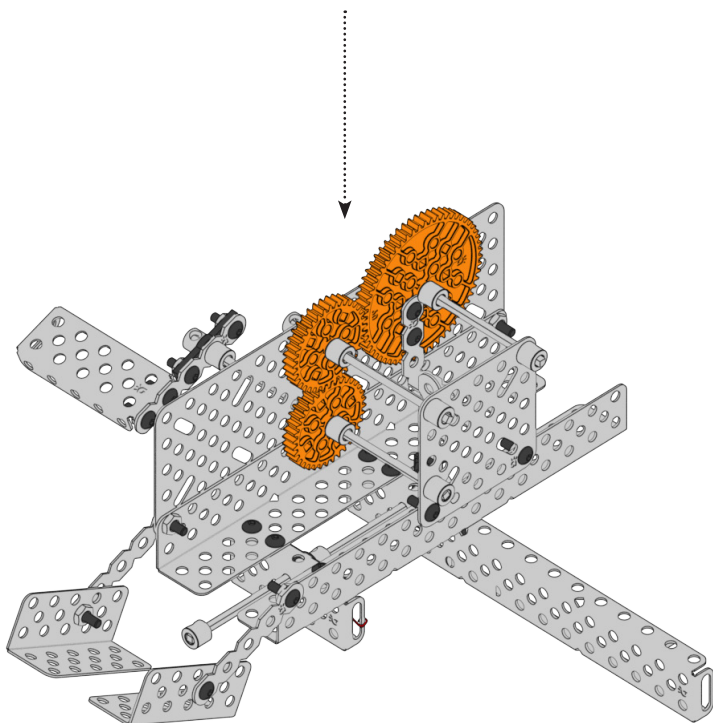
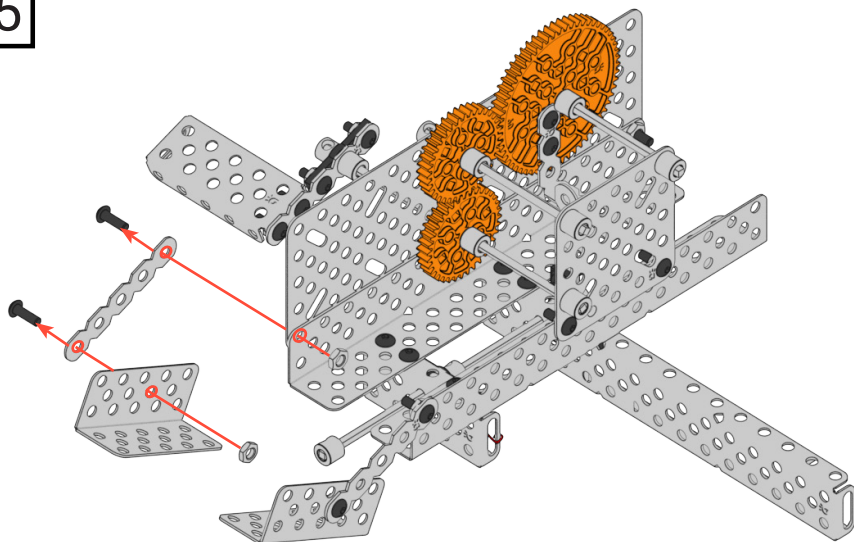
13



14

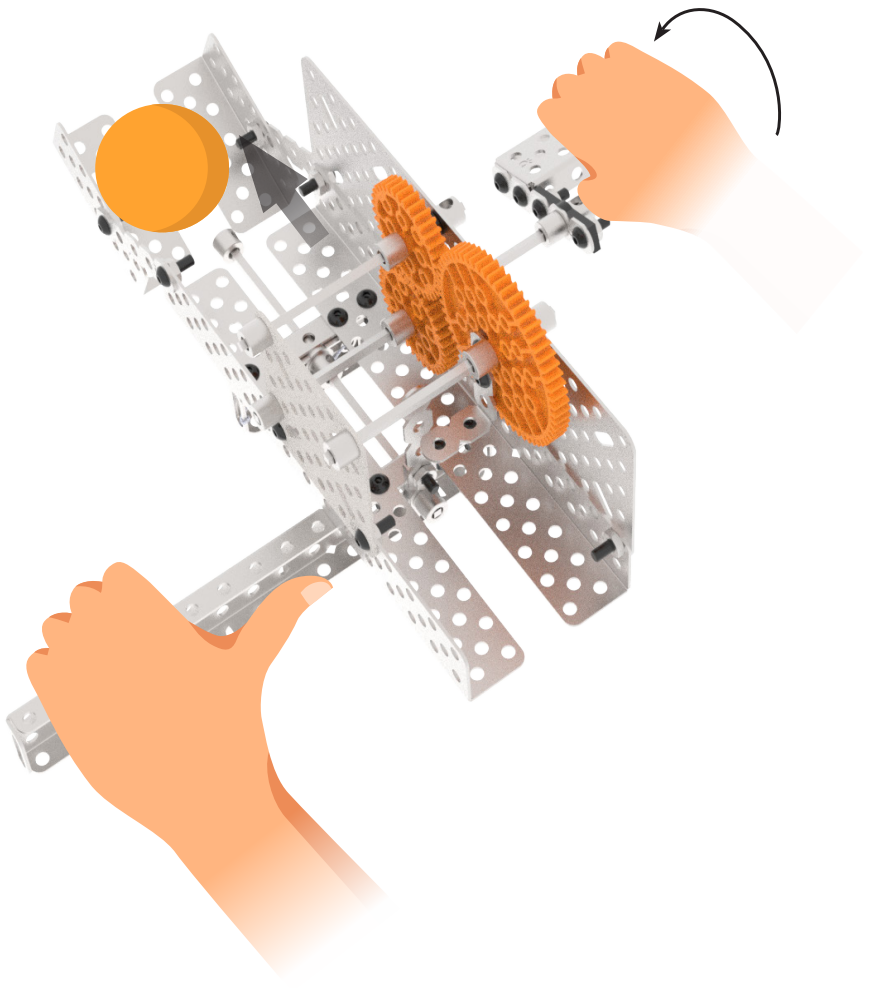


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How to play

- Place the ball in the small L-channel container.
- Rotate the lever/handle. The axle will hit the ball.



Facing an Issue?

Our technical support is available to assist you at these timings -

Monday to Saturday: 9am to 8pm

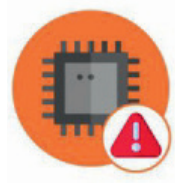
Sunday and 3rd Saturday: 9am to 6pm



Software Issues



Usability Issues



Hardware Issues

Contact support by scanning the QR Code.



support@avishkaar.cc

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