

# **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/Videos

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.

# Share ----- Win



# 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.

 $Your\ Signature$ 

# Welcome to Avishkaar

## **Download the Avishkaar App**

Download the Avishkaar App by scanning the QR codes below:









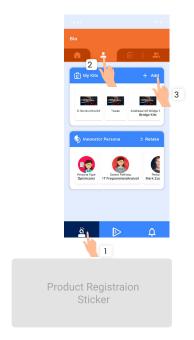
# Create an Account

Open the app and follow the on-screen steps to make an account.

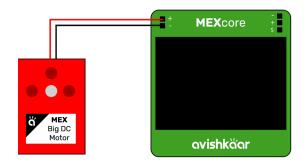


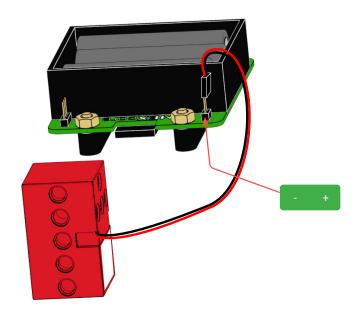
# 2 Register your Kit

Go to the 'Profile' section in the app and click on '+ Add More' in the 'My Kits' section to register your kit. This step is important to control your robot later.



# How to connect the motor to MEXcore





#### **App Control**

Insert the batteries in the MEXcore and turn it ON. You will notice the MEXcore LED blinking in green color.

Note - Use AA alkaline cells only. (Any other type of cells can damage the MEXcore.)





Turn ON the bluetooth on your phone.



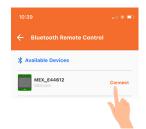


Open the Avishkaar App and click on the 'Play' button inside the 'Home' section.



Click on 'Connect'. Your app should be able to find your MEXcore if it is turned ON. Click on 'Connect' once your app detects your MEXcore.





5 Click on 'Let's Play' and select 'MEX Robotics Arm kit' in the kit selection menu.





The remote control screen will open up which will allow you to control Motor.

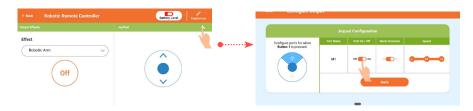


## Configure

#### Sound effects



#### Joystick





# **Armour Check**

# **Box 1 (Electronics)**





Avishkaar MEXCore x 1

MEX big DC motor x 1

# Box 2 (Construction parts)





15H Beam x 1



13H Beam





11H Beam x 1





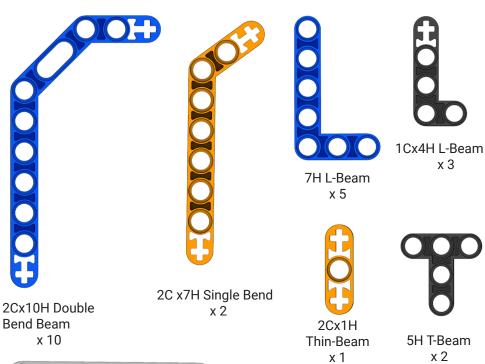
9H Beam x 2

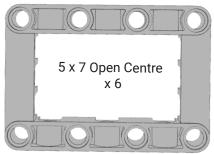


5H Beam x 2



7H Beam x 4 **Note:** 'H' stands for holes. Eg. 15H beam means beam with 15 holes.





# **FILLERS**



Axle Filler- Big x 16



х3

x 2

Axle Filler- Small x 16

# GEAR



Spur Gear-24T х3



Spur Gear16T x 2



12T Double Bevel gear x 2



20T Double Bevel gear x 1



Worm Gear-Big х3

# CONNECTORS



4 x4 Perpendicular L connector x 2



3Hx4 Pin Connector x 1



2C x 5H Triangle x 2



1C x 1H Perpendicular Connector x 2



Axle Triple Pin Perpendicular Connector x 1



Axle Angle Connector-180 x 2



Axle Angle Connector -135 x 2



2C x1H Perpendicular x 4

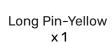
### PINS



Long Pin-Blue

x 13







Medium Pin-Black x 22



Medium Pin-Grey x 2



Medium Axle Pin-Blue x 2



Short Pin-Yellow x 2

**Note:** 'Note: 'C' stands for 'Cross'. Eg - '1CX4H L-Beam' has one cross and four holes.

# All About Axles

12<sup>th</sup> Hole

13th Hole

NOTE: The axles are in 1:1 with the imprinted slots ((XHAXE)) in manual.

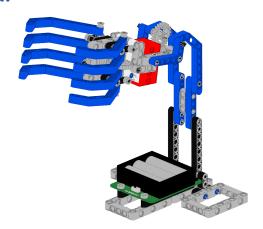
10H Axle (1) 8 H Axle (3) 7 H Axle (1) 6 H (4)  $\begin{array}{c} 5\,\text{H} \\ \text{capped} \\ \text{Axle} \\ \end{array}$ 5 H Axle (1) 4H Axle (2) 3H Ax le (3)

13 H Beam

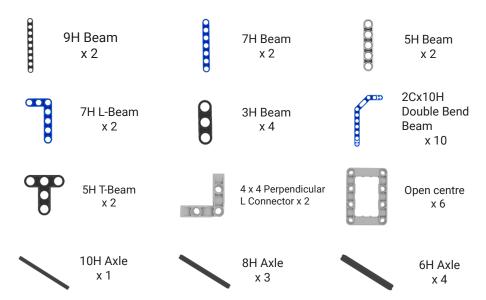
11th Hole
10th Hole
9th Hole
8th Hole
7th Hole
6th Hole
3th Hole
3th Hole
3th Hole

# **Project 1: MEX Grabber**

#### **Let's Build!**



#### Things we need







Spur Gear24T x 3



Worm Gear-Big x 3



2C x1H Perpendicular x 4



Axle Filler-Big x 3



Axle Filler- Small x 14



Medium Pin-Black x 20



Long Pin-Blue x6



Medium Axle Pin-Blue x 2



3Hx4Pin Connector x 1

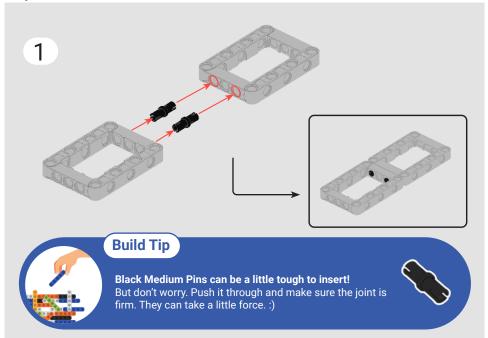


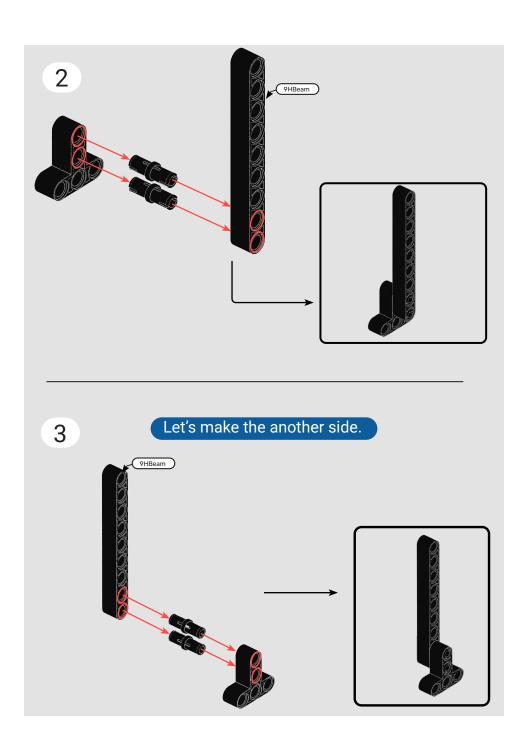
MEX Big DC Motor x 1

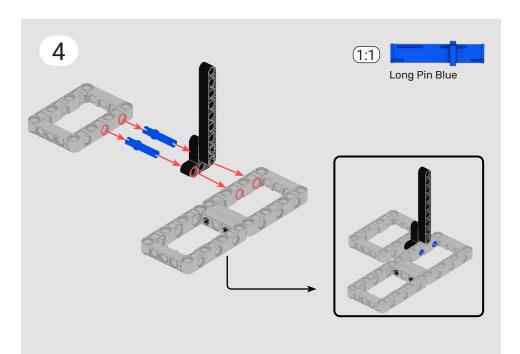


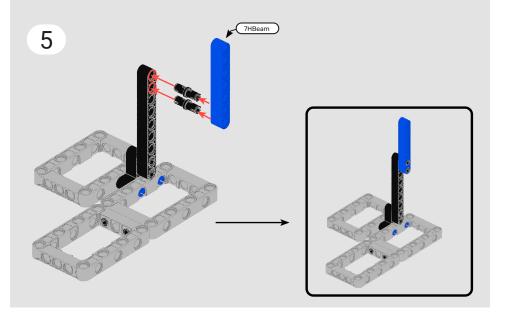
Avishkaar MEXCore x 1

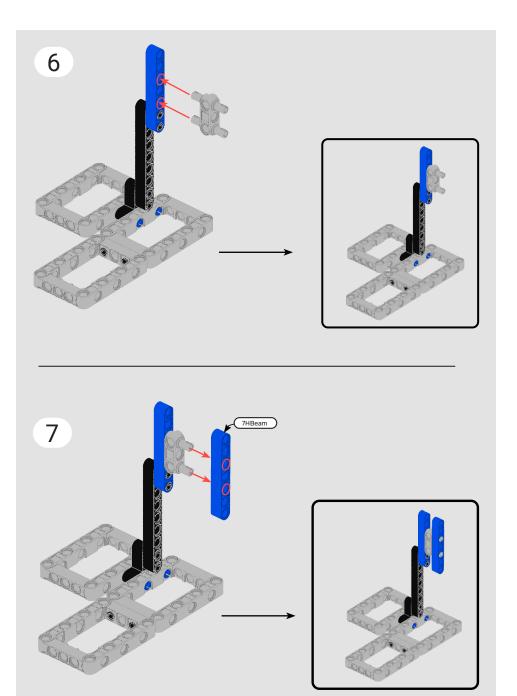
#### Steps

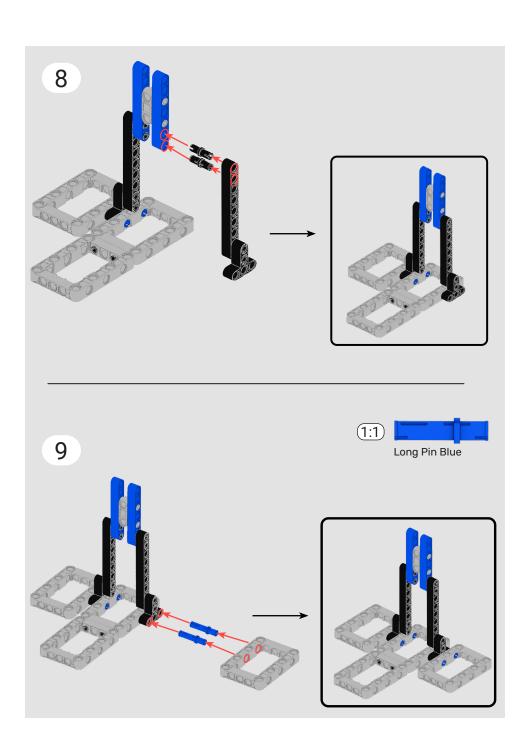


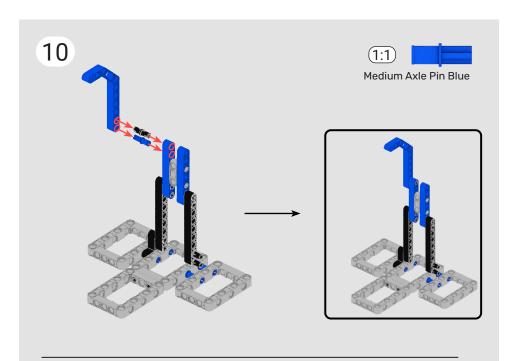


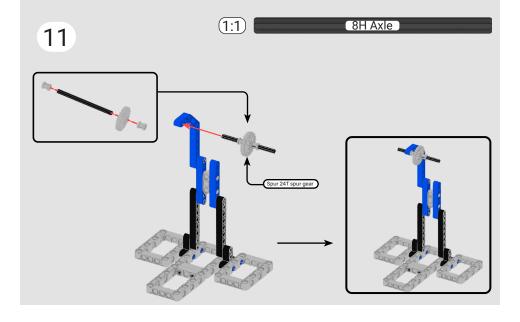


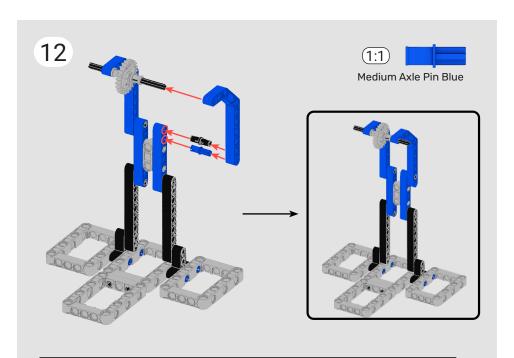


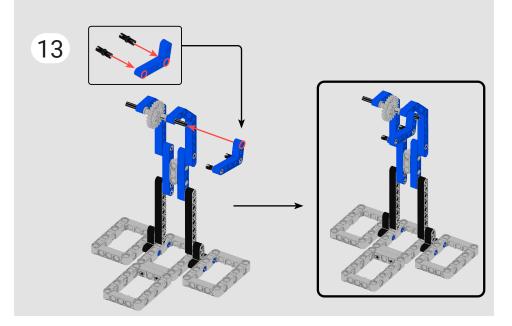


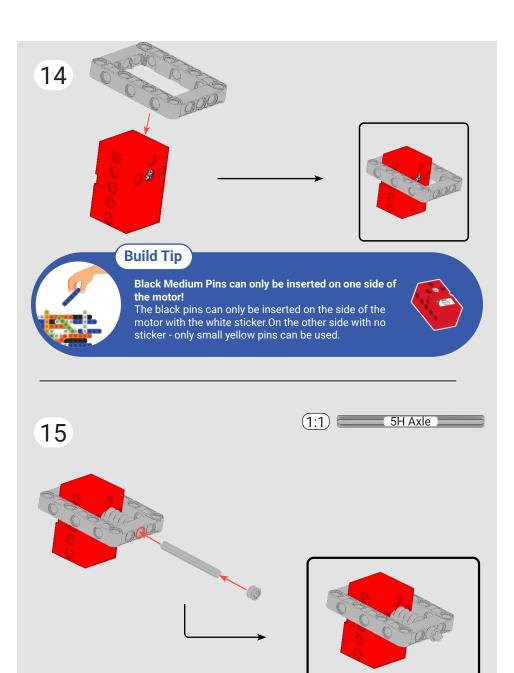




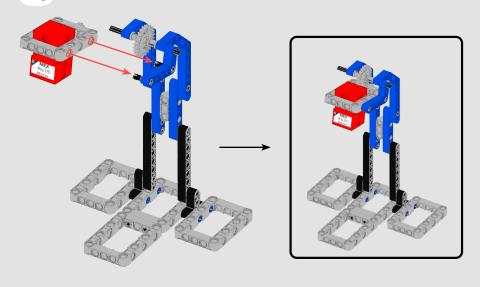


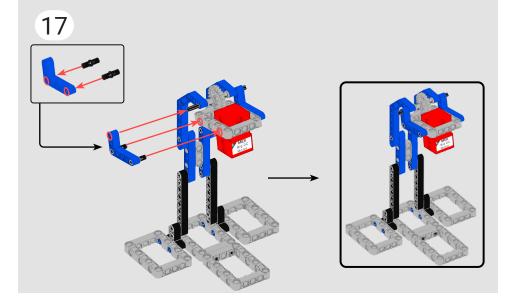


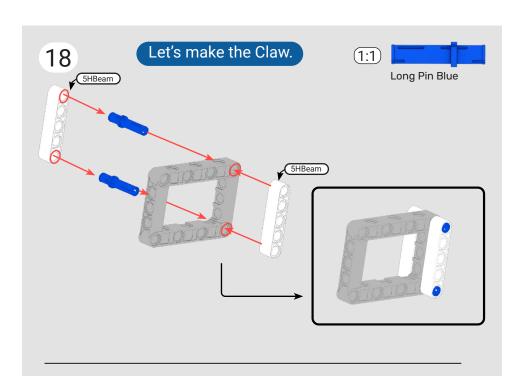


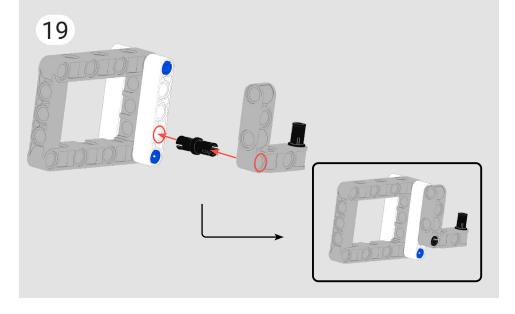


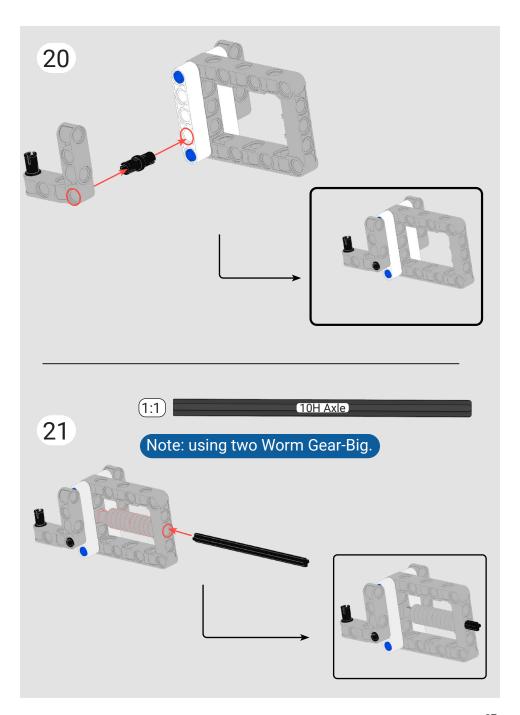
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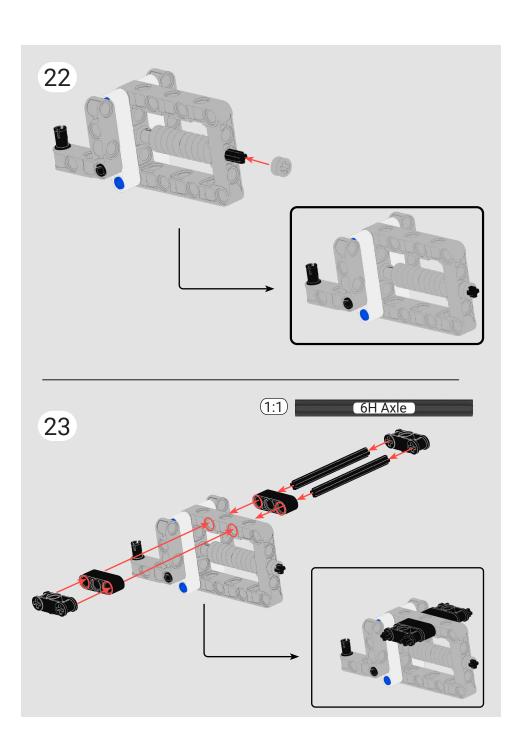


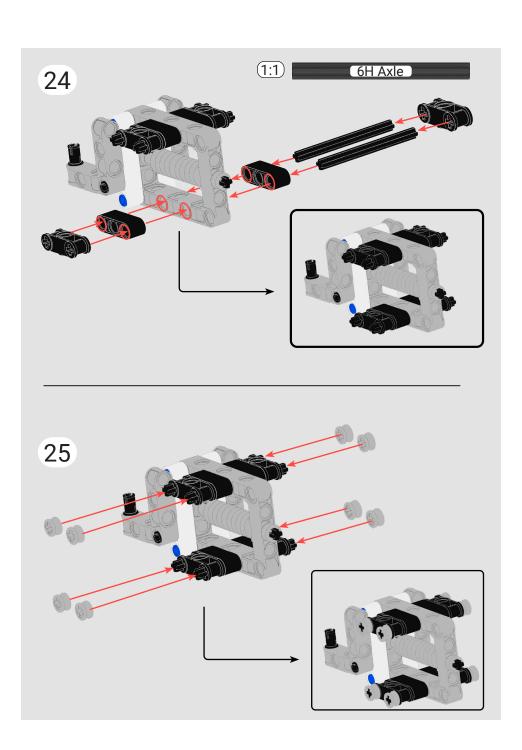


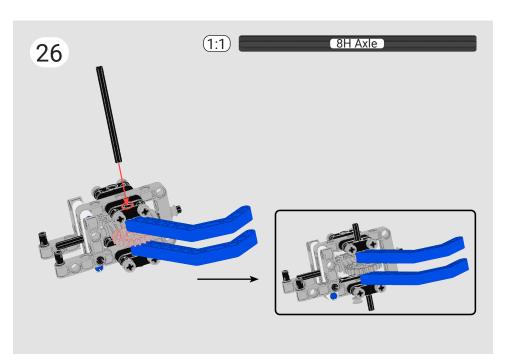


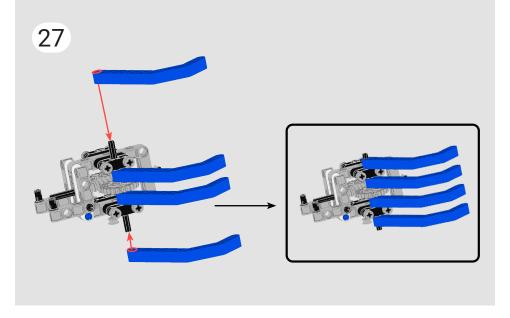


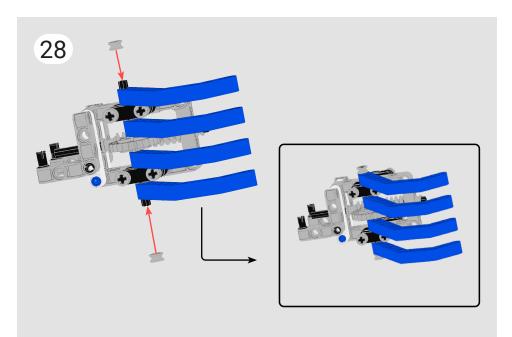


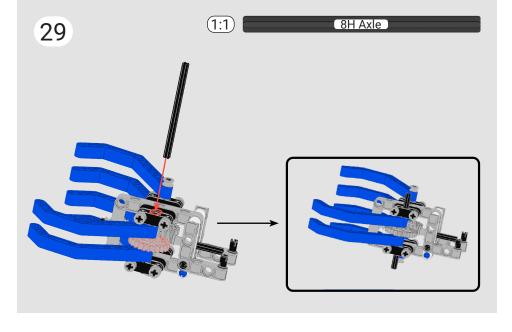


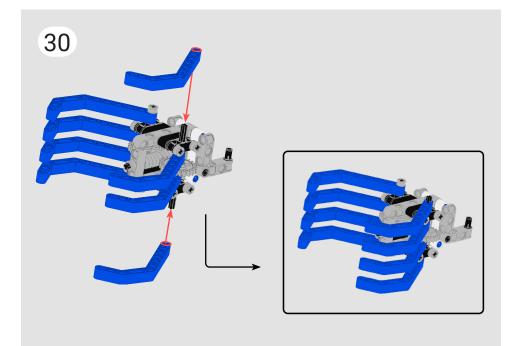


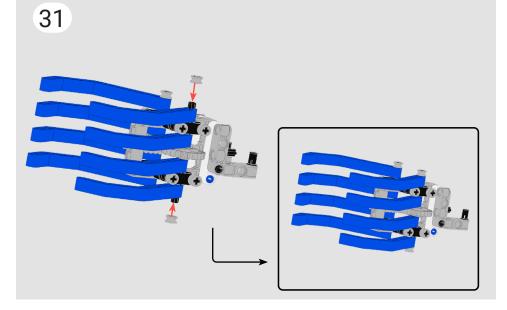












# Congratulations on Completing this Project!

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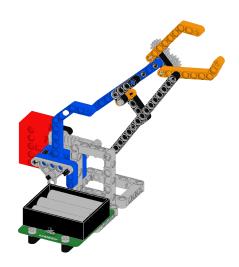
Explore all other badges to be collected and win them all!



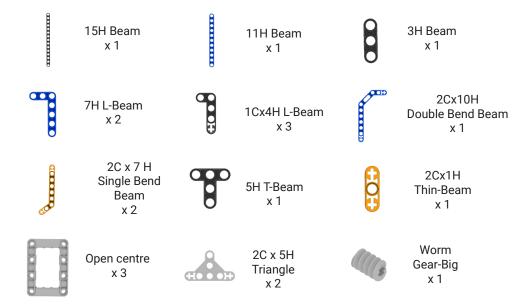


# **Project 2: MEX Cyber Claw**

#### **Let's Build!**



#### Things we need





Spur Gear16T x 2



Spur Gear24T x 1



Axle Filler-Big x 5



Axle Filler- Small x 9



1Cx1H Perpendicular Connector x 2



3H Axle x3



7H Axle x 1



8H Axle x 3



Medium Pin-Black x9



Medium Pin-Grey x 1



Medium Axle Pin-Blue x 2



Shot pin yellow x 1



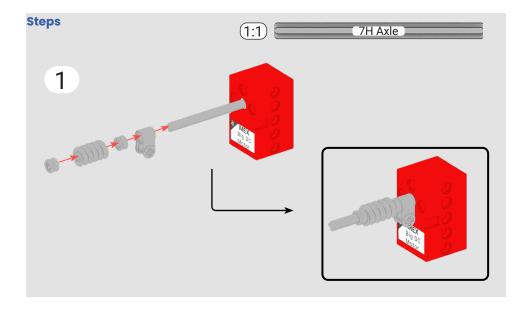
Long Pin-Blue x3

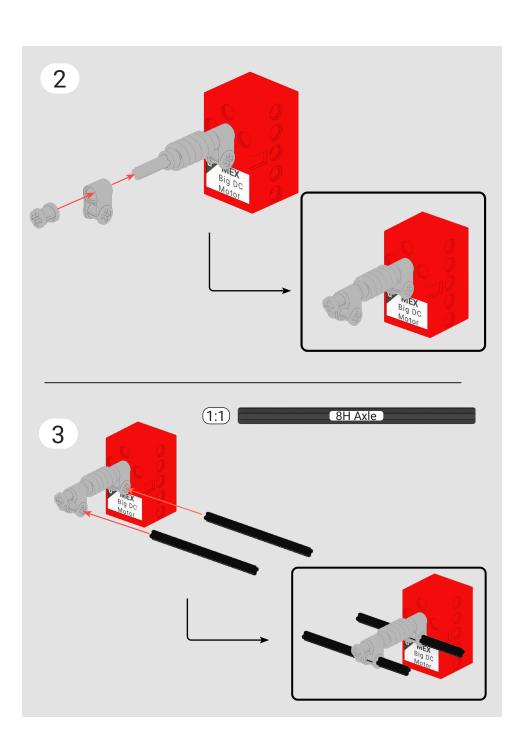


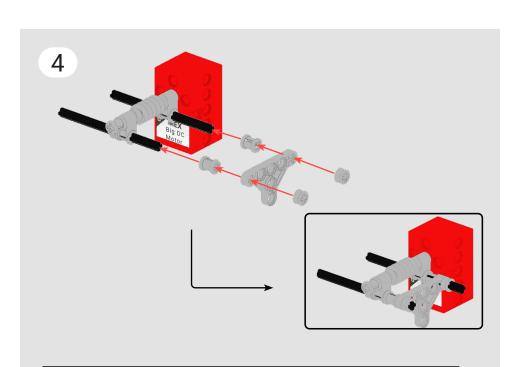
MEX Big DC Motor x 1

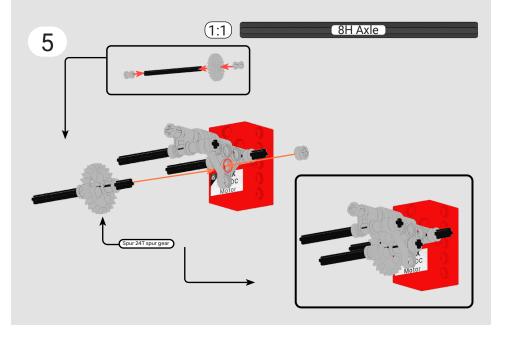


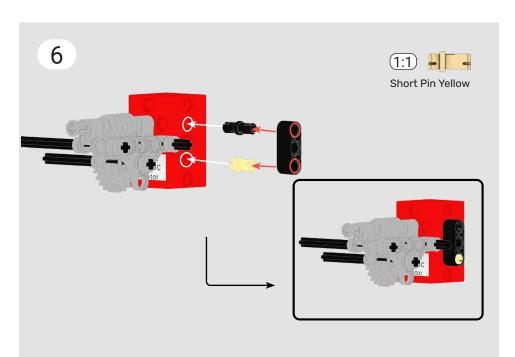
Avishkaar MEXCore x 1

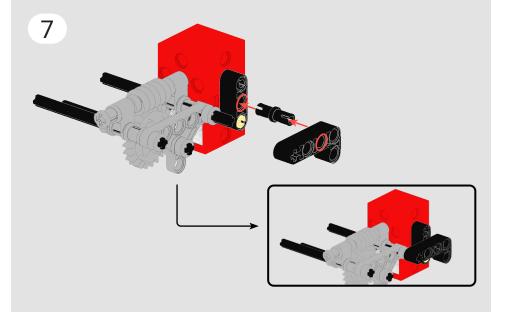


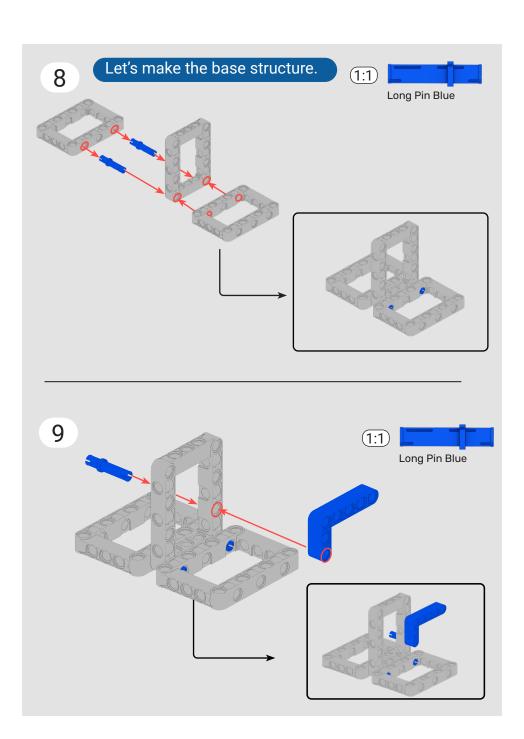


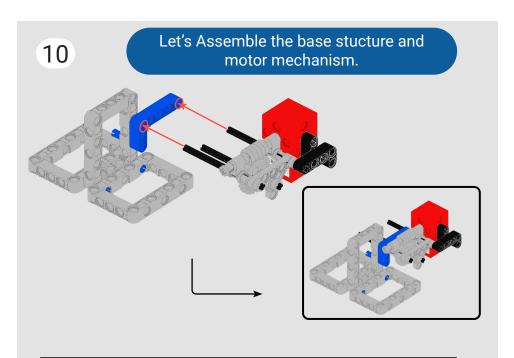


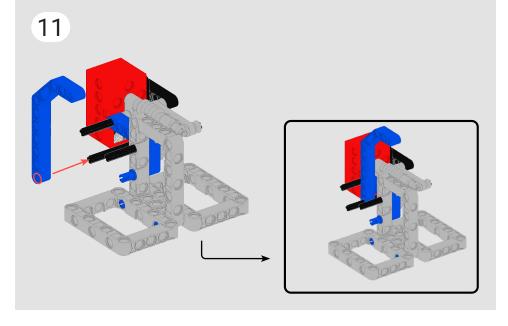


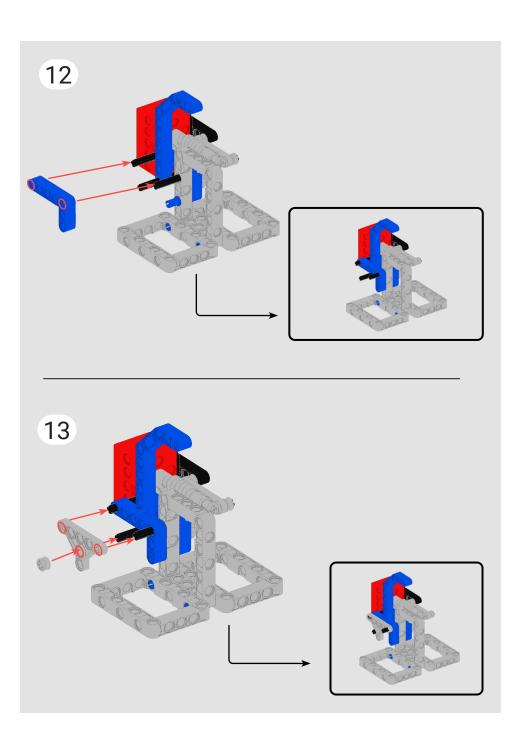


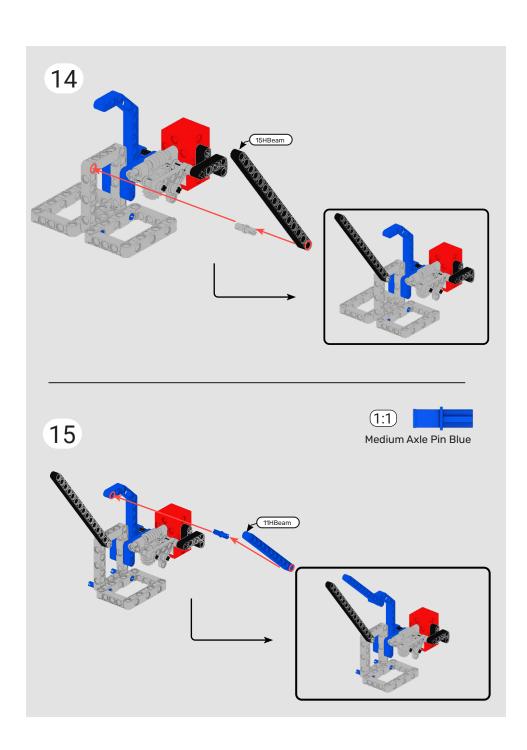


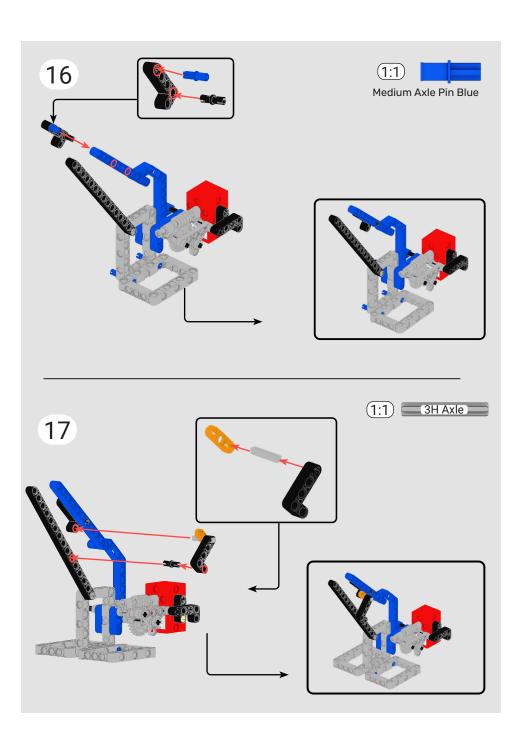


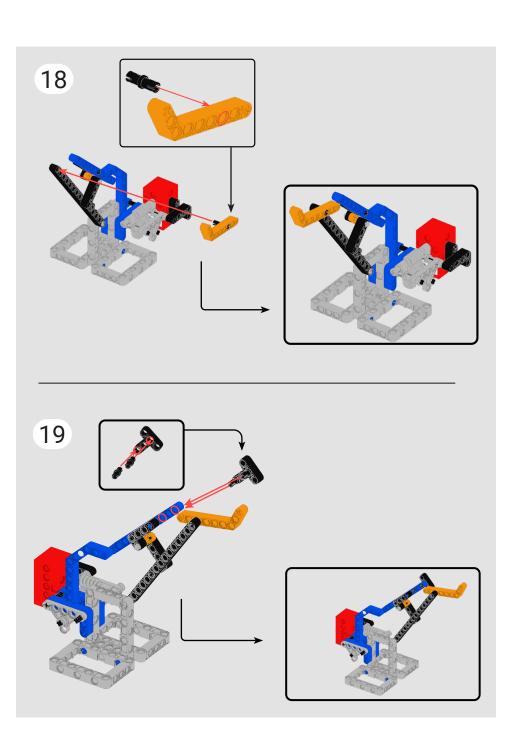


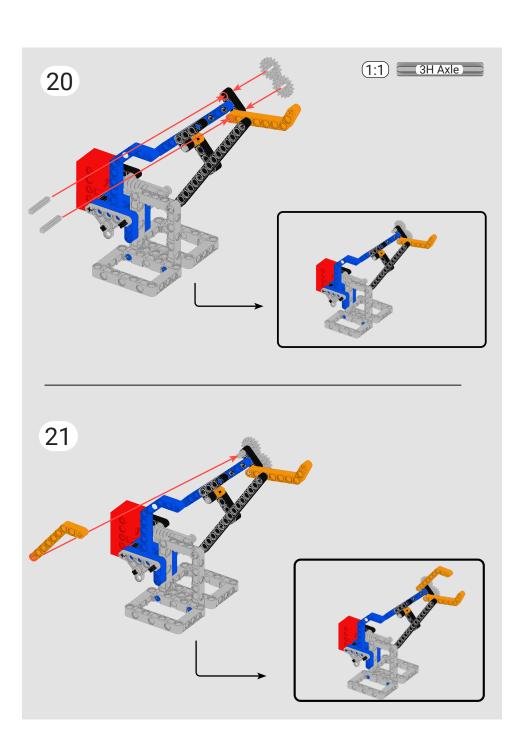


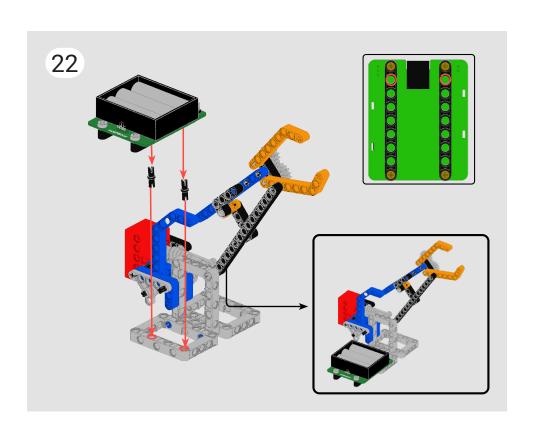












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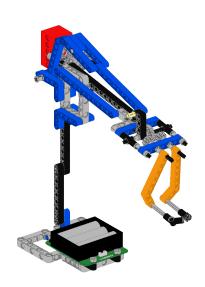
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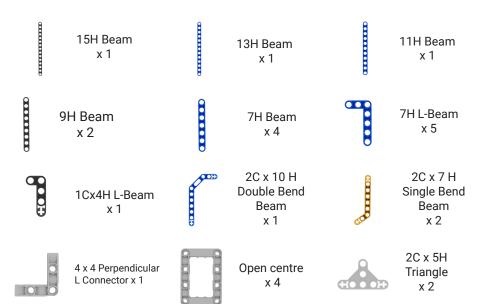


### **Project 3: MEX Robo Lift**

#### Let's Build!



#### Things we need





Worm Gear-Big x 1



12T Double Bevel gear x 2



20T Double Bevel gear x 1



Spur Gear24T x 3



Axle Triple Pin Perpendicular Connector x 1



1Cx1H Perpendicular Connector x 1



Axle Filler- Small x 12



Axle Filler-Big x16



3H Axle x1



5H Capped Axle x 2



6H Axle x 4



8H Axle x 2



10H Axle x 1



Shot pin yellow x 1



Medium Pin-Black x 13



Medium Axle Pin-Blue x 2



Long Pin-Blue x 13



Long Pin Yellow x 1



Axle Angle Connector -180 x 2



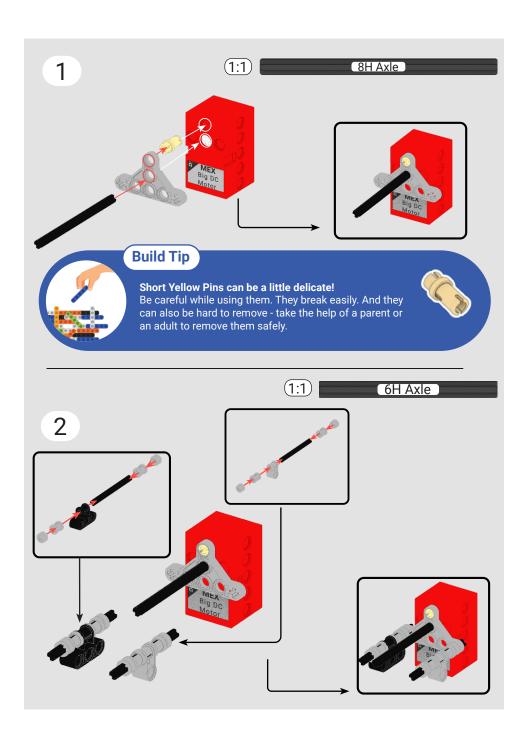
Axle Angle Connector-135 x 2

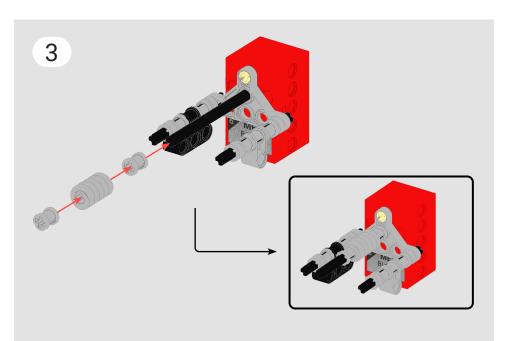


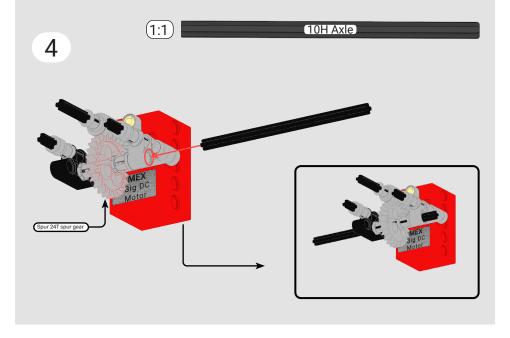
Avishkaar MEXCore x 1

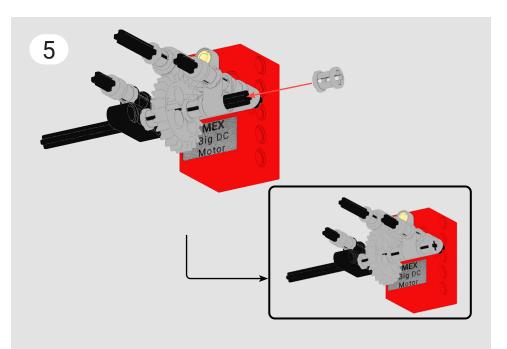


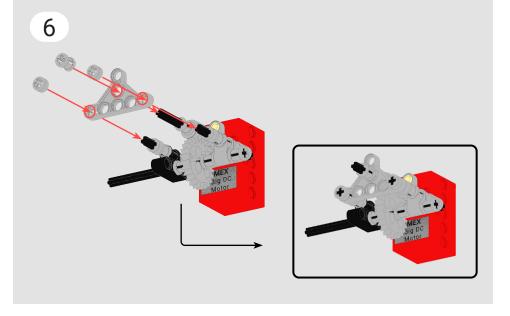
MEX Big DC Motor x 1

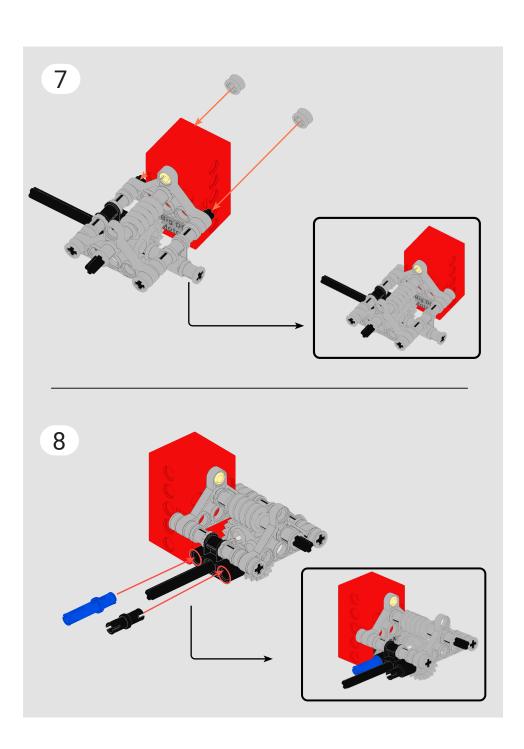


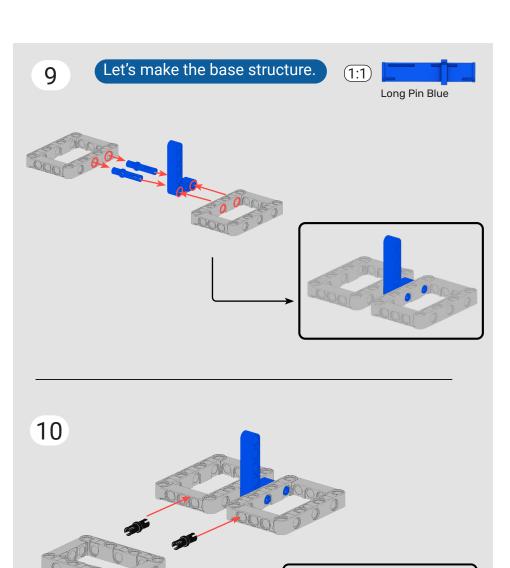


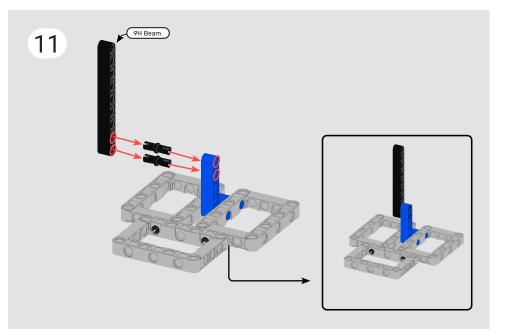


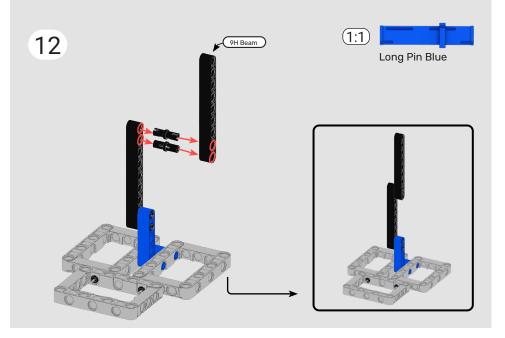


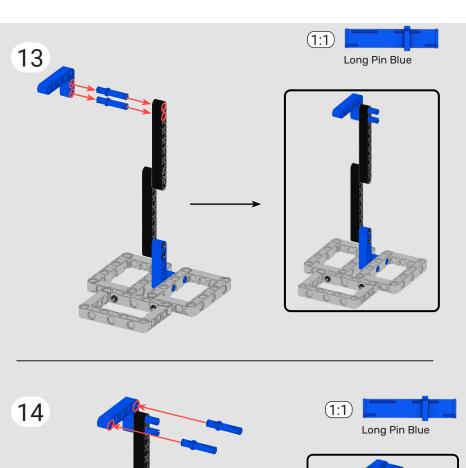


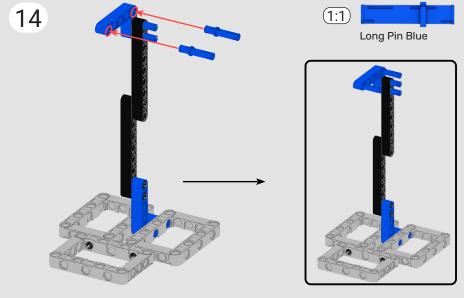


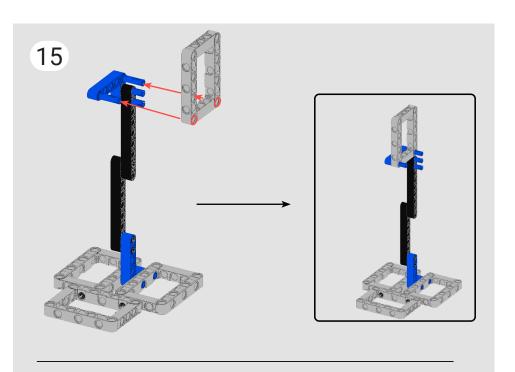


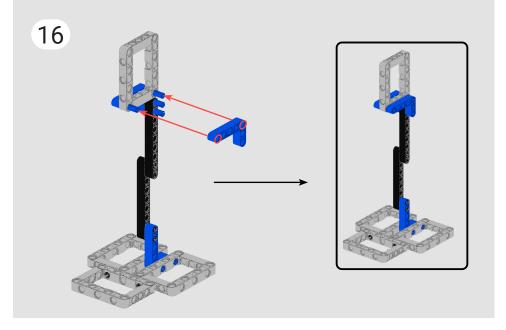


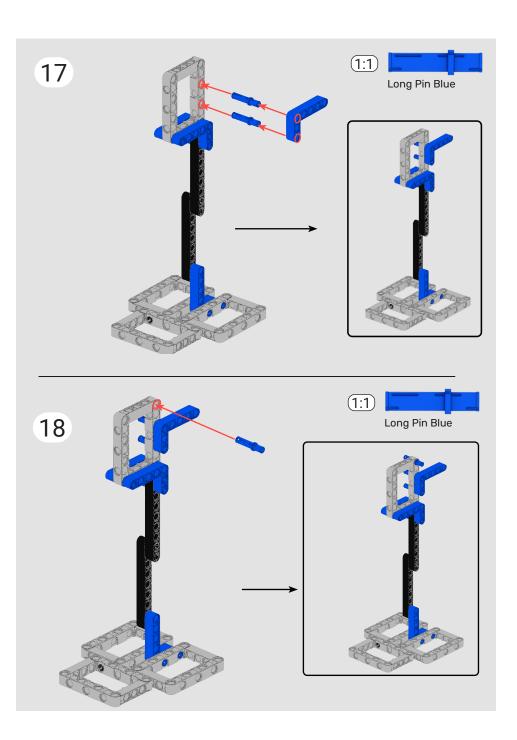


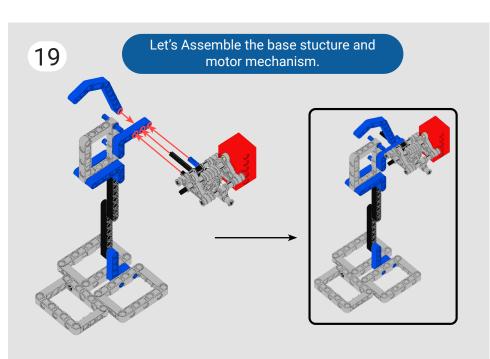


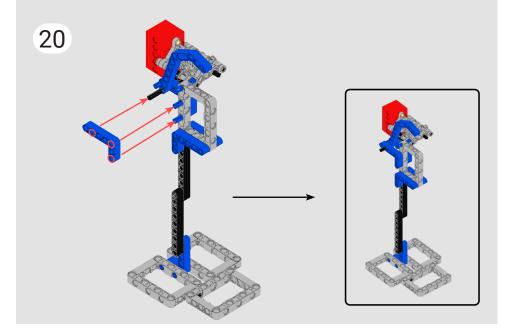


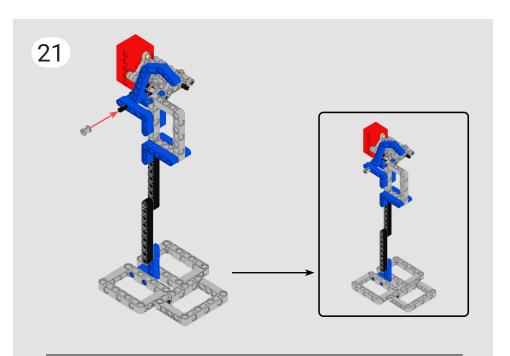


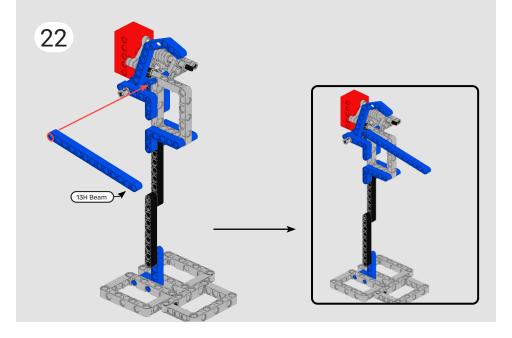


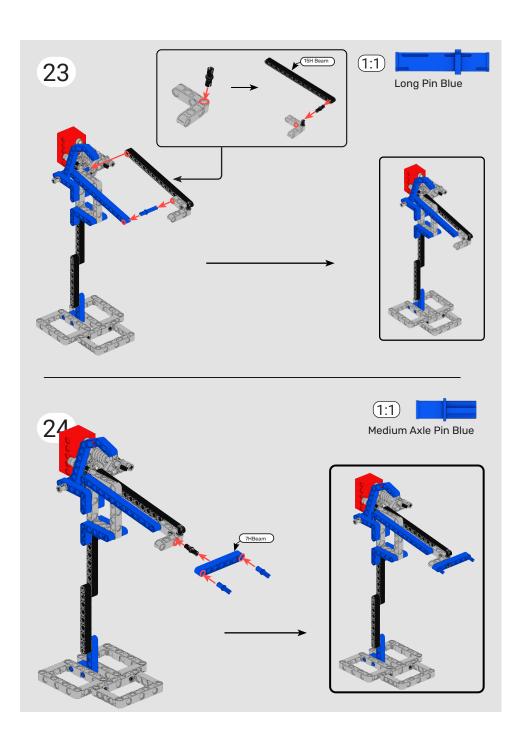


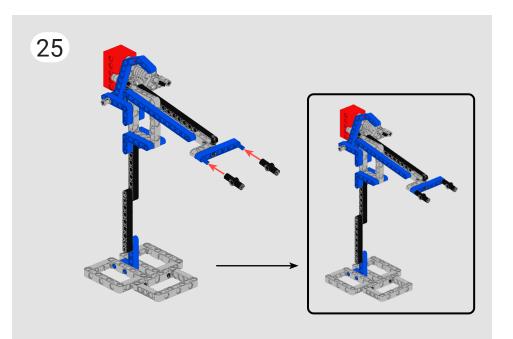


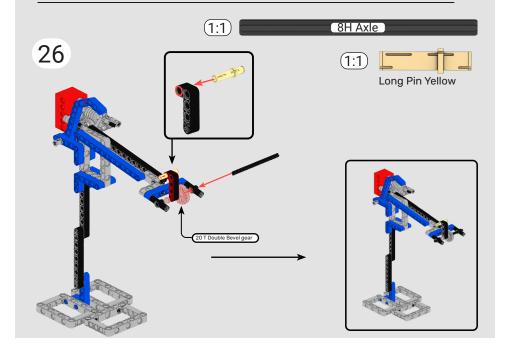


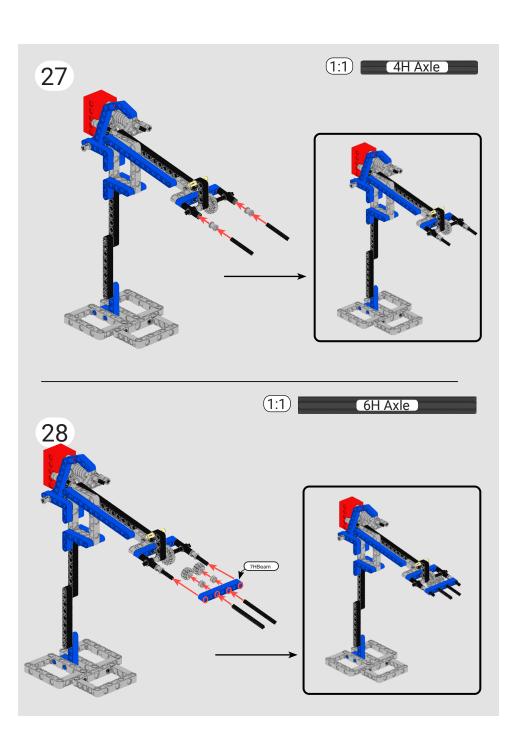


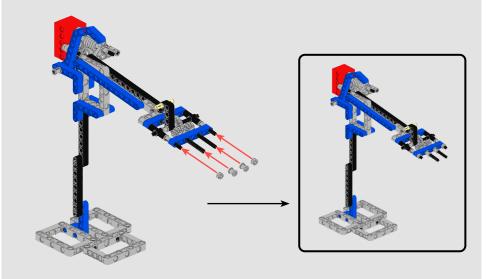


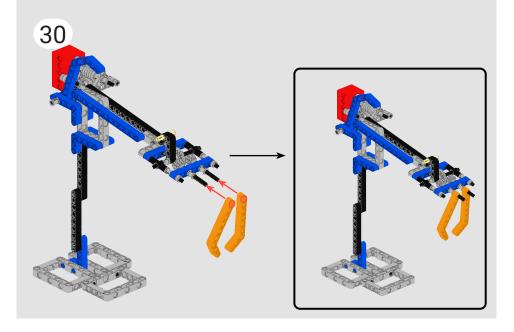


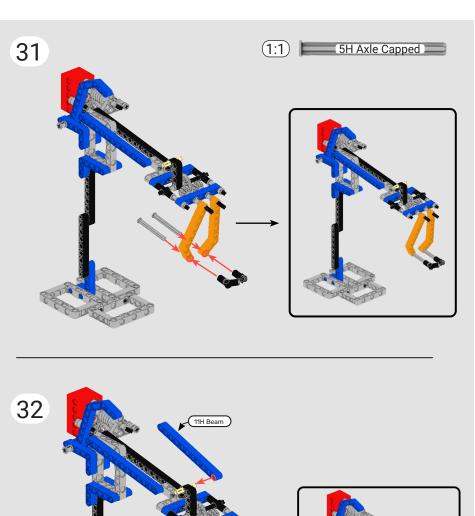


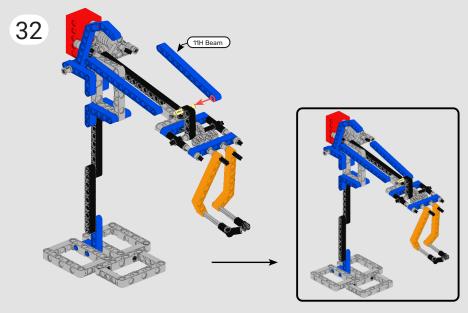


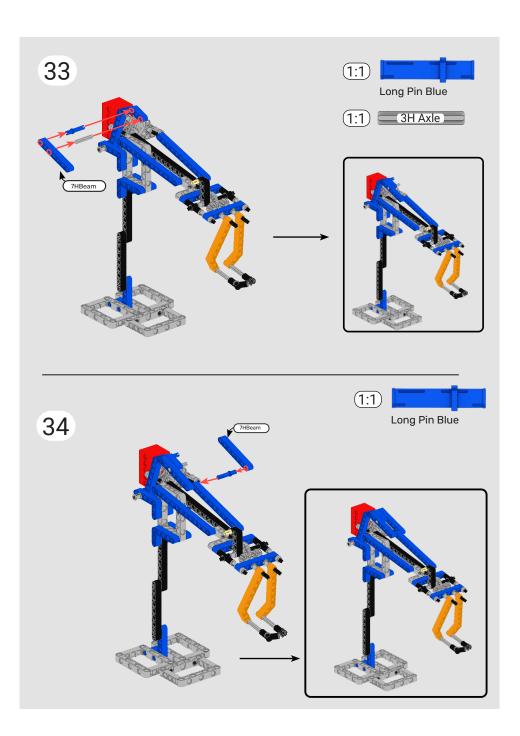


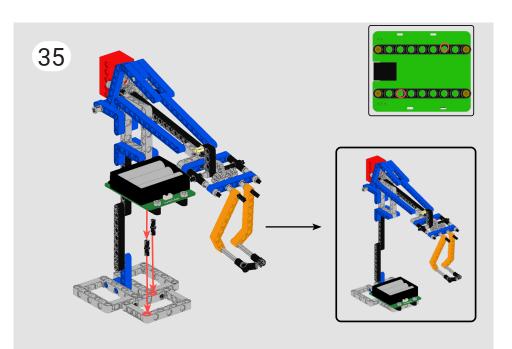


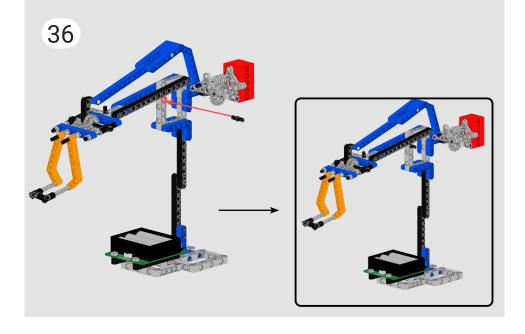












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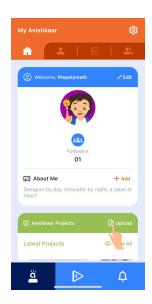
#### Share your Creation with the World and Win the 'Scratch the Surface' Level 3 Badge

Upload photos or videos of your project using the project section of the Avishkaar App to win the 'Scratch the Surface' Level 3 Badge.

See all your collected badges in the achievement section of your profile on www.avishkaar.cc.

Explore all other badges to be collected and win them all!





### Facing an Issue?

Our techincal support is available to assiste 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 +91-8506931515