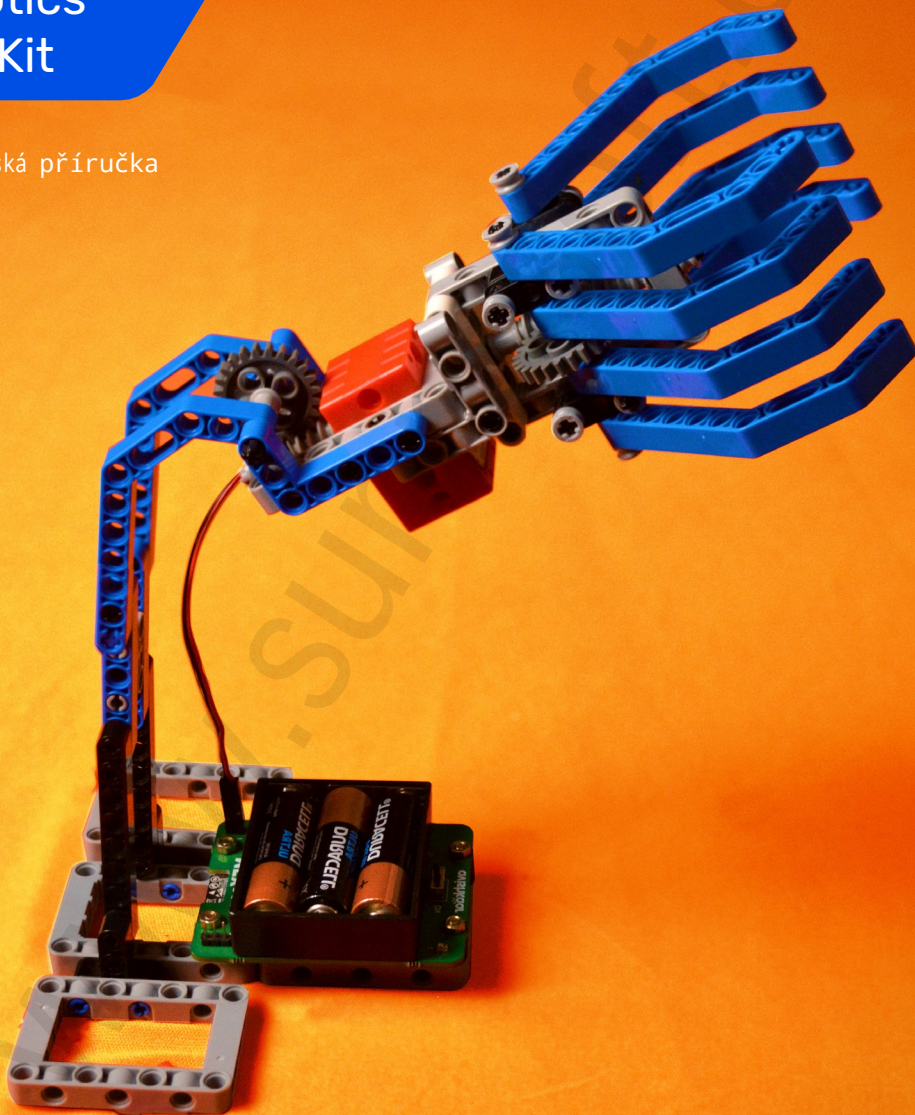


MEX

Robotics Arm Kit

Uživatelská příručka



Inovujte



Složení přísahy inovátora

Složte přísahu inovátora uvedenou na straně 6 a pochopte, co znamená být inovátorem.



Naučte se používat manuál/video

Postupujte podle podrobných pokynů v příručce a naučte se se stavebnicí stavět zajímavé roboty.



Sestavení, kódování a řízení

Sestavte inovativní projekty pomocí stavebnice a ovládejte roboty pomocí dálkového ovladače Avishkaar Remote a kódujte pomocí aplikace Avishkaar Maker Studio.



Sdílejte



Vyhrajte



Připojte se k Let's Avishkaar

Připojte se k naší komunitě na FB - spojte se s inovátory a získejte nejnovější informace o webinářích.



Nahrát projekty

Nahrávejte projekty na www.avishkaar.cc a sdílejte je s inovátory po celém světě.



Mezinárodní soutěže

Zúčastněte se týdenních, měsíčních a ročních soutěží a získejte slávu po celém světě.



Přísaha inovátora

Složte níže uvedený slib inovátora a zavažte se k celoživotnímu úsilí o inovace a řešení problémů. Sdilejte fotografii na FB komunitě Let's Avishkaar.

Slavnostně přísahám, že když už jsem se vydal na cestu inovace, nevzdám se, dokud nebude moje inovace, můj projekt hotový. Budu zdokonalovat své dovednosti a nástroje a dobře je používat. Inovace a já budeme nerozluční.

Vždy budu sdílet své inovace s ostatními inovátory a učit se s nimi.

I (mapište své jméno)

*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.*

podpis

Vítejte na stránkách Avishkaar

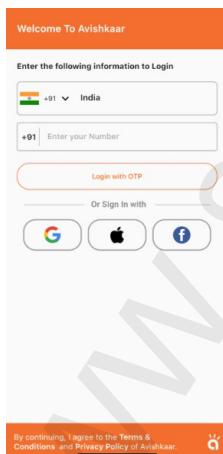
Stáhněte si aplikaci Avishkaar

Stáhněte si aplikaci Avishkaar naskenováním níže uvedených QR kódů:



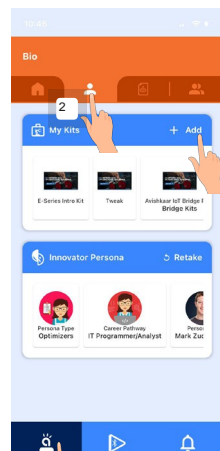
1 Vytvoření účtu

Otevřete aplikaci a podle pokynů na obrazovce si vytvořte účet.



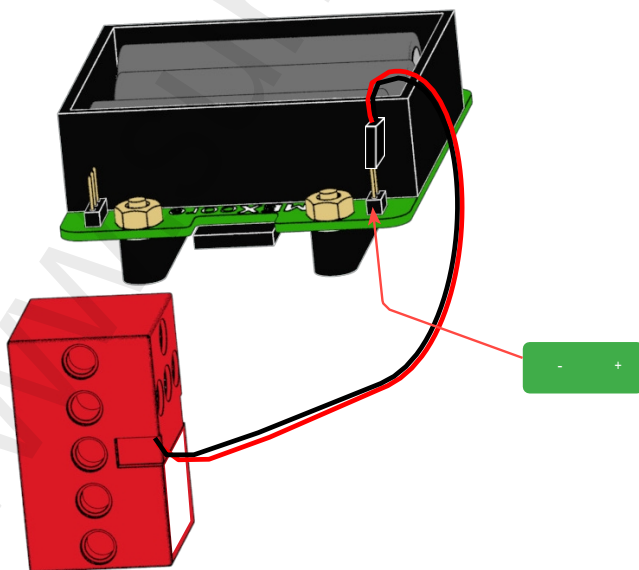
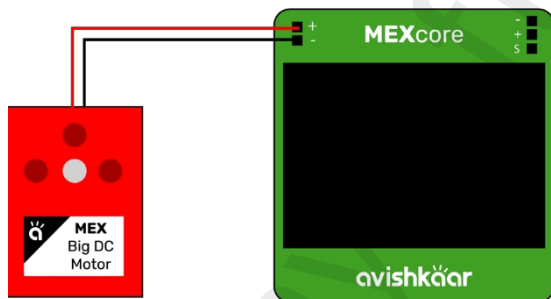
2 Zaregistrujte svou sadu

V aplikaci přejděte do sekce "Profil" a kliknutím na "+ Add more" v sekci "My kits" zaregistrujte svou soupravu. Tento krok je důležitý pro pozdější ovládání robota.



Product Registration
Sticker

Jak připojit motor k MEXcore

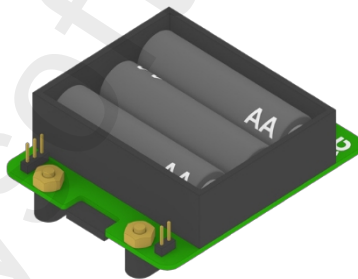


1 Vložte baterie do zařízení MEXcore a zapněte jej. Všimněte si, že LED dioda MEXcore bliká zelenou barvou.

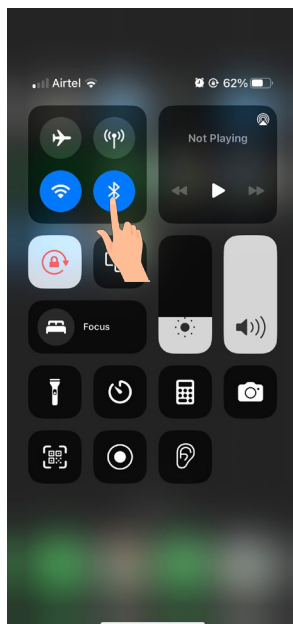
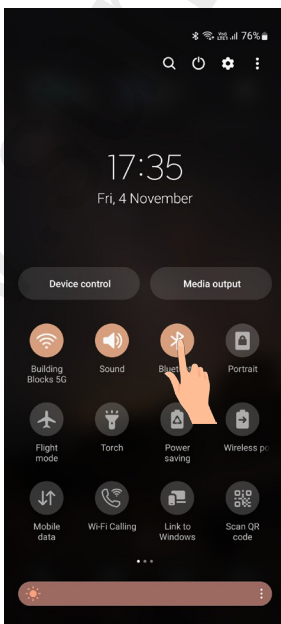
Poznámka - Používejte pouze alkalické články AA. (Jiné typy článků mohou MEXcore poškodit.)

- 1 Vložte baterie do zařízení MEXcore a zapněte jej. Všimněte si, že LED dioda MEXcore bliká zelenou barvou.

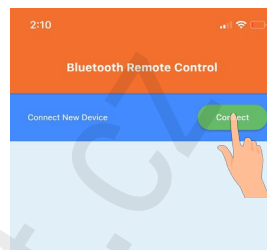
Poznámka - Používejte pouze alkalické články AA. (Jiné typy článků mohou MEXcore poškodit.)



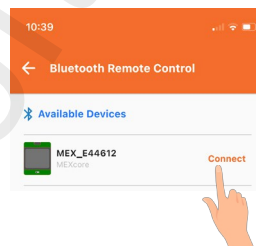
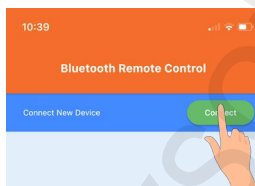
- 2 Zapněte Bluetooth v telefonu.



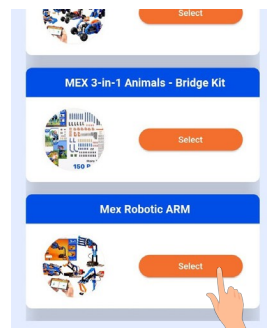
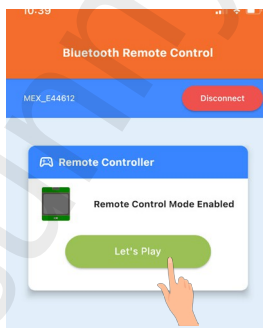
- 3 Otevřete aplikaci Avishkaar a klikněte na tlačítko "Play" v části "Home".



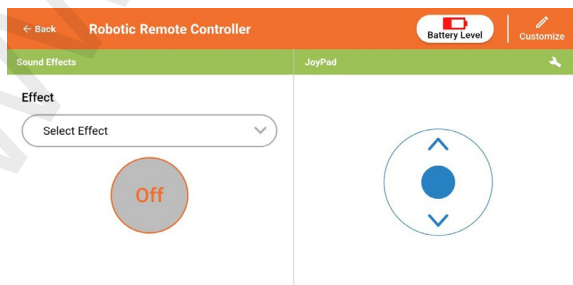
- 4 Klikněte na možnost "Connect". Aplikace by měla být schopna najít vaše MEXcore, pokud je zapnutý. Jakmile aplikace zjistí vaše MEXcore, klikněte na "Connect".



- 5 Klikněte na 'Let's Play' a v sadě vyberte 'MEX Robotics Arm kit' výběrové menu.

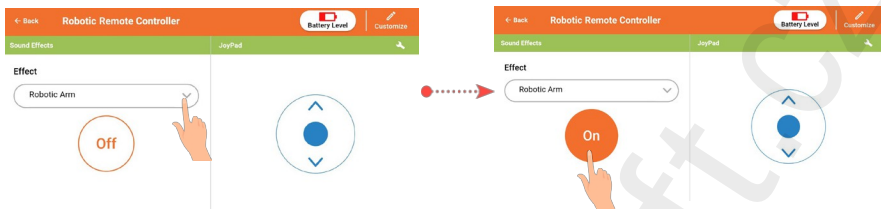


- 6 Otevře se obrazovka dálkového ovládání, která vám umožní ovládat motor.

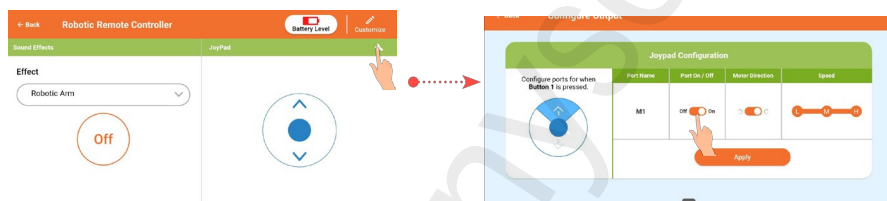


Konfigurace

Zvukové efekty

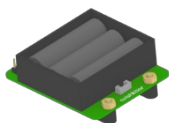


Joystick



Kontrola vybavení

Box 1 (elektronika)



Avishkaar
MEXCore
x1



Velký stejnosměrný
motor MEX
x 1

Box 2 (Stavební díly)

NOSNÍK



Nosník 15H
x 1



13H
Nosník
x1



11H Nosník
x1



3H
Nosník
x4



9H Nosník
x2

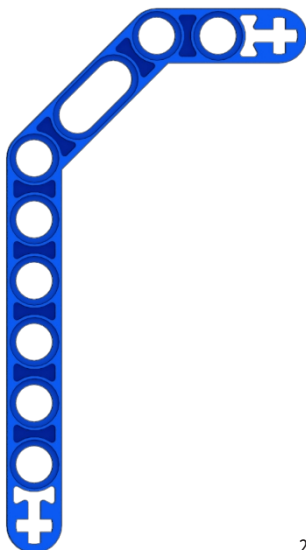


5H Nosník
x2

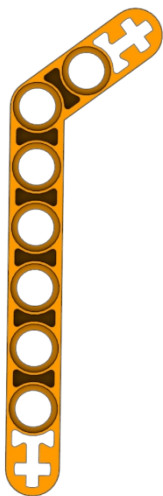


7H
Nosník
x4

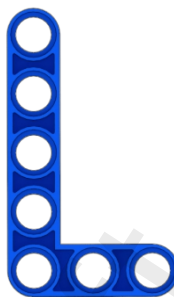
Poznámka: "H" znamená otvory. Např. nosník 15H znamená nosník s 15 otvory.



Nosník s
dvojitým ohybem
2Cx10H
x 10



2C x7H Jednoduchý ohyb
x2



7H L-trám
x5



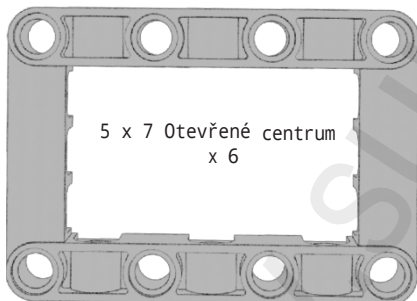
L-nosník 1Cx4H
x3



2Cx1H
Tenký nosník
x1



5H T-nosník
x2



5 x 7 Otevřené centrum
x 6

VÝPLNĚ

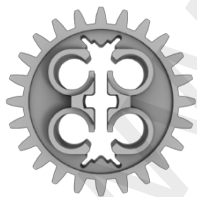


Výplň nápravy - velká
x 16



Výplň nápravy - malá
x16

PŘEVODY



24T Čelní
ozubené kolo
x3



16T
Čelní
ozubené
kolo
x2



12T dvojitě
kuželové
ozubené kolo
x2

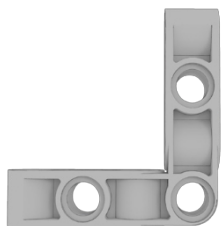


20T dvojitě
kuželové
ozubené kolo
x1

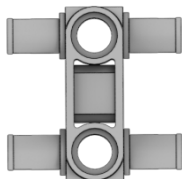


Šnekové soukolí -
velké x3

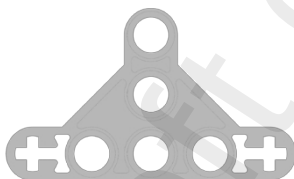
KONEKTORY



4 x 4 kolmý L konektor
x 2



Konektor
3Hx4 pin
x1



2C x 5H Trojúhelník
x2



1C x 1H
Kolmý konektor
x2



Trojkolíkový kolmý
konektor nápravy
x1



Úhlový konektor
nápravy - 180
x2



Úhlová přípojka
nápravy -135
x2



2C x1H
Kolmý
x4

PINY



Dlouhý kolík-modrý
x 13



Dlouhý kolík - žlutý
x1



Střední kolík - černý
x22



Střední špendlík
šedý
x 2



Střední čep
nápravy -
modrý
x2

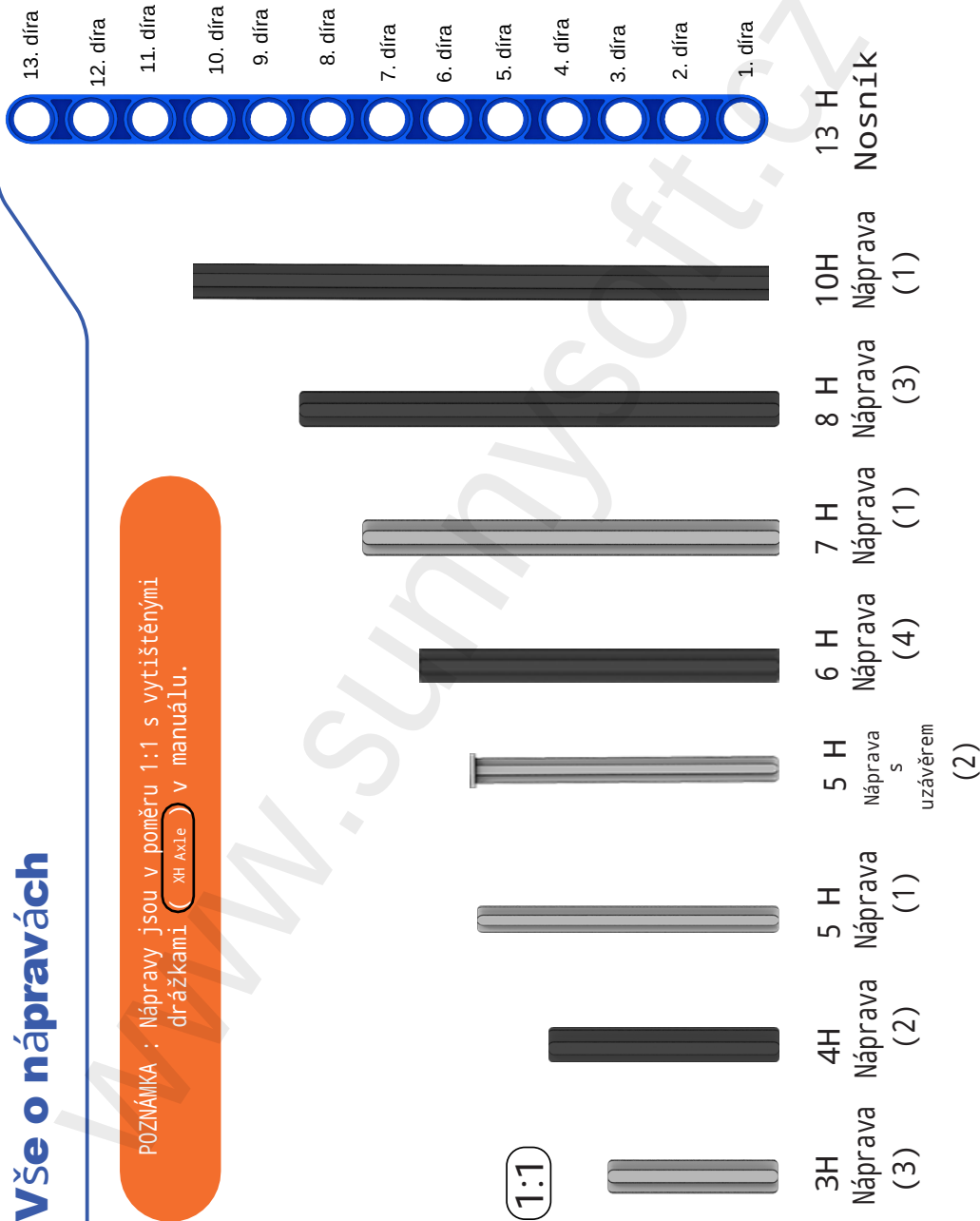


Krátký kolík - žlutý
x2

Poznámka: "Poznámka: "C"
znamená "Cross". Např. -
"1CX4H L-Beam" má jeden
kříž a čtyři otvory.

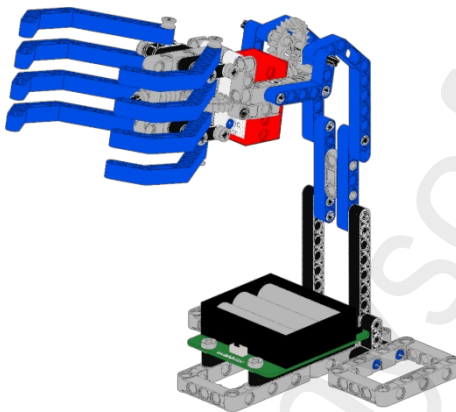
Vše o nápravách

POZNÁMKA : Nápravy jsou v poměru 1:1 s vytištěnými drážkami **XH Axle** v manuálu.



Projekt 1: MEX Grabber

Pojďme stavět!



Věci, které potřebujeme



9H nosník
x 2



nosník 7H
x 2



nosník 5H
x 2



7H nosník ve tvaru
písmene L
x 2



3H nosník
x 4



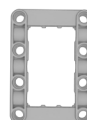
2Cx10H
Dvojitý ohyb
nosník
x 10



5H T-nosník
x 2



4 x 4 kolmo
Konektor L x 2



Otevřené
centrum
x 6



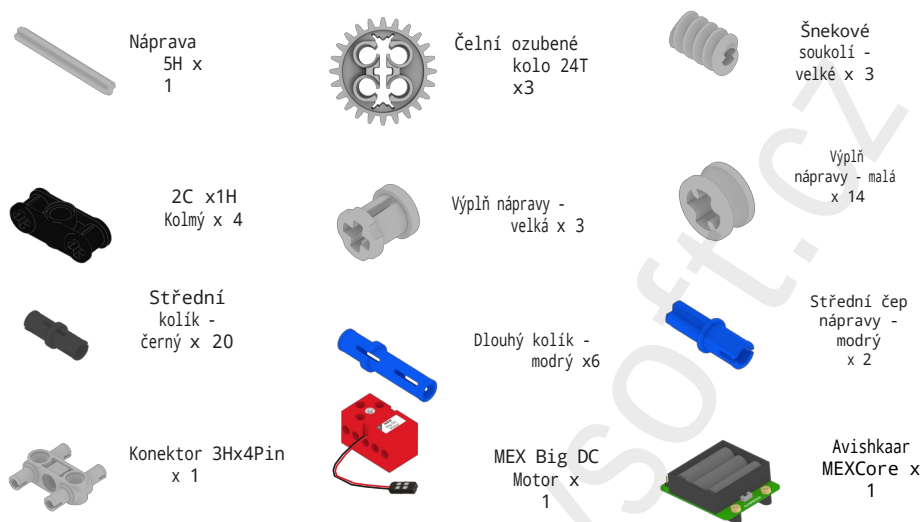
Náprava
10H x
1



Náprava
8H x
3

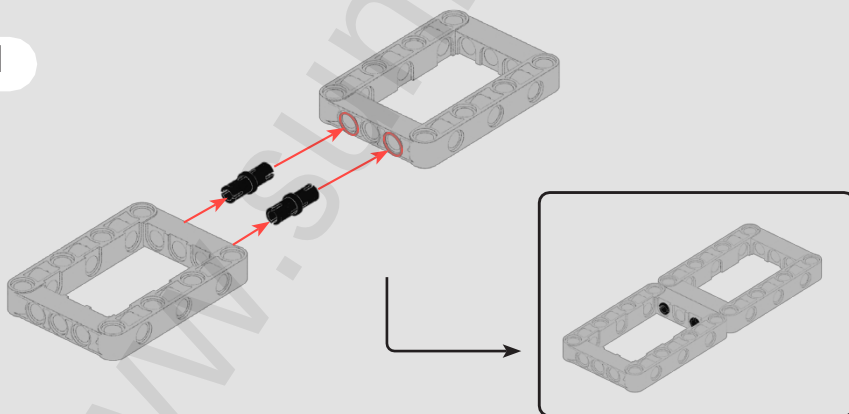


Náprava
6H x
4



Kroky

1

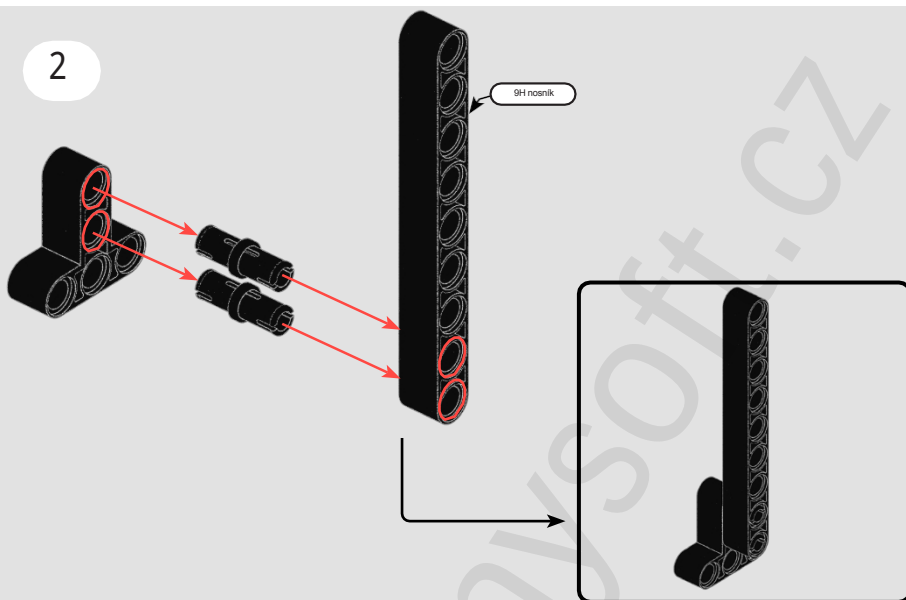


Tip na sestavení

Černé střední kolíky se vkládají trochu obtížněji!
Ale nebojte se. Zatlačte a ujistěte se, že je kloub v pořádku.
Vydrží trochu síly :)

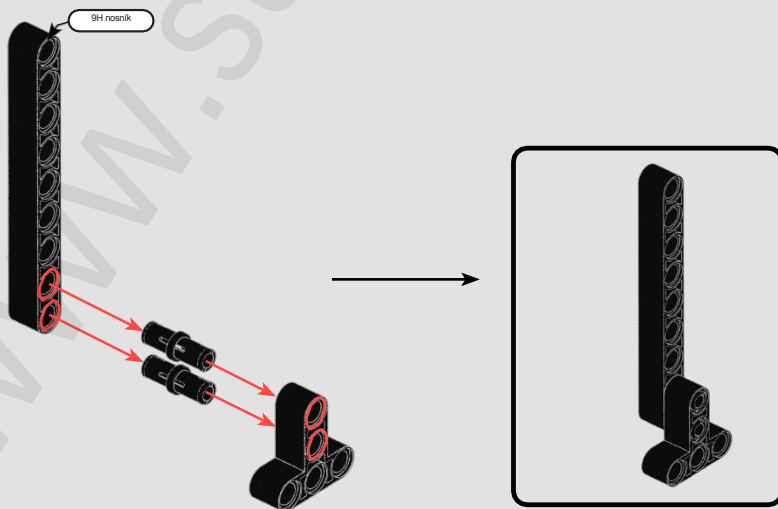


2



3

Vytvoříme další stranu.

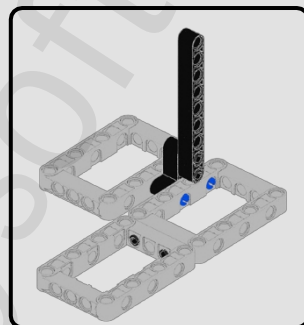
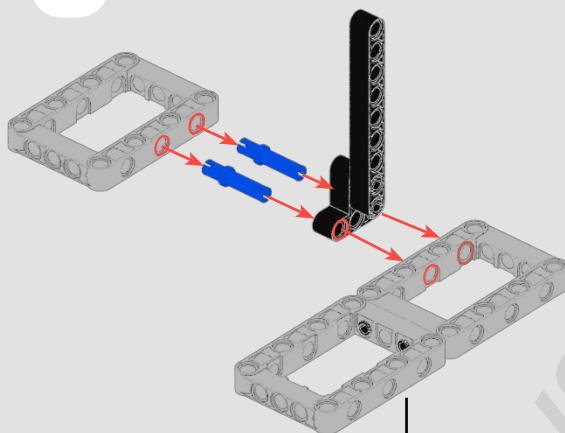


4

1:1

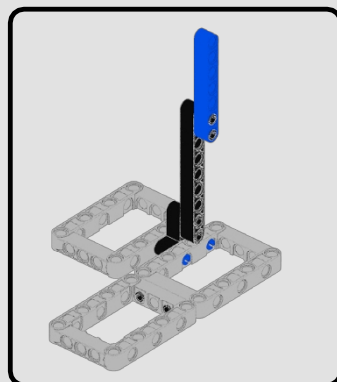
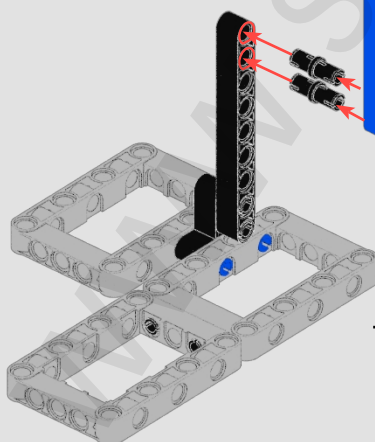


Dlouhý kolík modrý

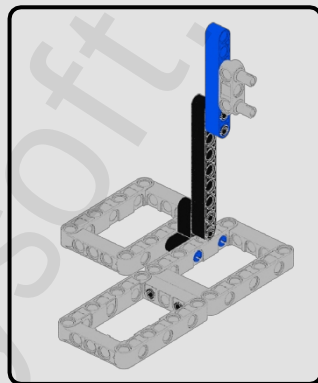
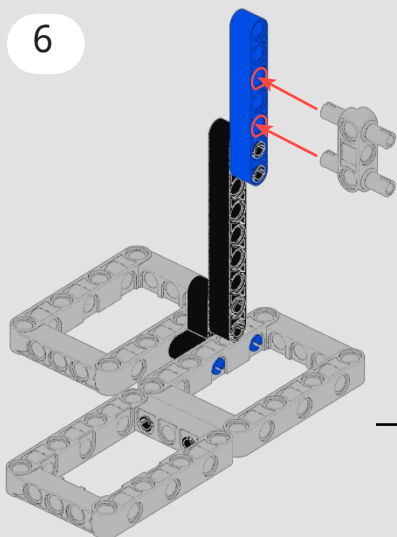


5

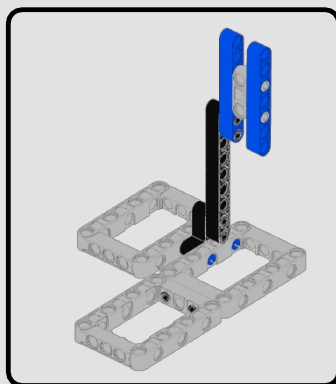
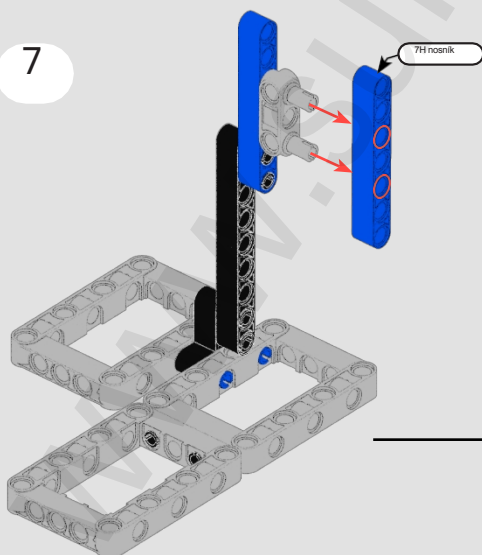
7H nosník



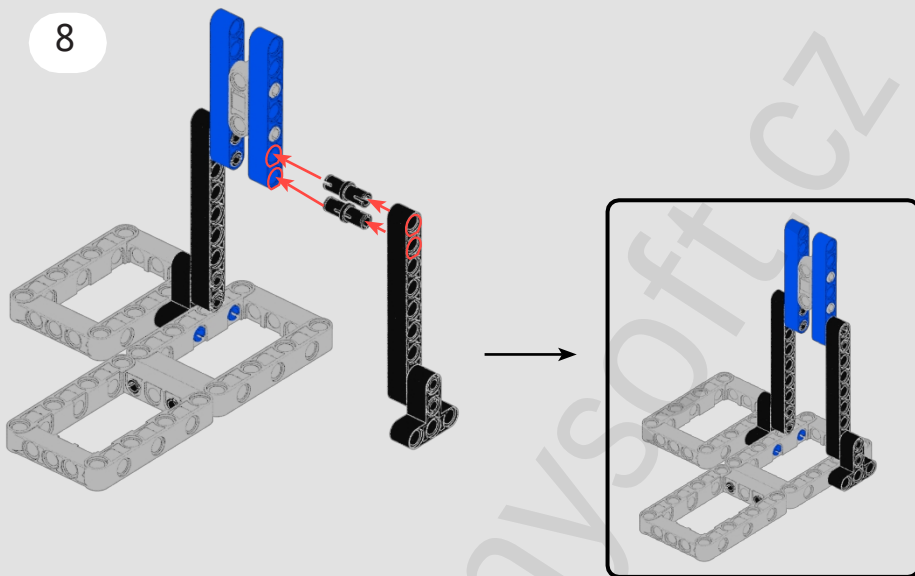
6



7



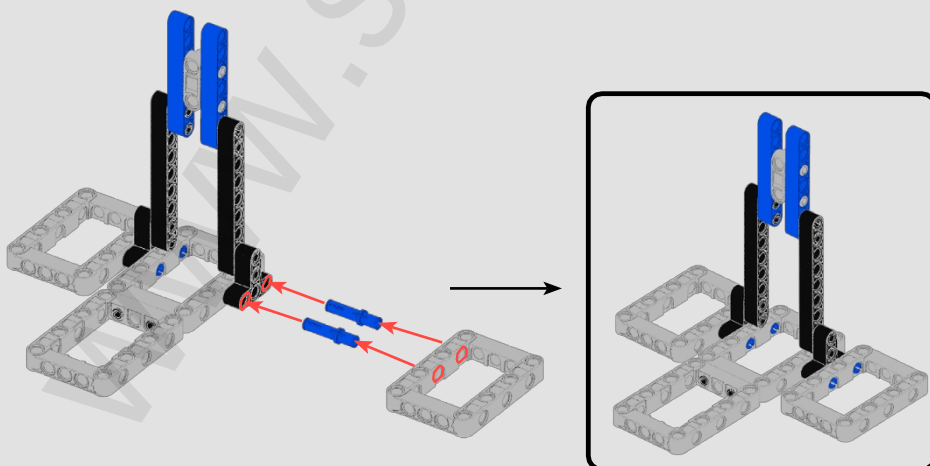
8



9

1:1

Dlouhý kolík modrý

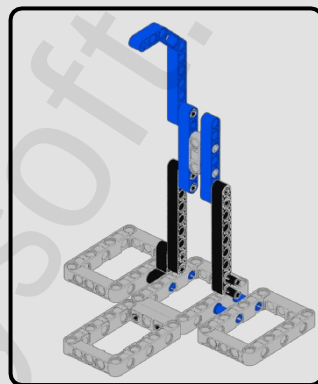
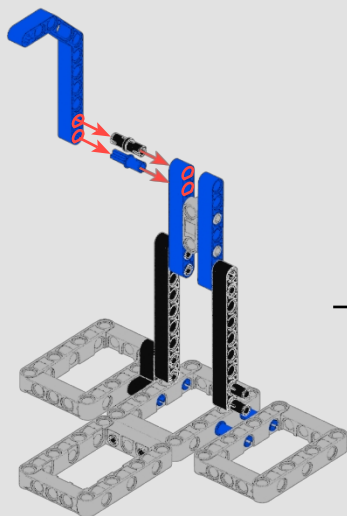


10

1:1



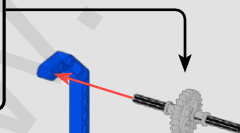
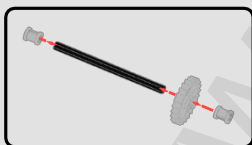
Střední čep nápravy modrý



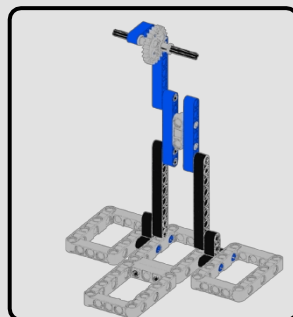
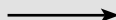
11

1:1

Náprava 8H



Čelní ozubené kolo 24T

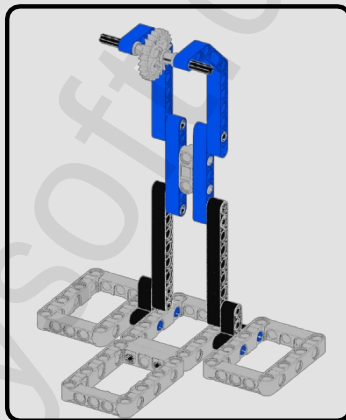
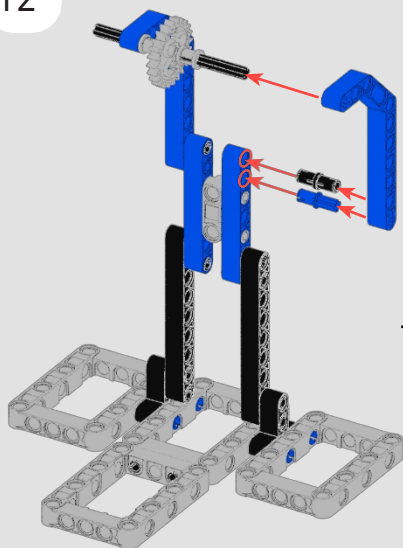


12

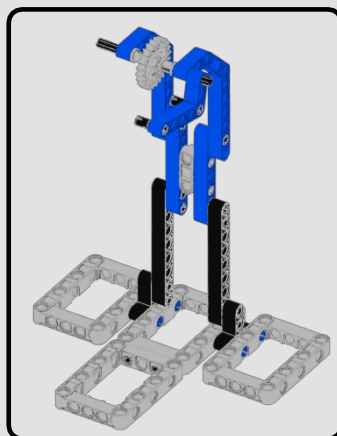
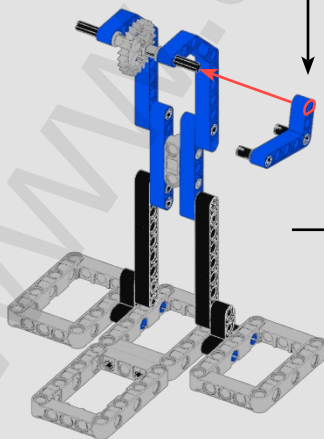
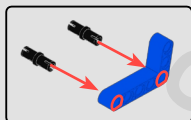
1:1



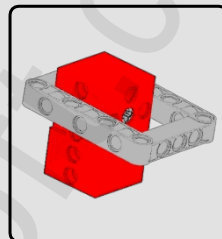
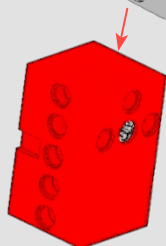
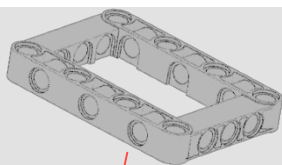
Střední čep naprávy modrý



13



14



Tip na sestavení



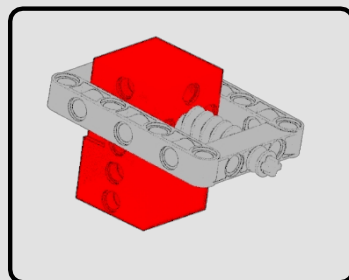
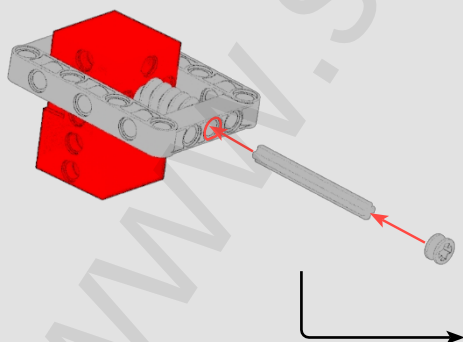
Černé střední kolíky lze zasunout pouze na jednu stranu motoru!
Černé kolíky lze zasunout pouze na stranu motoru s bílou nálepkou. Na druhé straně bez nálepky lze pouze malé žluté kolíky.



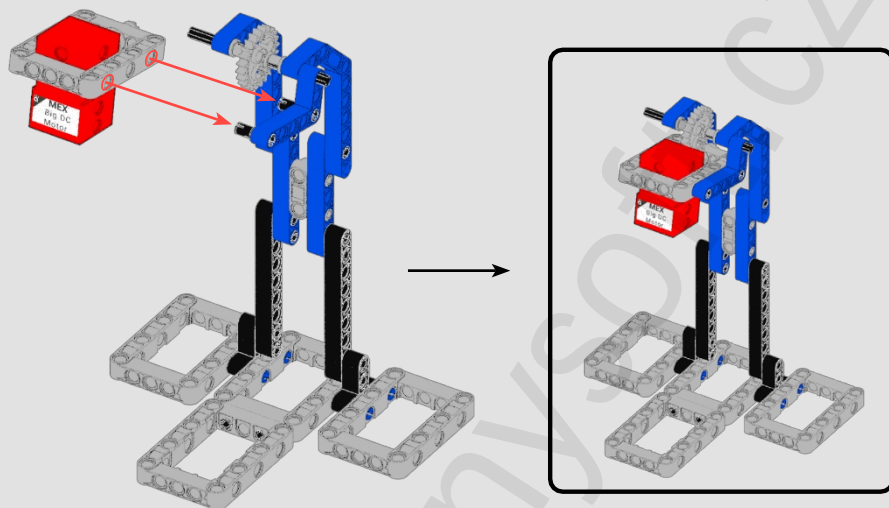
15

1:1

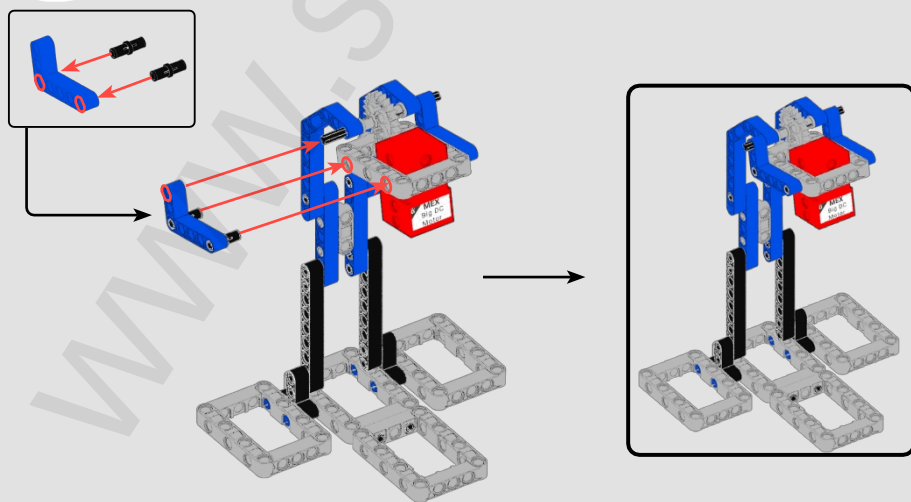
Náprava 5H



16



17



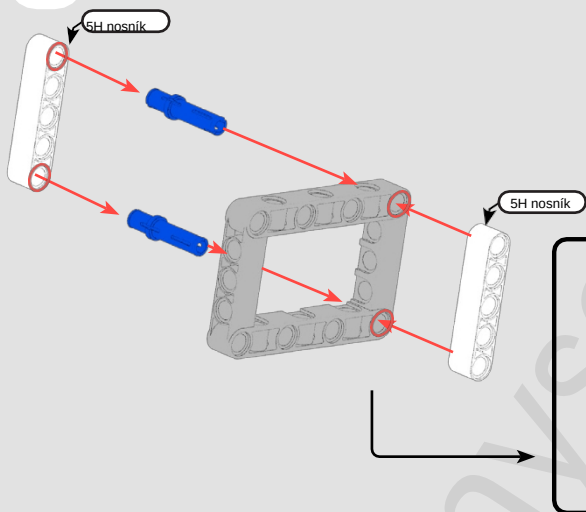
18

Pojďme vytvořit čelisti

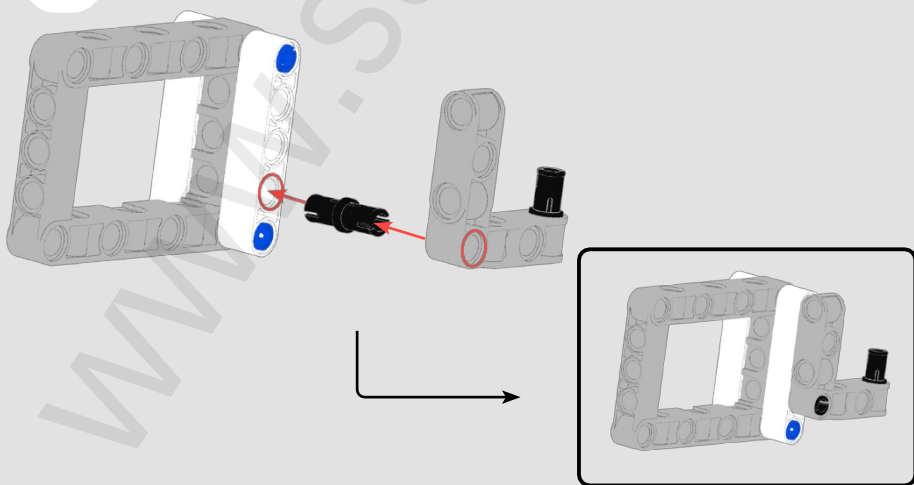
1:1



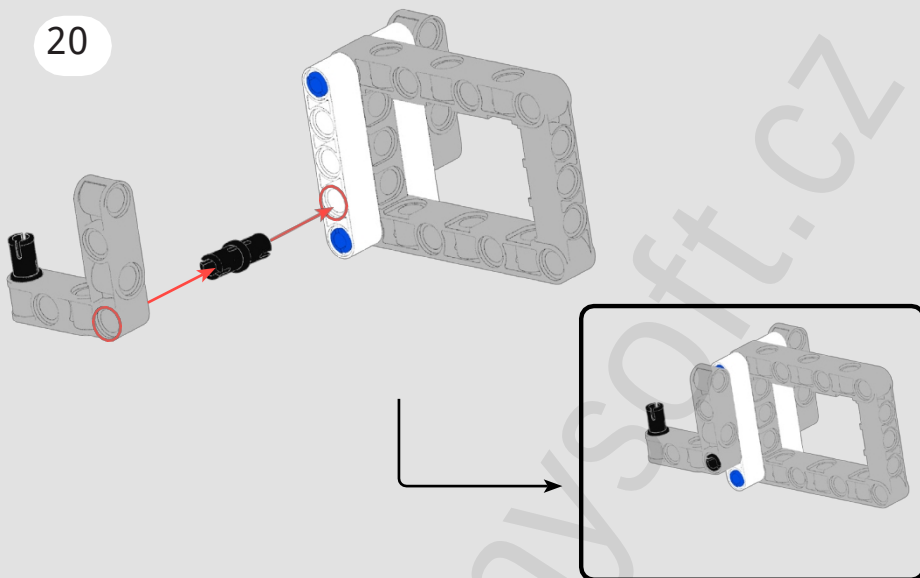
Dlouhý kolík modrý



19



20

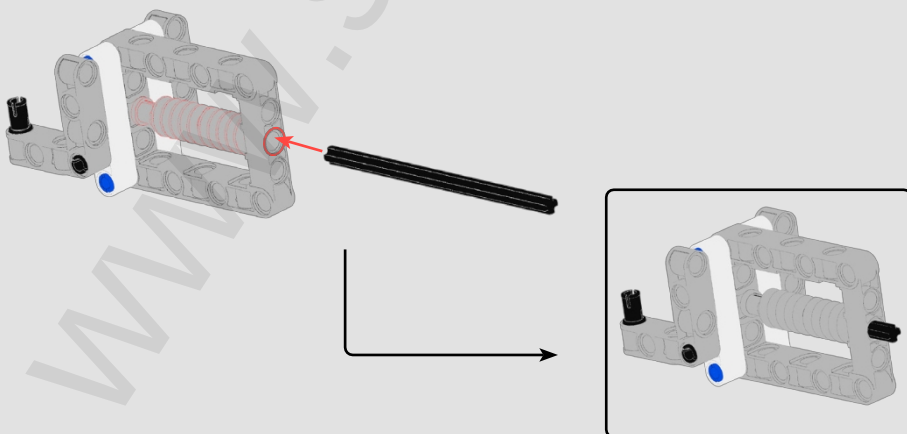


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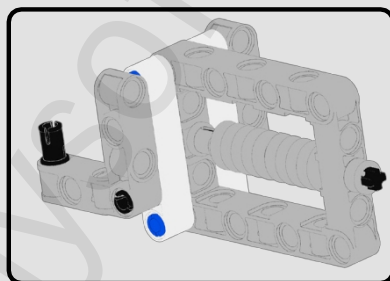
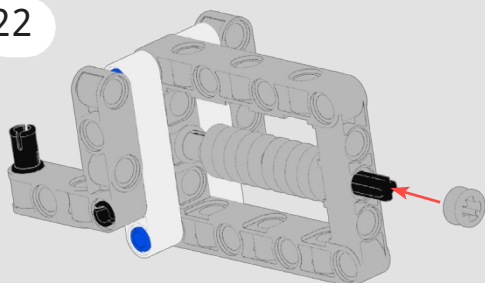
Náprava 10H

21

Poznámka: použijte dva šnekové převody-Big



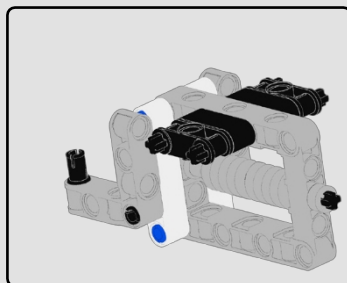
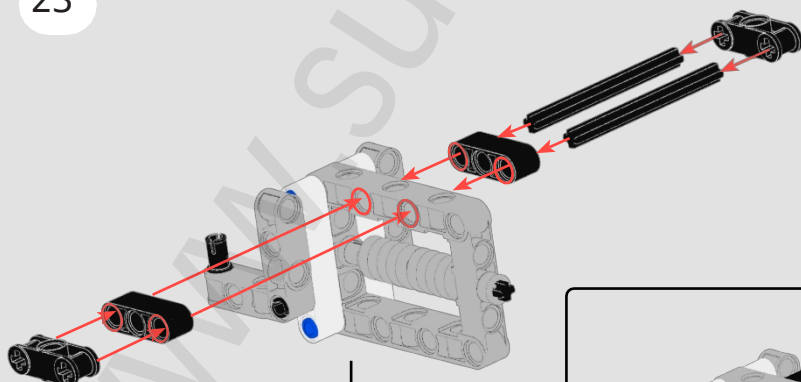
22



23

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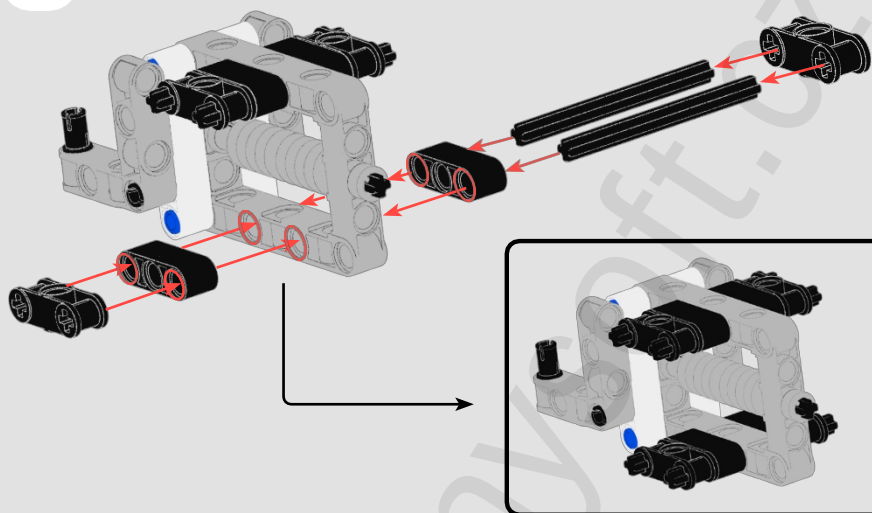
Náprava 6H



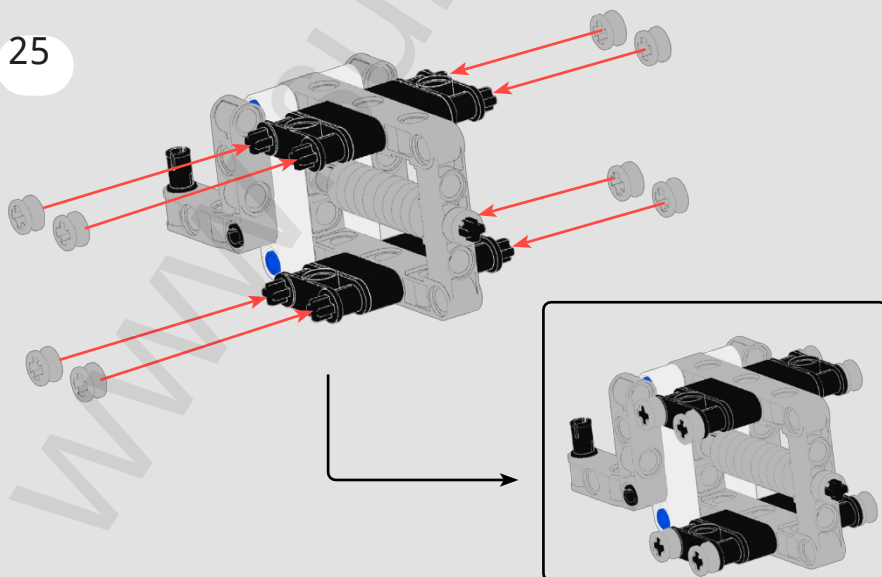
24

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Náprava 6H



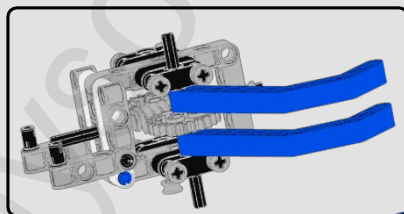
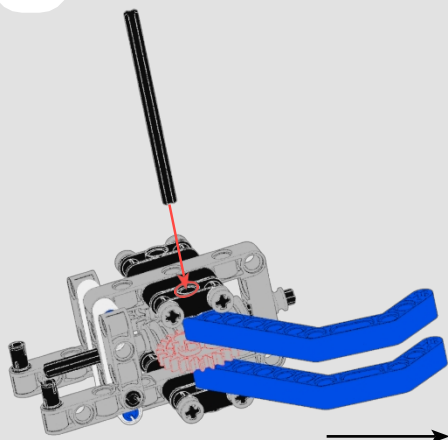
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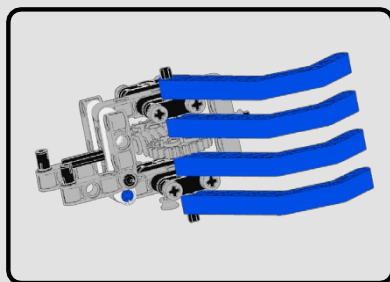
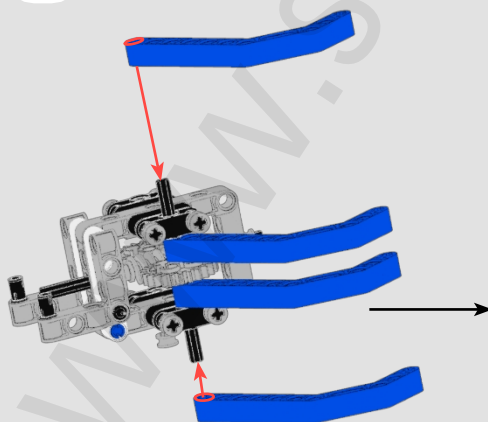
26

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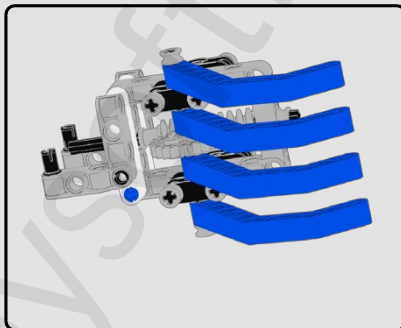
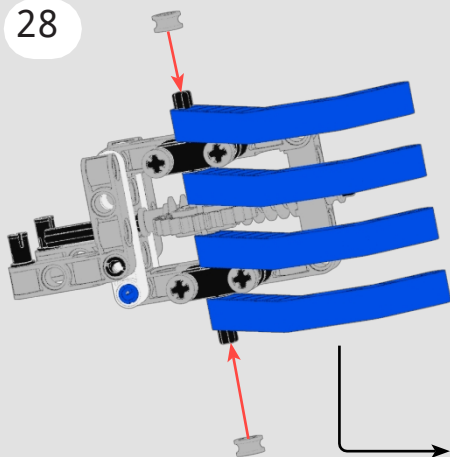
Naprava 8H



27



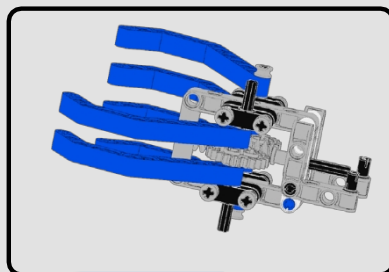
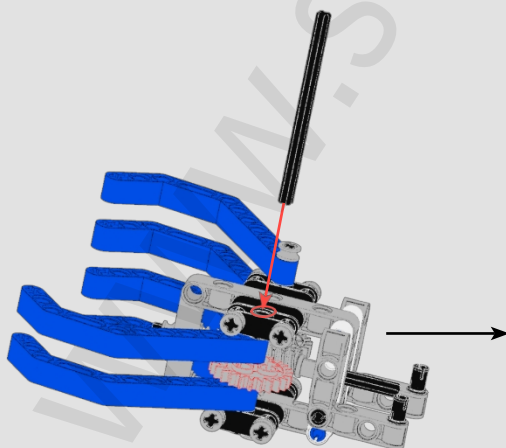
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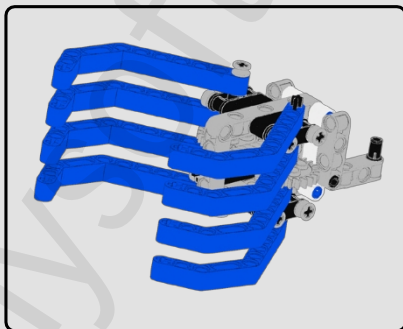
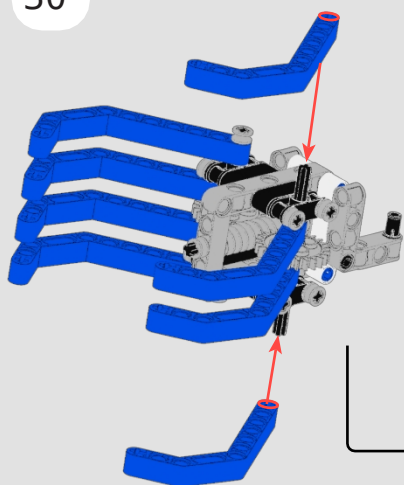
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1:1

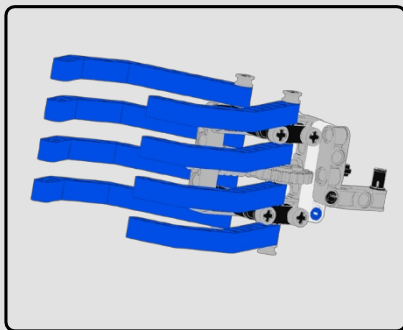
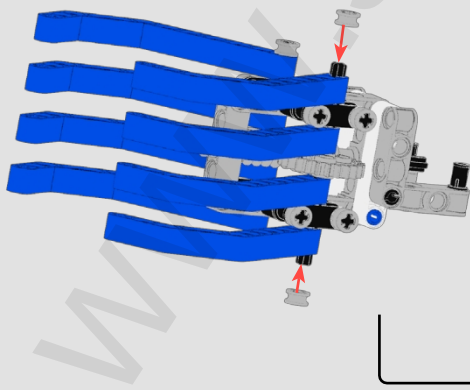
Náprava 8H



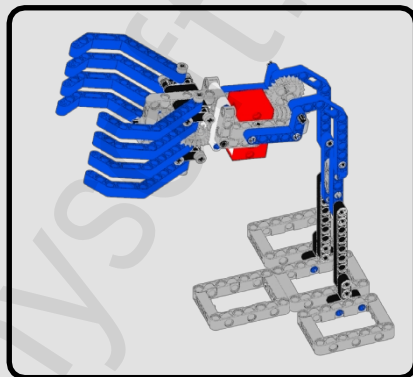
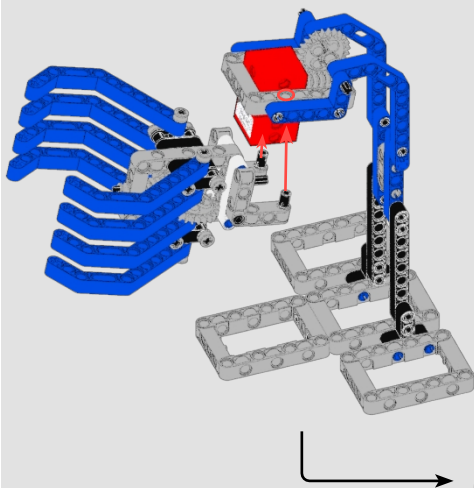
30



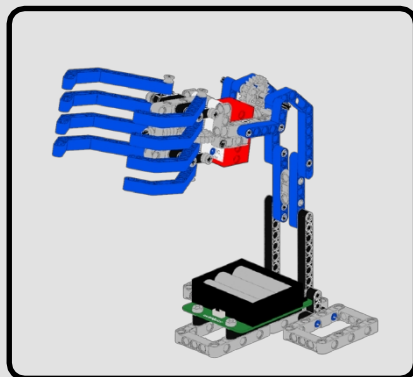
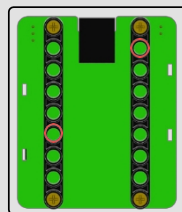
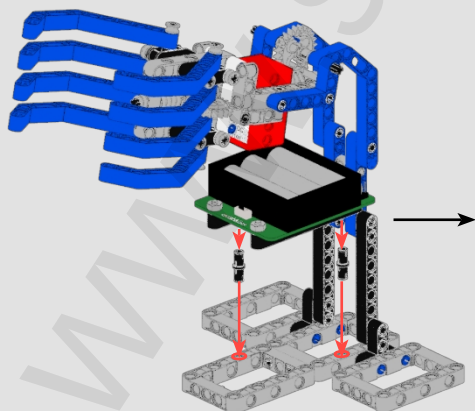
31



32



33



Gratulujeme k dokončení tohoto projektu!

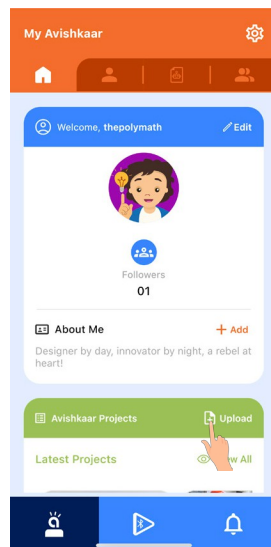
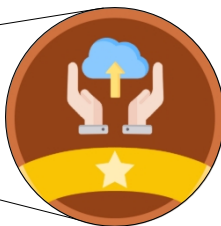
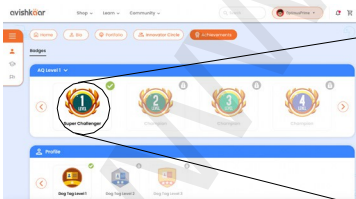
Těšíte se, až si s ním budete moci hrát pomocí mobilní aplikace avishkaar?



Podělte se o svůj výtvar s celým světem a vyhrajte odznak "Scratch the Surface" 1. úrovně

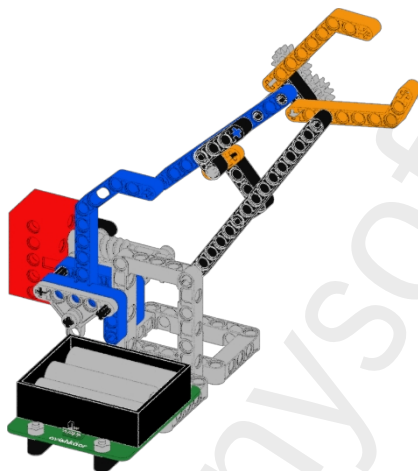
Nahrajte fotografie nebo videa svého projektu pomocí sekce projektů v aplikaci Avishkaar a získejte odznak 1. úrovně "Scratch the Surface".

Všechny své nasbírané odznaky si můžete prohlédnout v sekci úspěchů ve svém profilu na webu www.avishkaar.cc. Prozkoumejte všechny další odznaky, které můžete sbírat, a vyhrajte je všechny!



Projekt 2 : MEX Cyber Claw

Pojďme stavět!



Věci, které potřebujeme



Nosník
15H
x1



11H
Nosník
x1



3H
Nosník
x1



7H nosník
do L
x2



L-nosník 1Cx4H
x 3



2Cx10H
Dvojitý ohnutý
nosník x 1



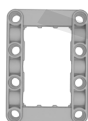
2C x 7 H
Jednoduchý
ohybový
nosník
x 2



5H T-nosník
x 1



2Cx1H
Tenký nosník
x 1



Otevřené
centrum
x 3



2C x 5H
Trojúhelník
x 2



Šnekové
soukolí -
velké x 1



Čelní ozubené
kolo16T
x2



Čelní ozubené
kolo24T
x1



Výplň nápravy -
velká
x 5



Výplň nápravy - malá
x9



1Cx1H
Kolmý konektor
x 2



Náprava 3H
x3



Náprava
7H
x1



Náprava
8H
x3



Střední
kolík -černý
x9



Střední
špendlík -
šedý x 1



Střední čep
nápravy -
modrý
x 2



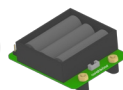
Střední kolík žlutý
x 1



Dlouhý kolík -
modrý x3



MEX Big DC
Motor
x1



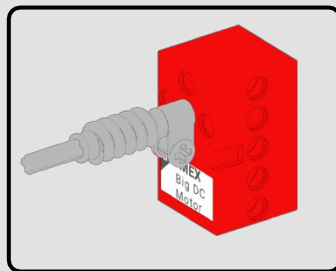
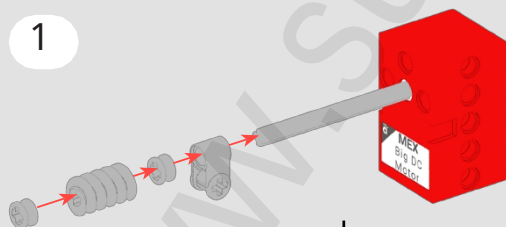
Avishkaar
MEXCore
x1

Kroky

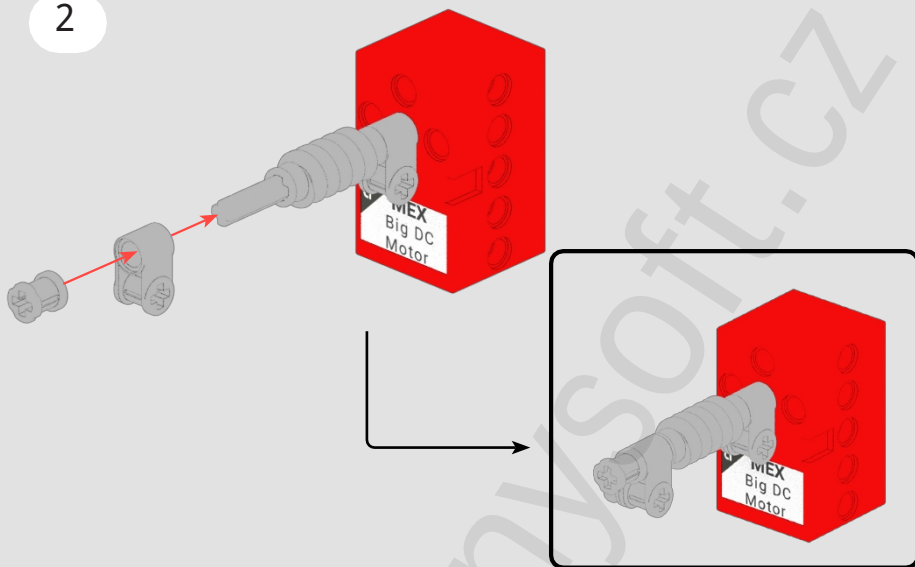
1:1

Náprava 7H

1



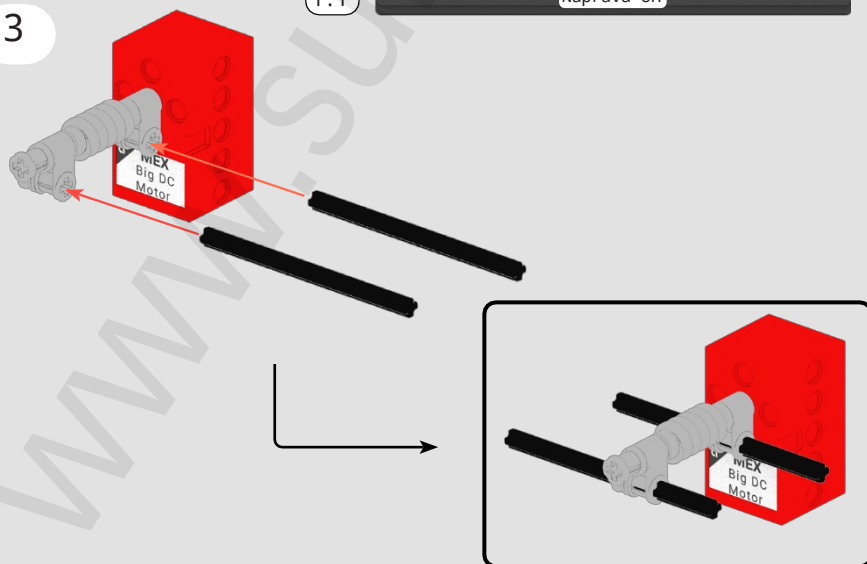
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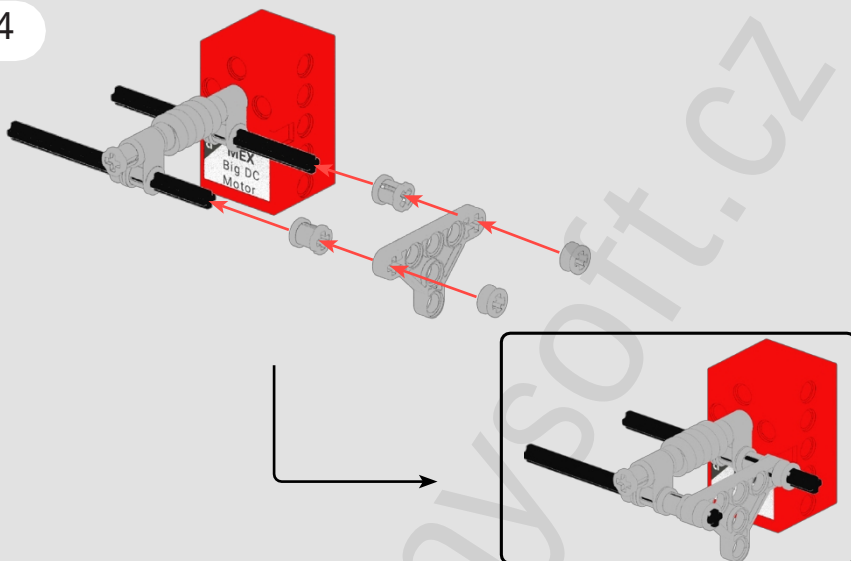
3

1:1

Náprava 8H



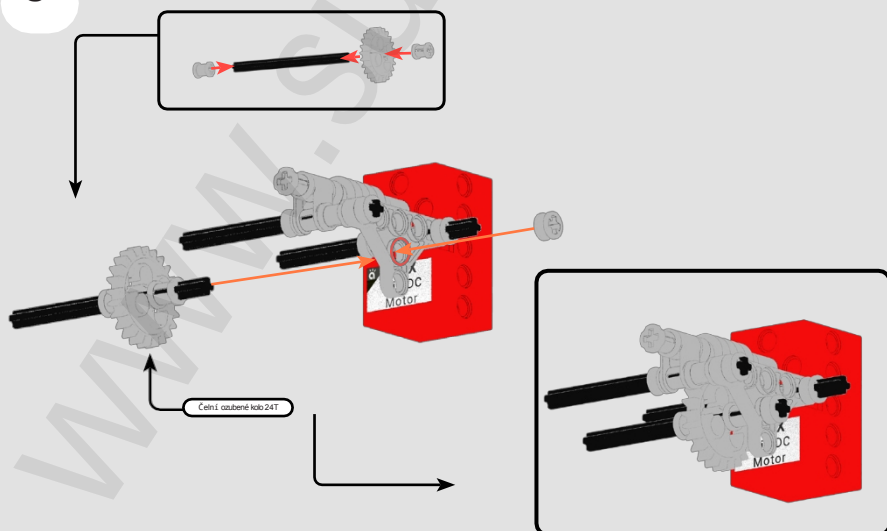
4



5

1:1

Náprava 8H

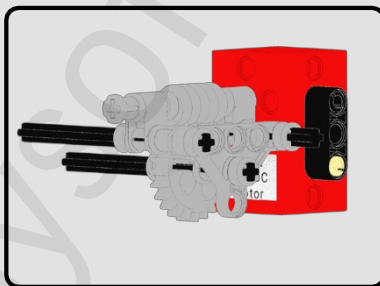
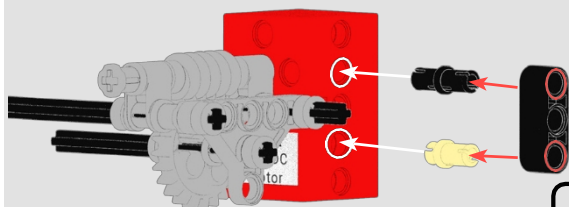


6

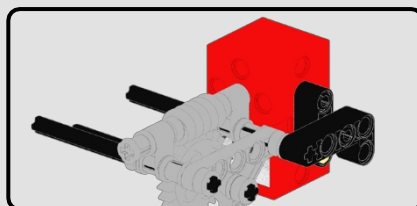
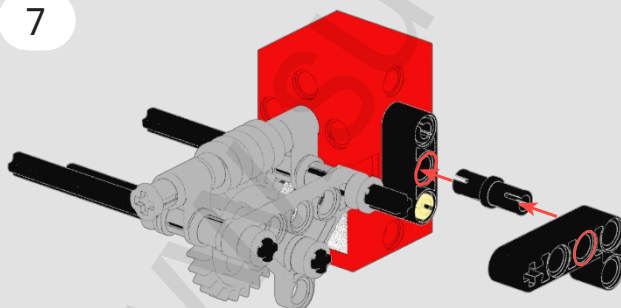
1:1



Krátký kolík žlutý



7



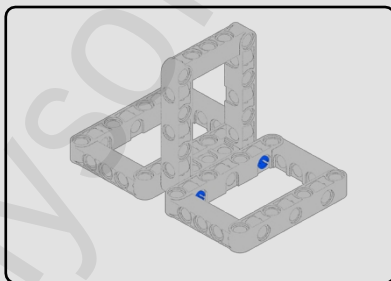
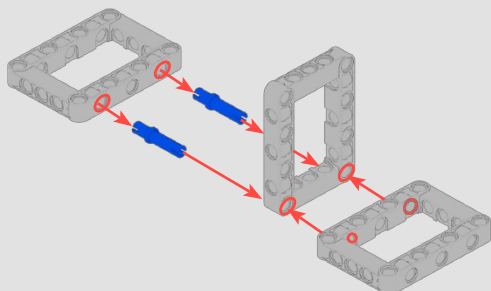
8

Vytvořme základní strukturu.

1:1

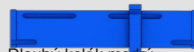


Dlouhý kolík modrý

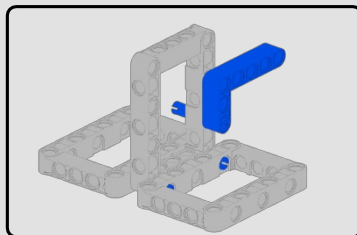
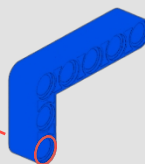
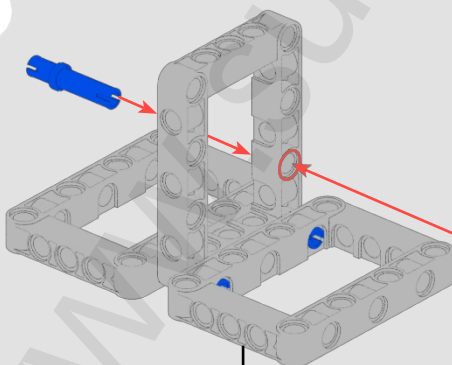


9

1:1

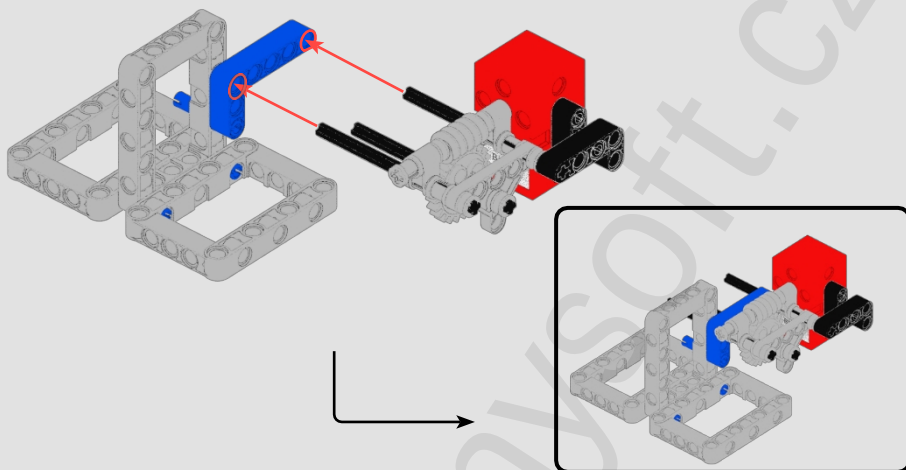


Dlouhý kolík modrý

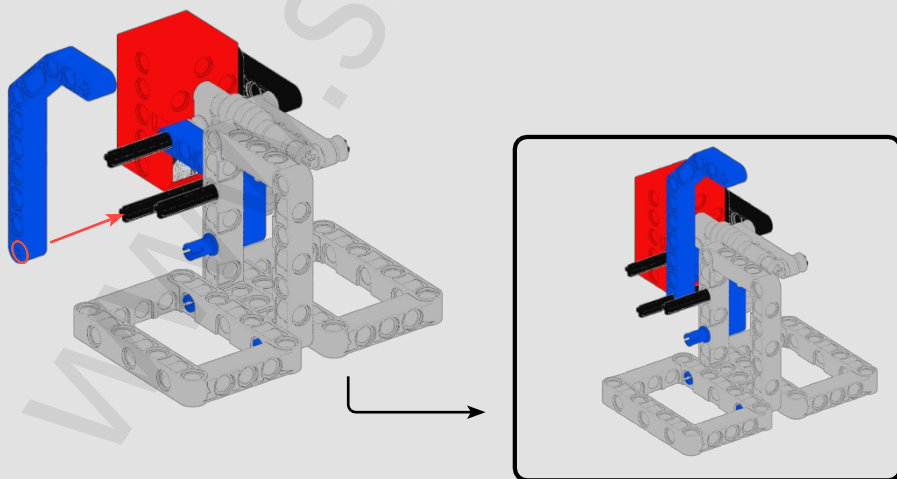


10

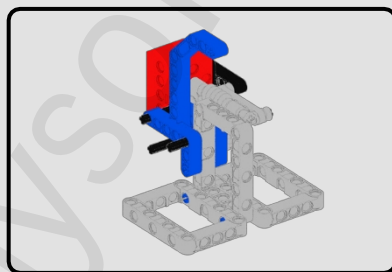
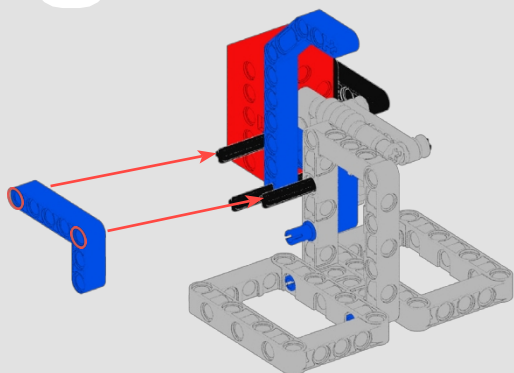
Sestavíme základní konstrukci a motorový mechanismus.



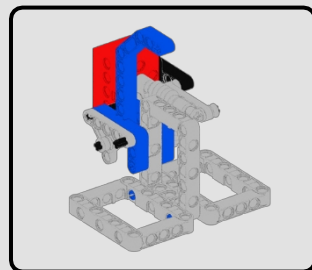
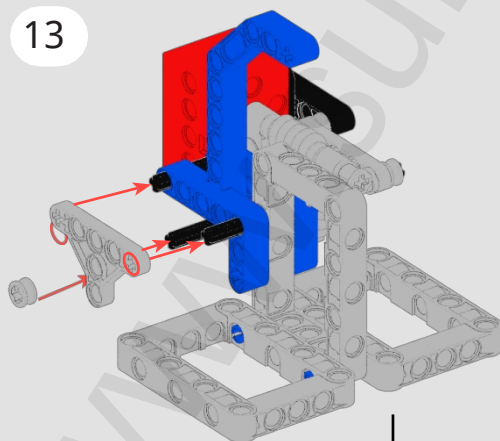
11



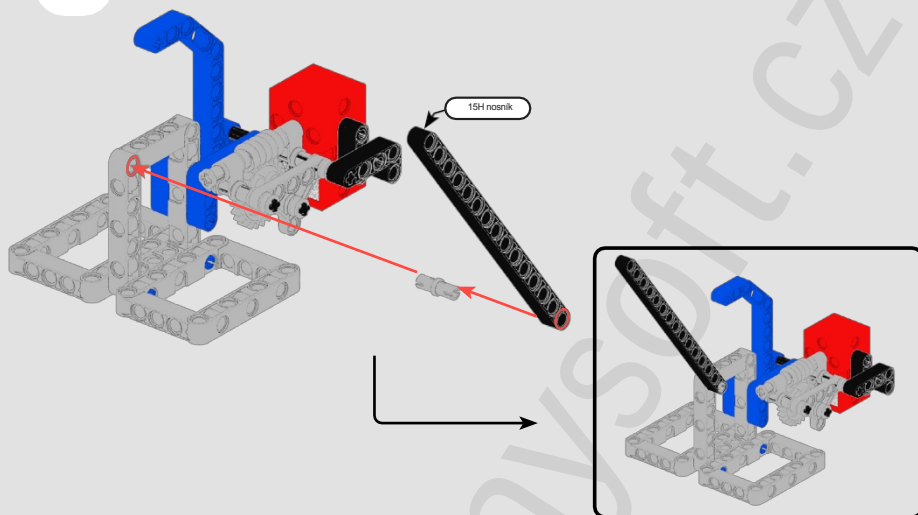
12



13

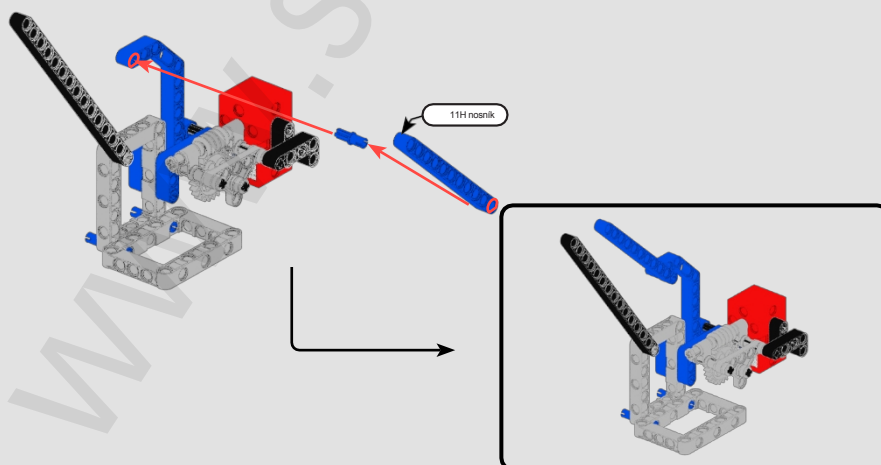


14

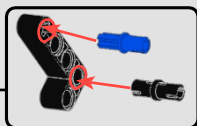


15

1:1
Střední čep nápravy modrý



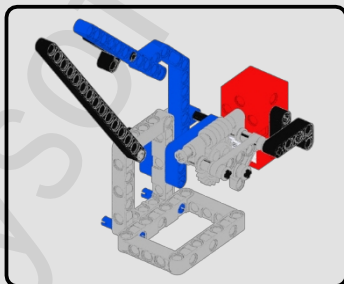
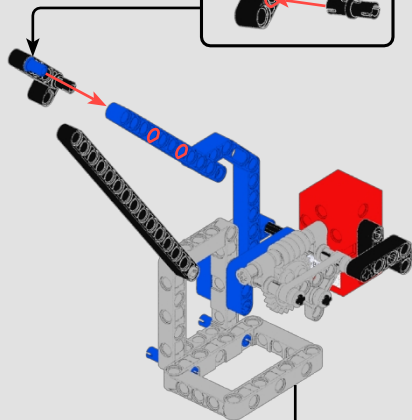
16



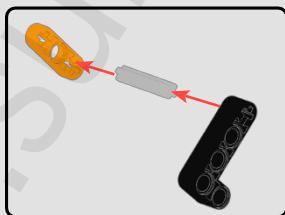
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Střední čep nápravy modrý

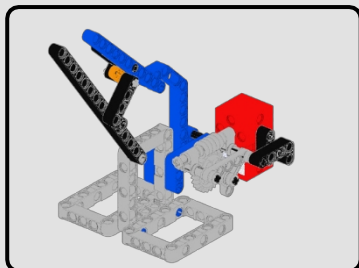
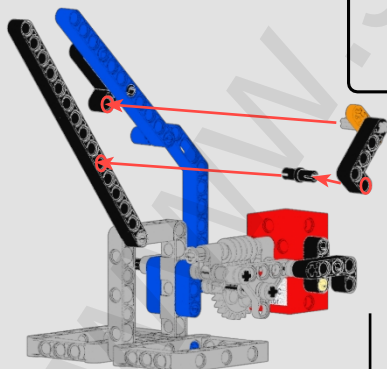


17

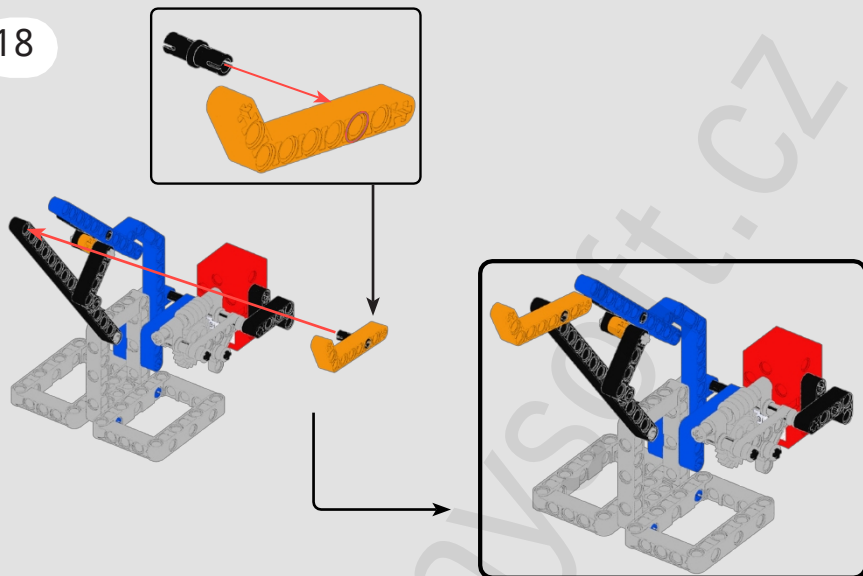


1:1

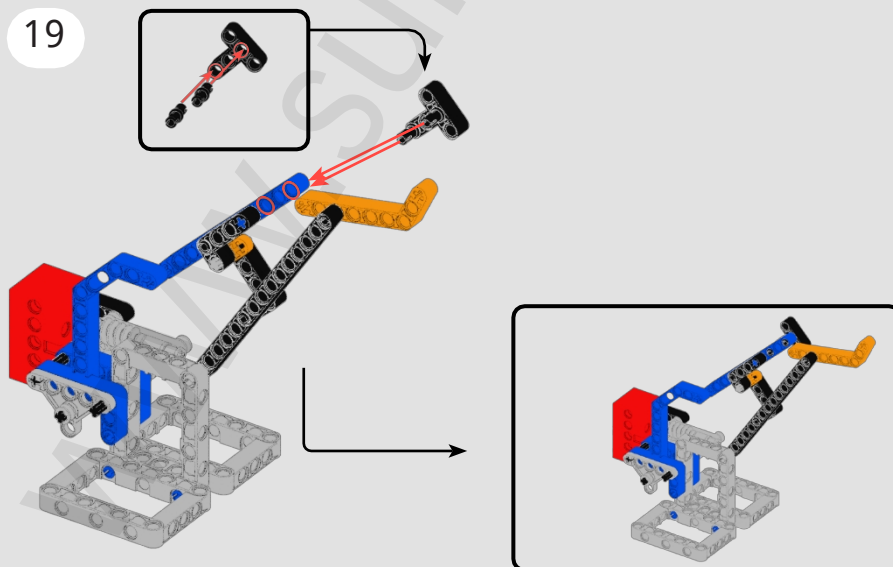
Náprava 3H



18



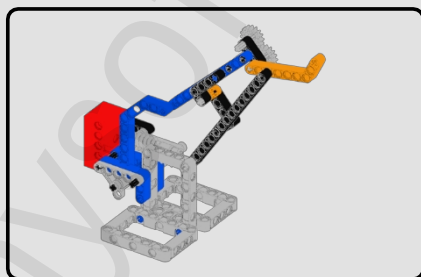
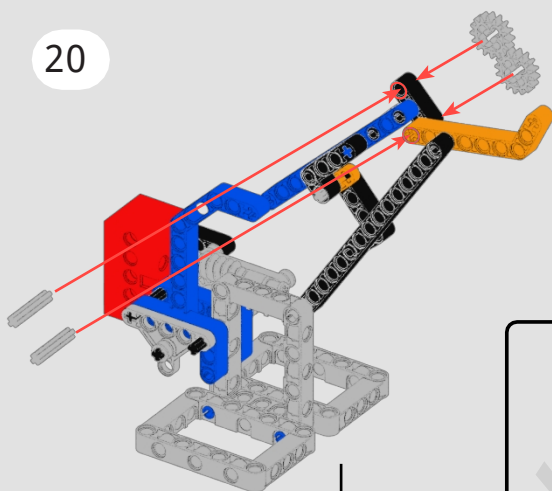
19



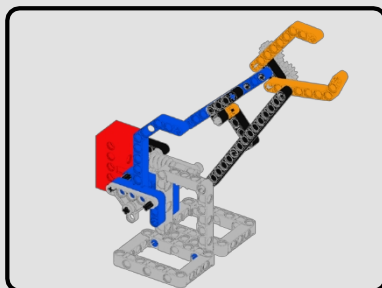
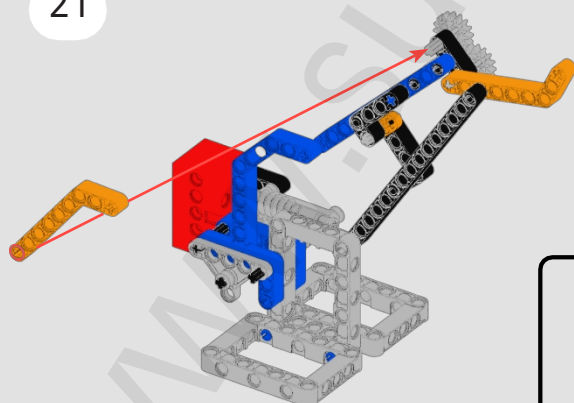
20

1:1

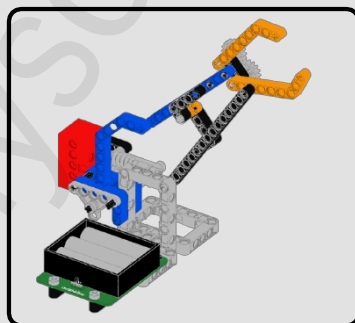
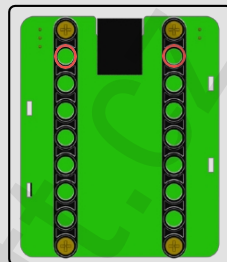
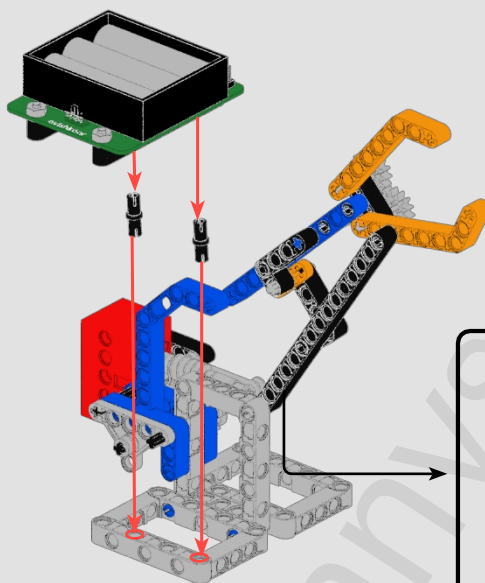
Náprava 3H



21



22



Gratulujeme k dokončení tohoto projektu!

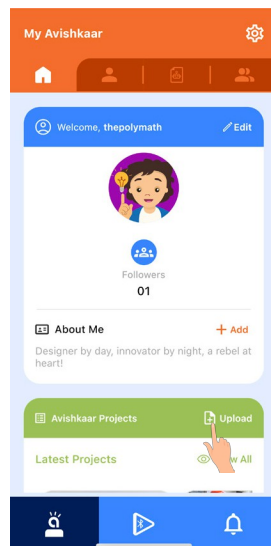
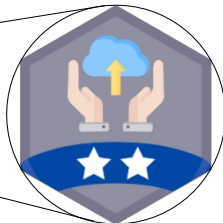
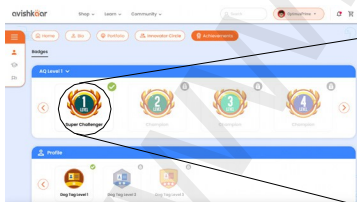
Těšíte se, až si s ním budete moci hrát pomocí mobilní aplikace avishkaar?



Podělte se o svůj výtvar se světem a vyhrajte odznak úrovně 2 "Scratch the Surface"

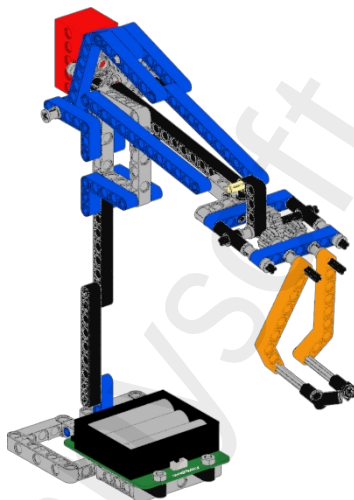
Nahrajte fotografie nebo videa svého projektu pomocí sekce projektů v aplikaci Avishkaar a postupte k získání odznaku "Scratch the Surface" 2. úrovně.

Všechny své nasbírané odznaky si můžete prohlédnout v sekci úspěchů ve svém profilu na webu www.avishkaar.cc.
Prozkoumejte všechny další odznaky, které můžete sbírat, a vyhrajte je všechny!



Projekt 3: MEX Robo Lift

Pojďme stavět!



Věci, které potřebujeme



Nosník
15H
x1



13H Nosník
x 1



11H Nosník
x 1



9H
Nosník
x 2



Nosník
7H
x 4



7H L-trám
x 5



L-nosník 1Cx4H
x 1



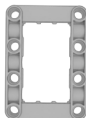
2C x 10 H
Dvojitý ohyb
nosníku
x 1



2C x 7 H
Jednoduchý
ohybový
nosník
x 2



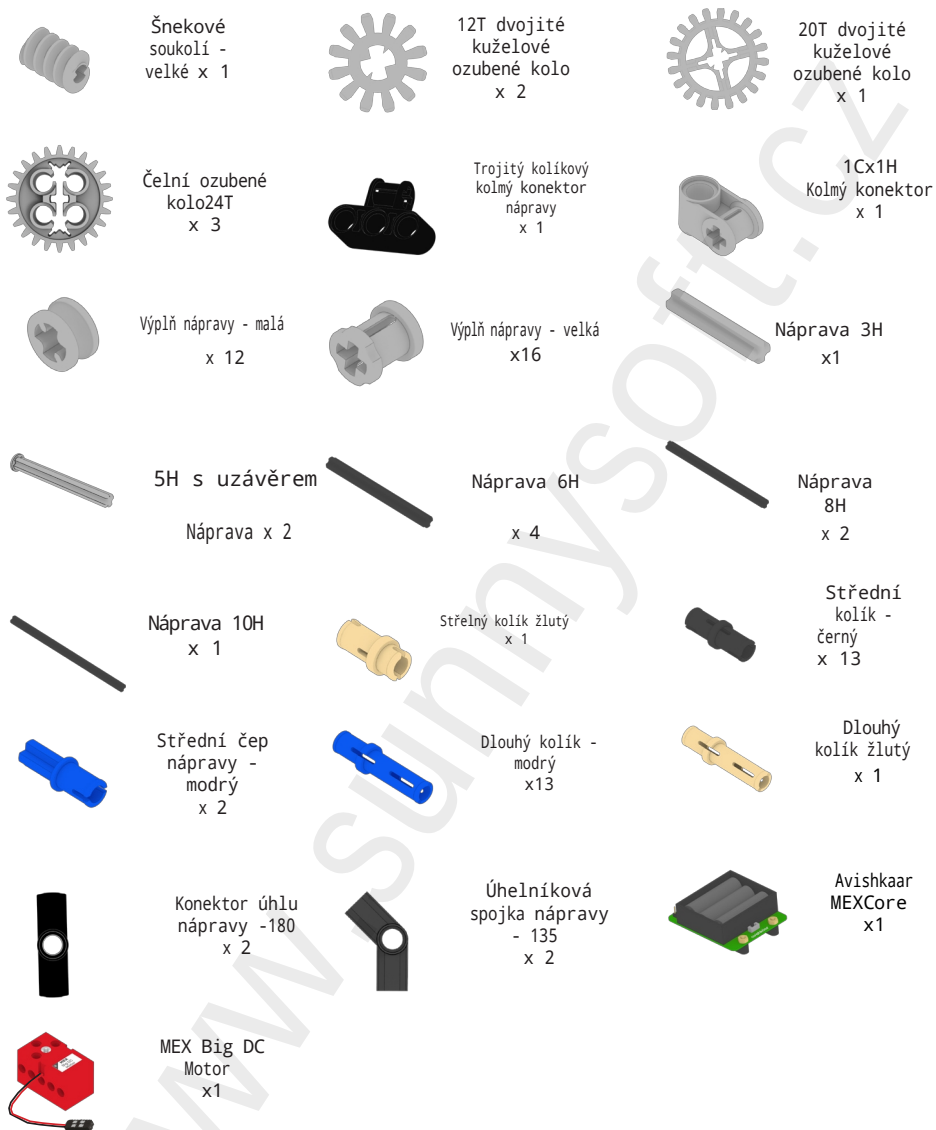
4 x 4 kolmý L konektor
x 1



Otevřené
centrum
x 4



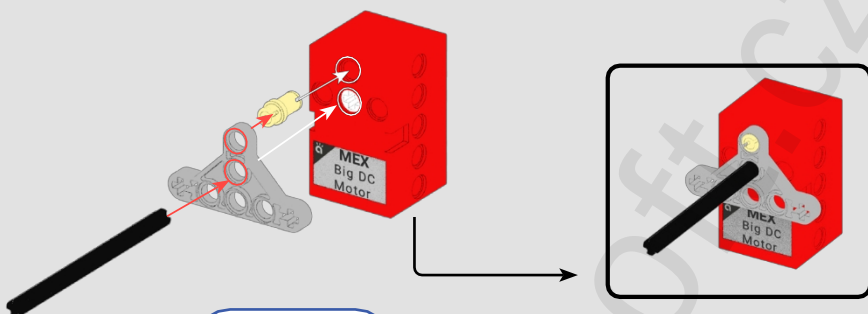
2C x 5H
Trojúhelník
x 2



1

1:1

Náprava 8H



Tip na sestavení



Krátké žluté špendlíky mohou být trochu choulaví!

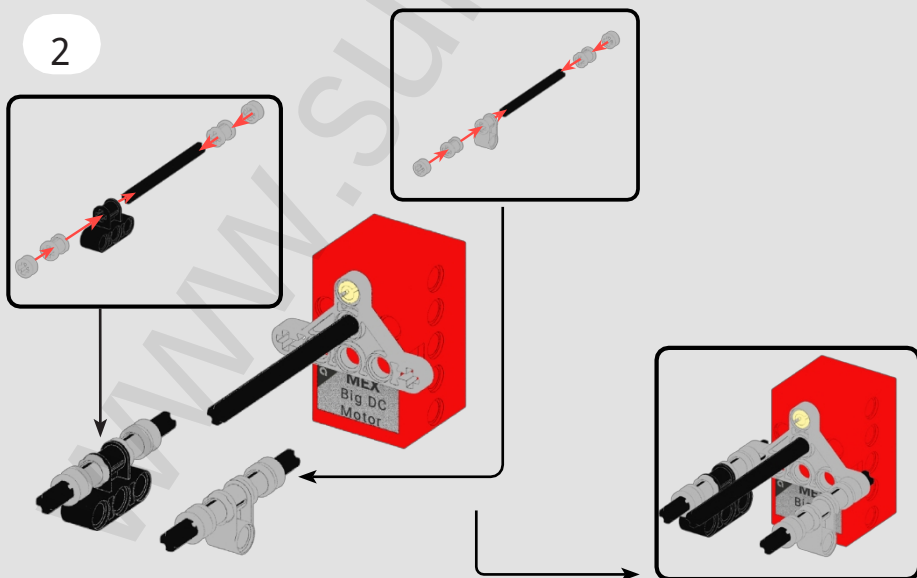
Při jejich používání buďte opatrní. Snadno se zlomí. A mohou se také špatně odstraňovat - vezměte si na pomoc rodiče nebo dospělou osobu, abyste je bezpečně odstranili.



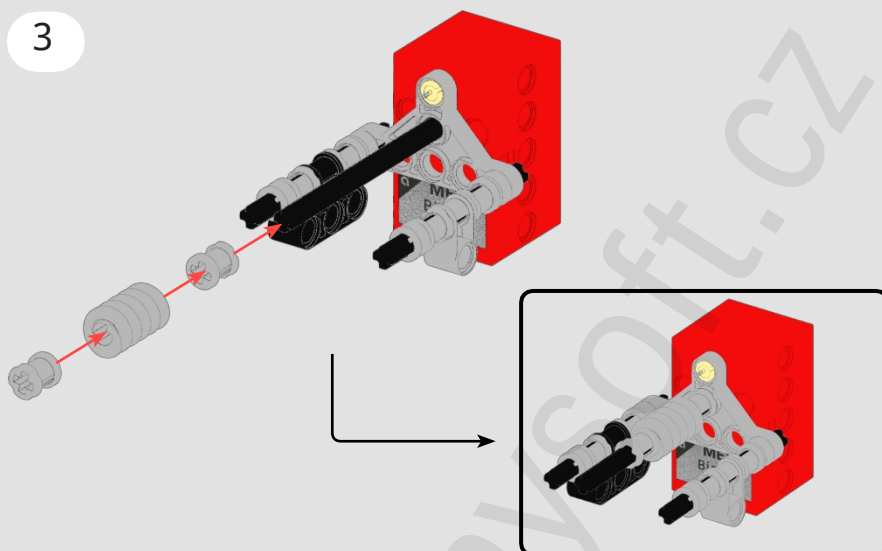
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Náprava 6H

2



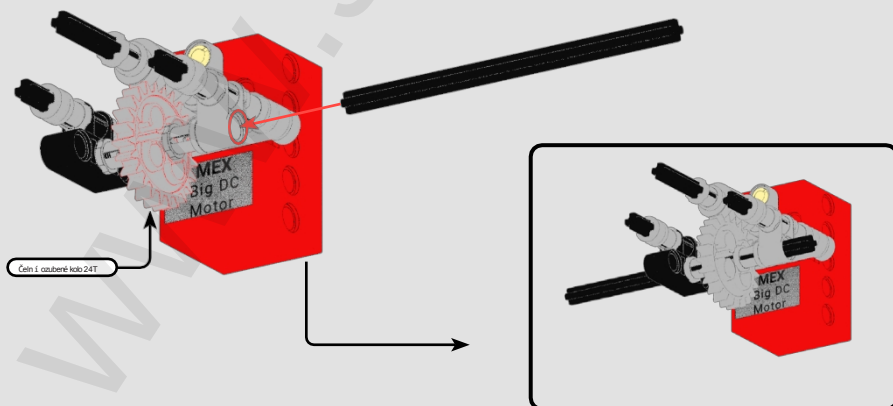
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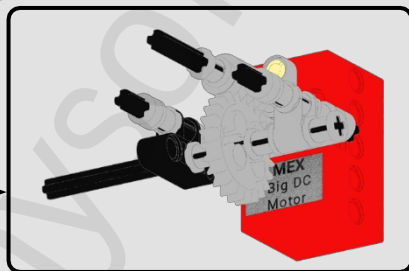
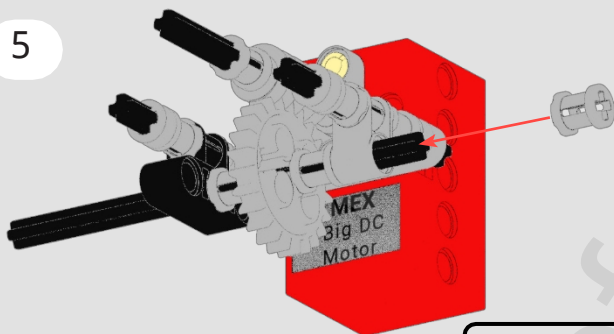
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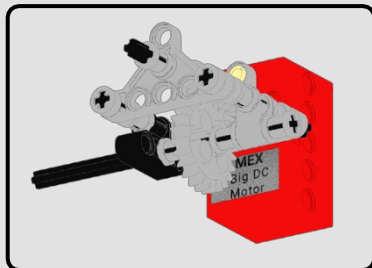
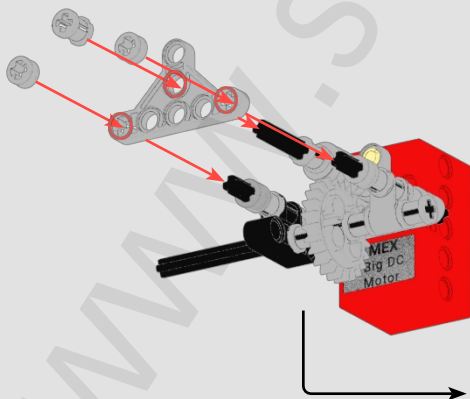
Náprava 10h



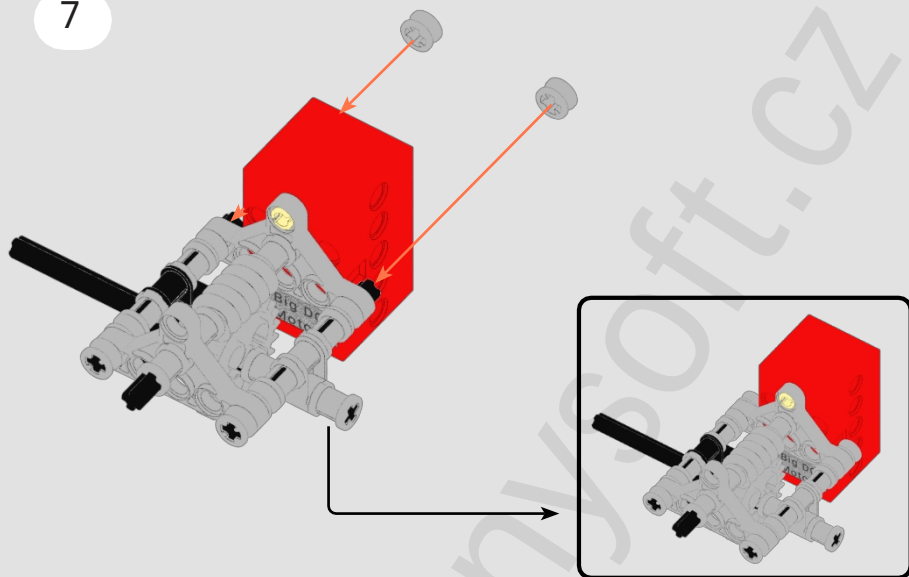
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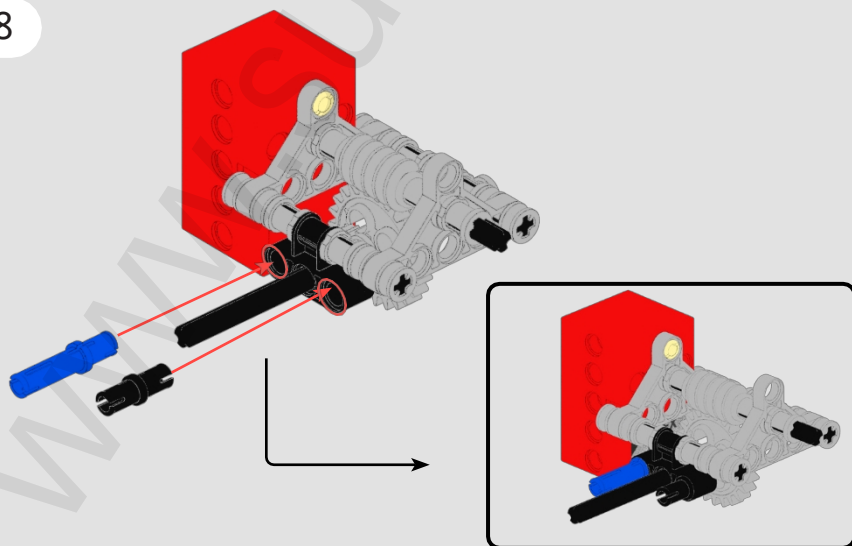
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7



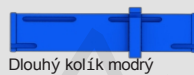
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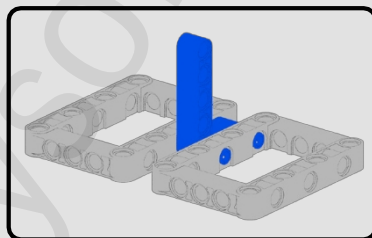
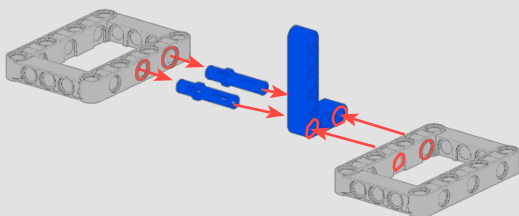
9

Vytvořme základní strukturu.

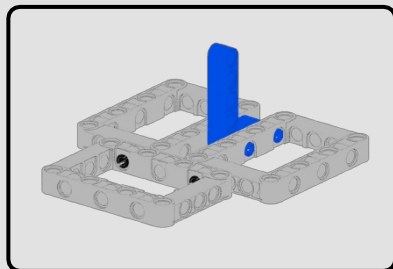
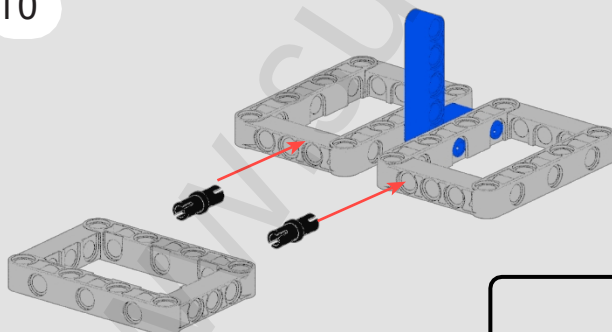
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Dlouhý kolík modrý

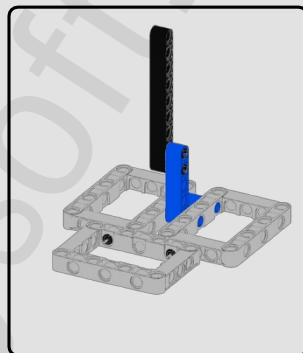
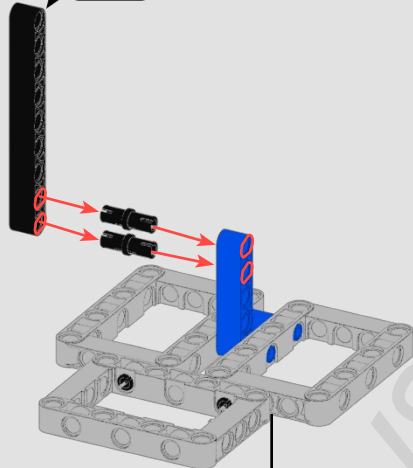


10



11

9H nosník



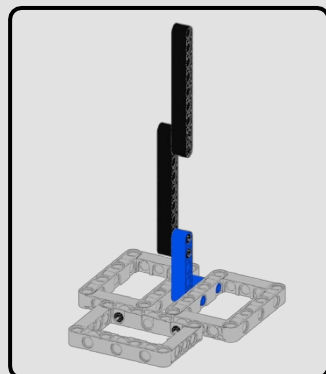
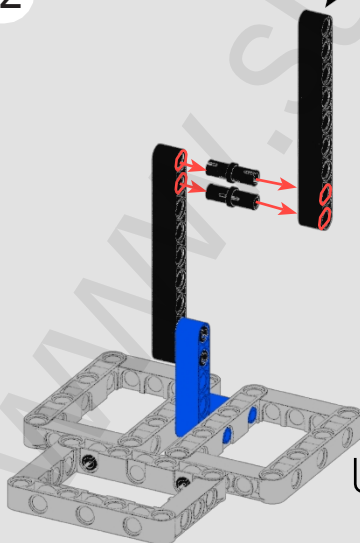
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9H nosník

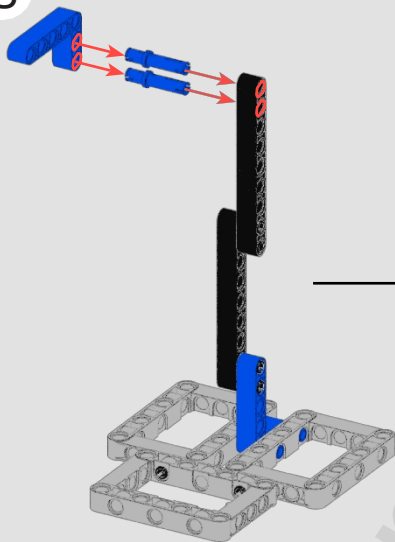
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Dlouhý kolík modrý



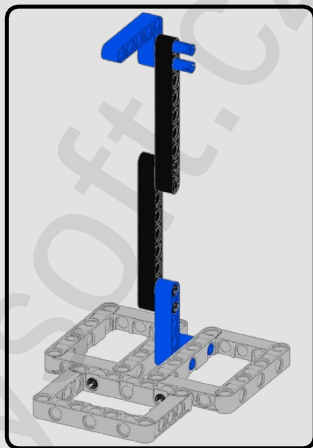
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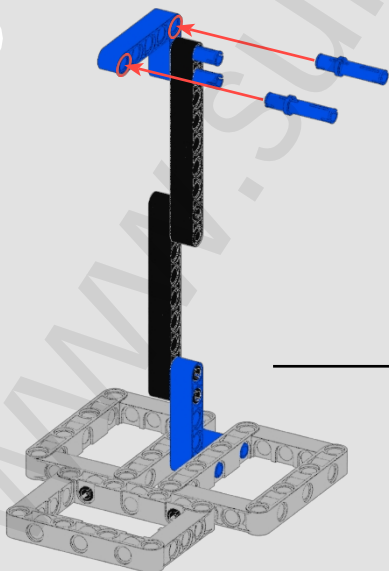
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Dlouhý kolík modrý



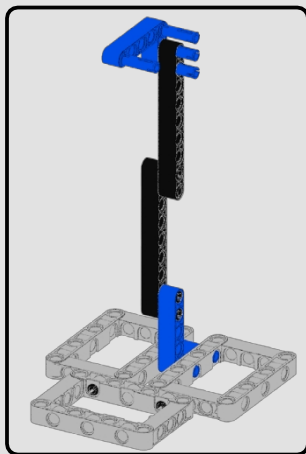
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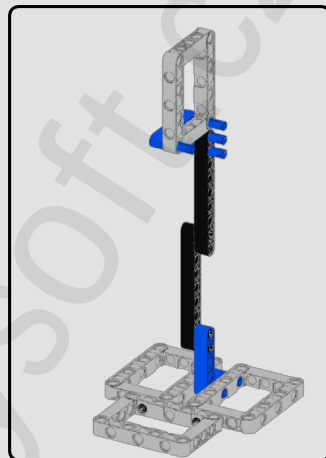
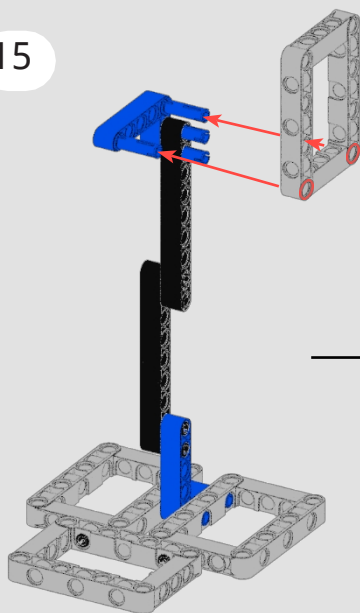
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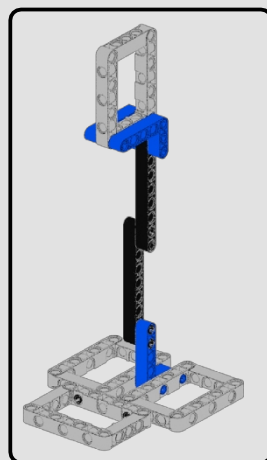
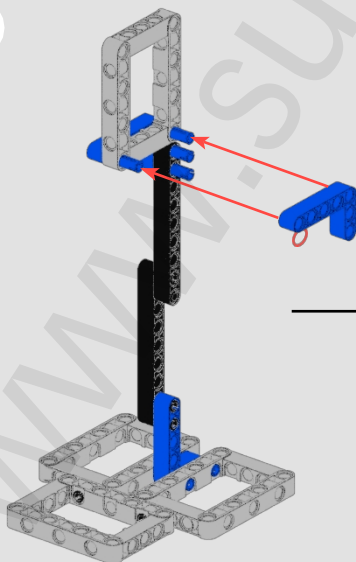
Dlouhý kolík modrý



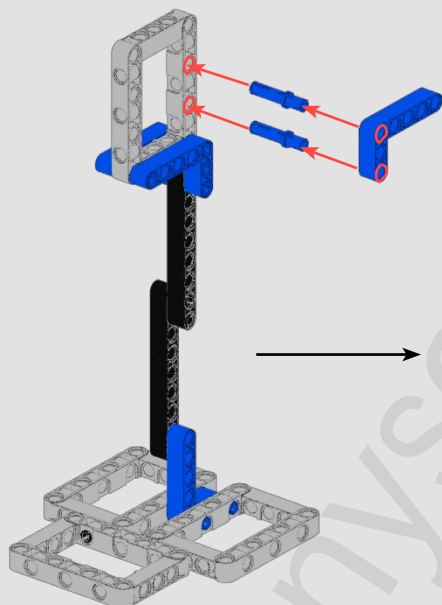
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16



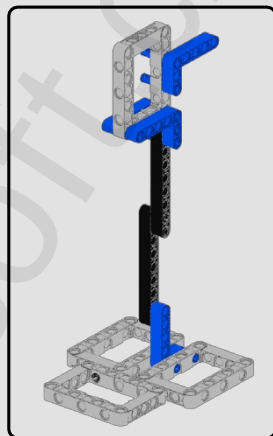
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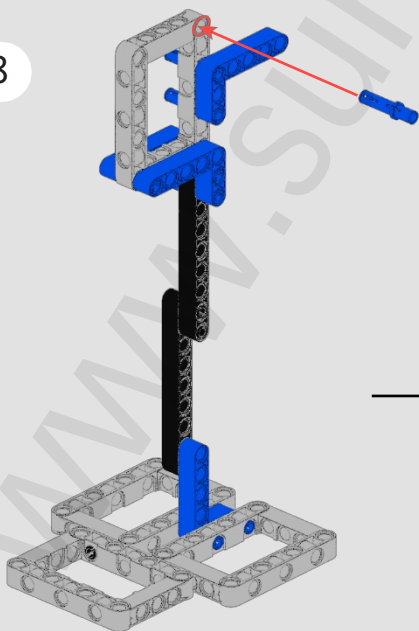
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Dlouhý kolík modrý



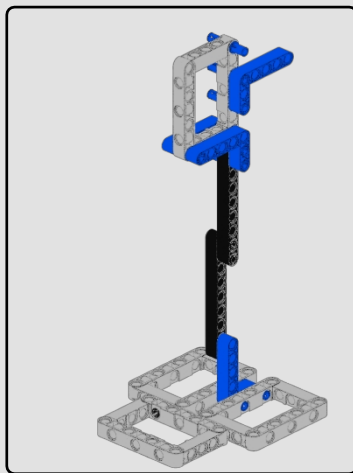
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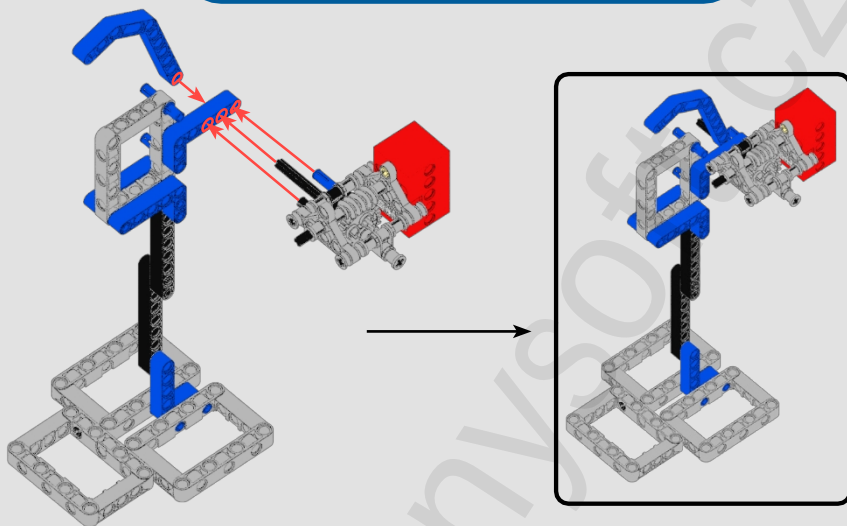


Dlouhý kolík modrý

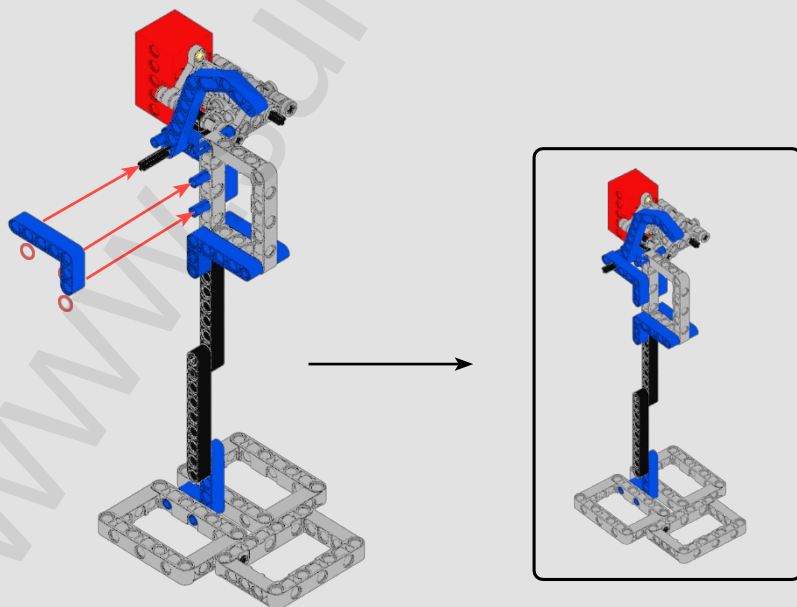


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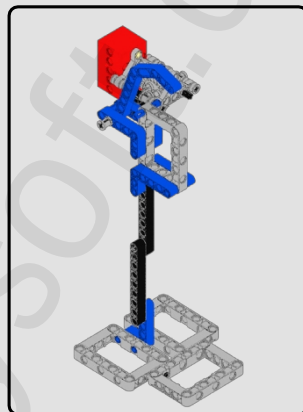
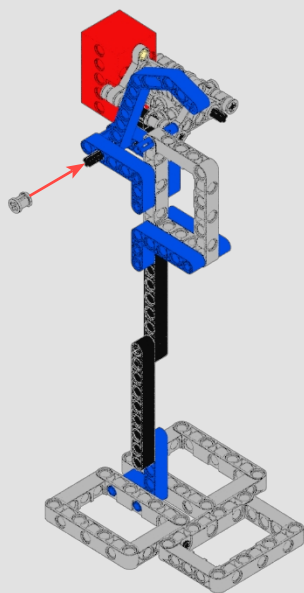
Sestavíme základní konstrukci a motorový mechanismus.



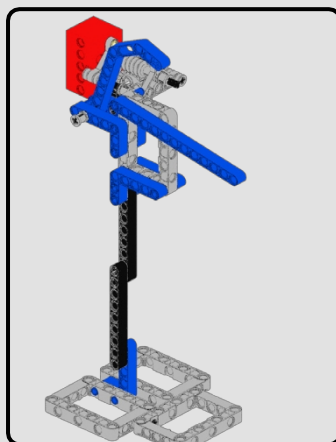
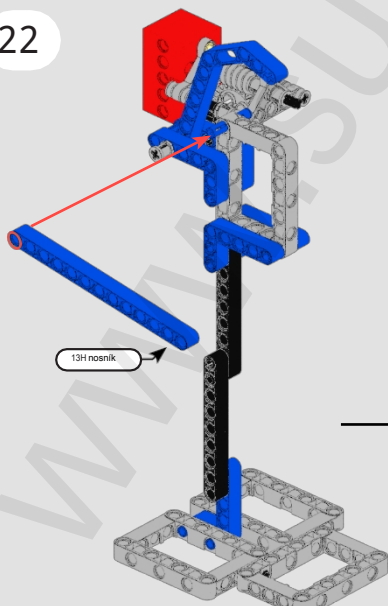
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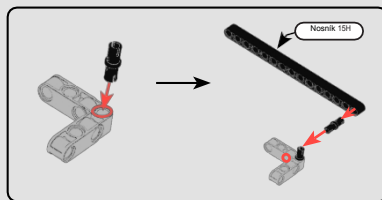
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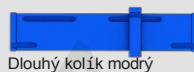
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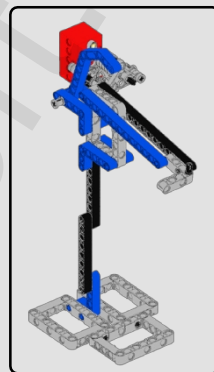
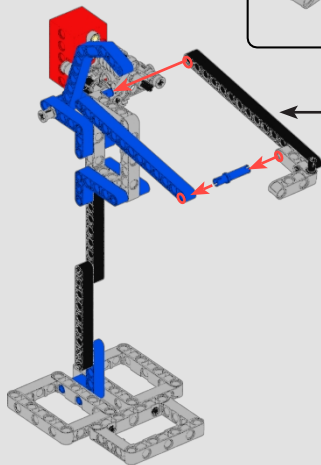
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Dlouhý kolík modrý

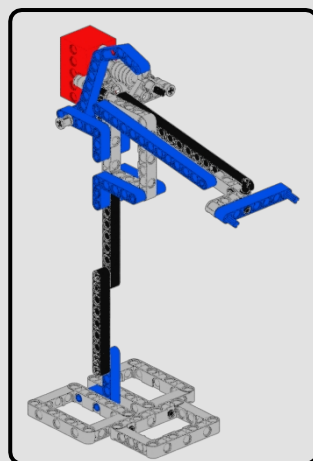
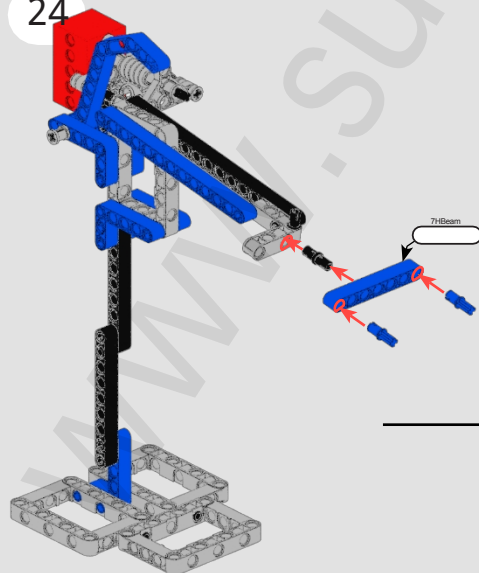


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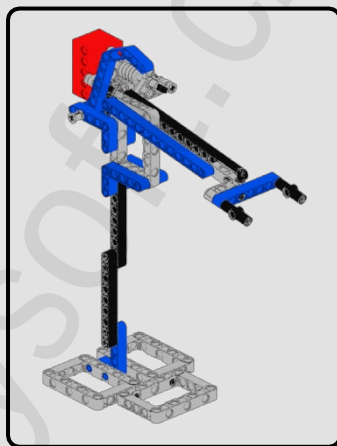
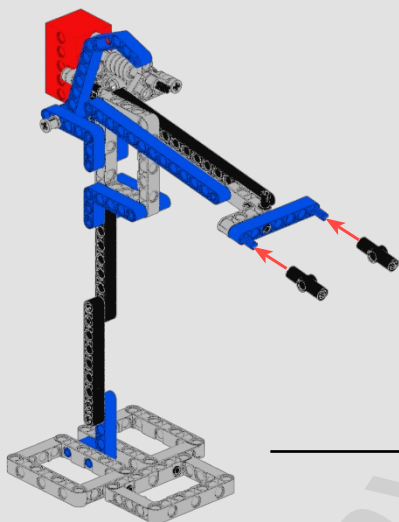
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Střední čep nápravy modrý



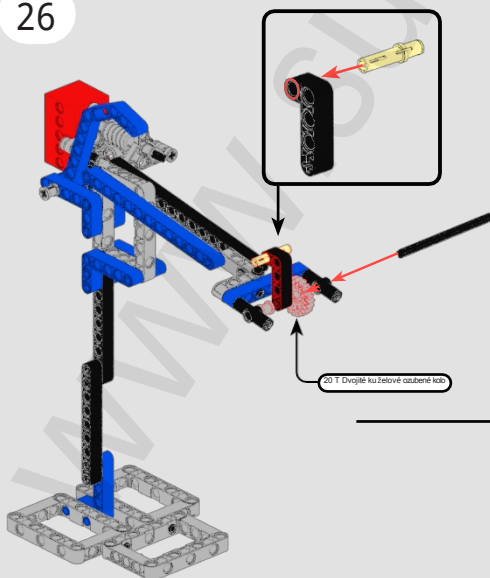
25



1:1

Náprava 8H

26

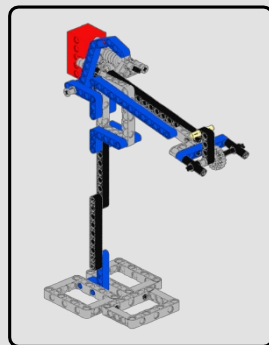


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Dlouhý kolík žlutý

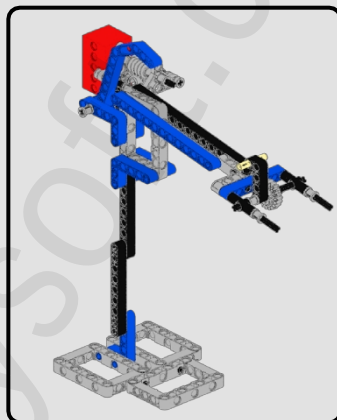
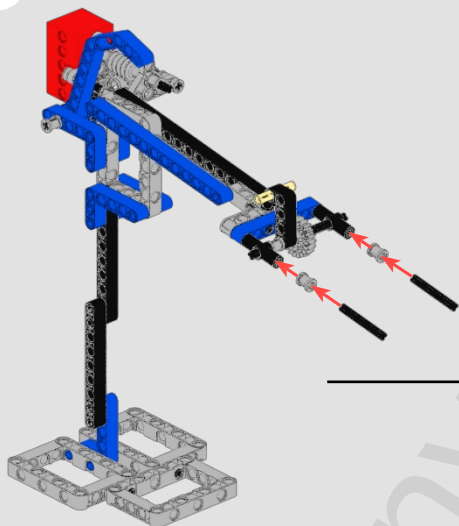
20 T Dvojitě kuželové ozubené kolo



27

1:1

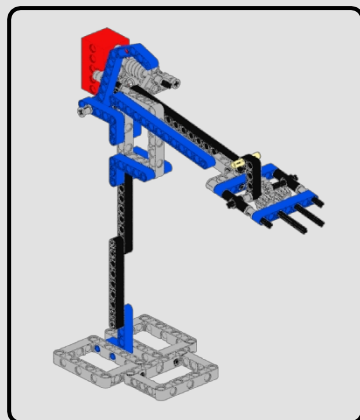
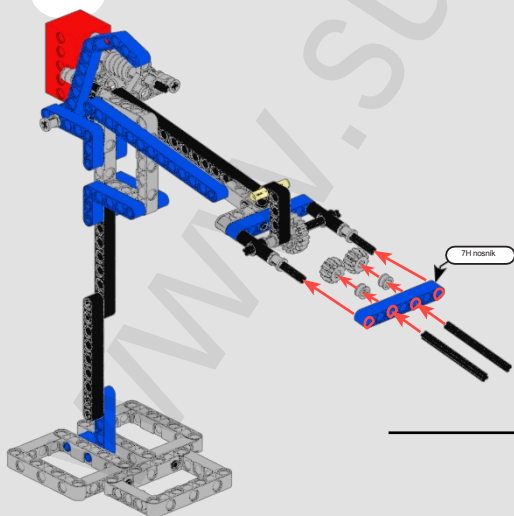
Náprava 4H



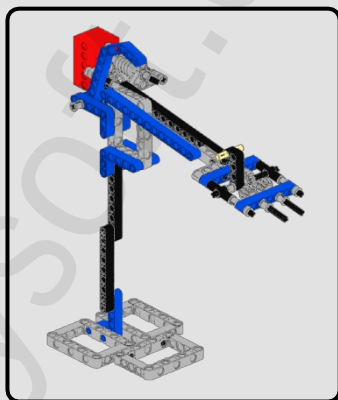
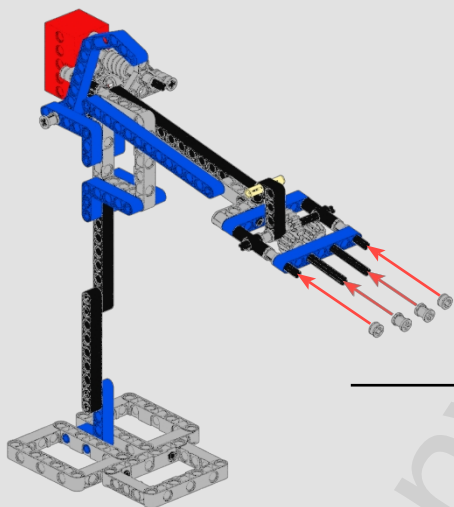
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Náprava 6H

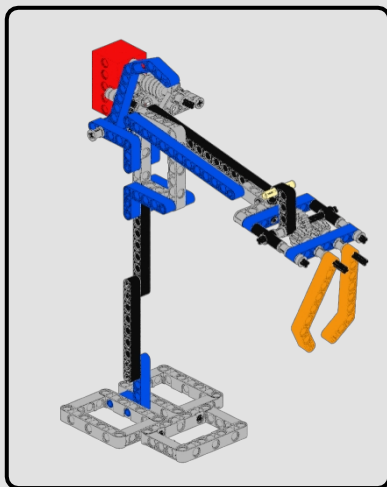
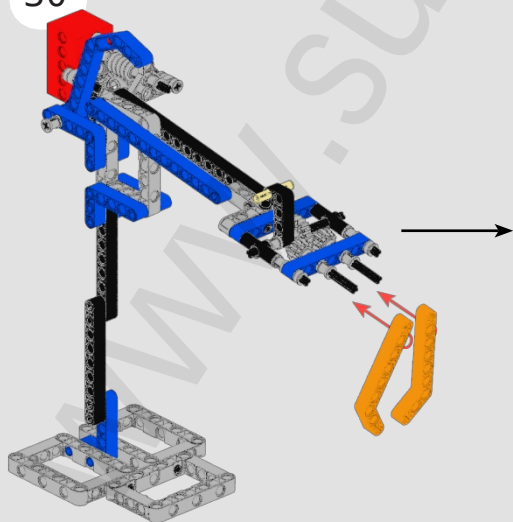
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29



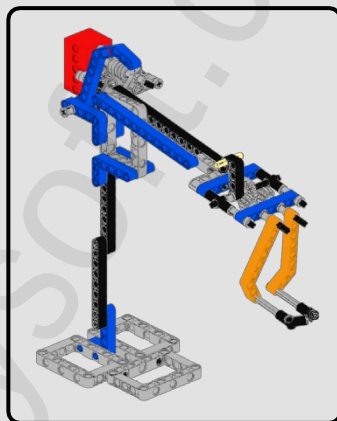
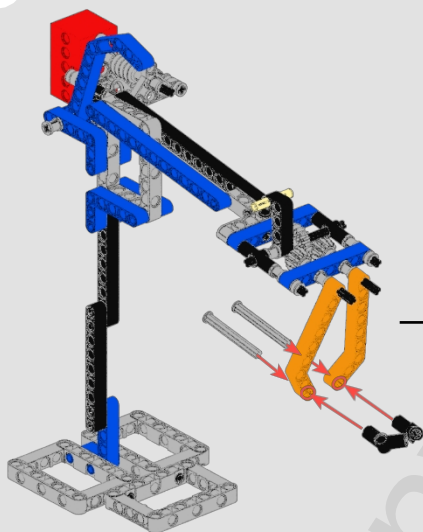
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31

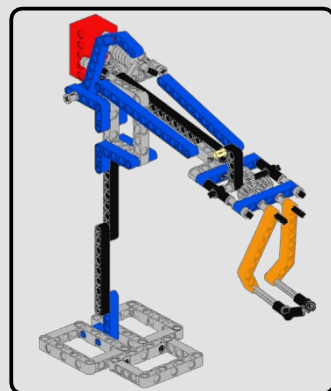
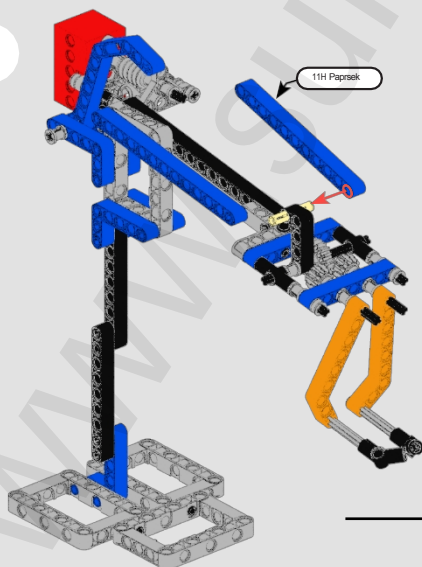
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Náprava 5H s uzávěrem

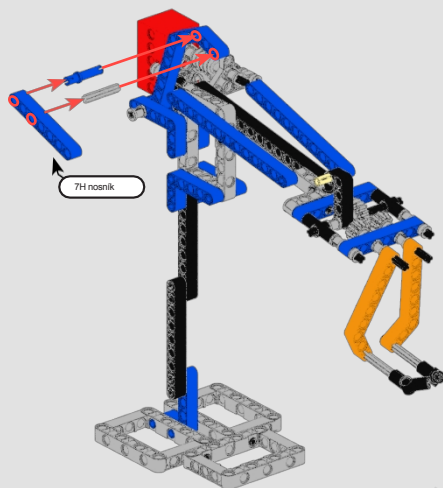


32

11H Paprsek



33

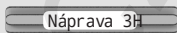


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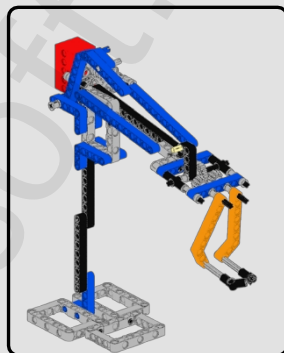


Dlouhý kolík modrý

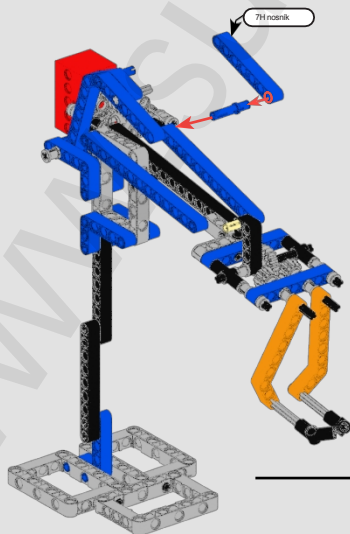
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Náprava 3H



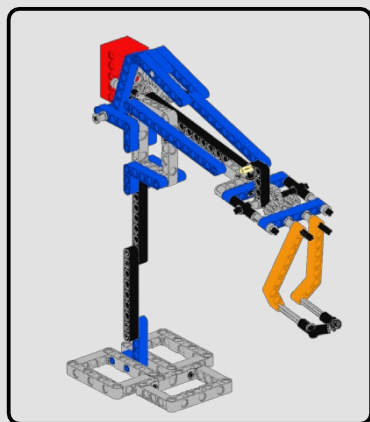
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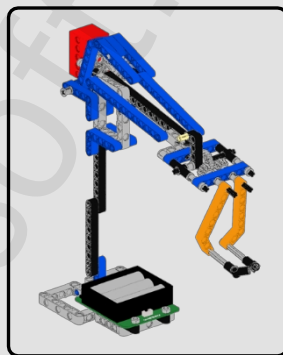
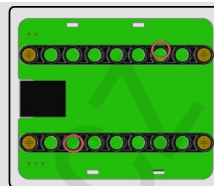
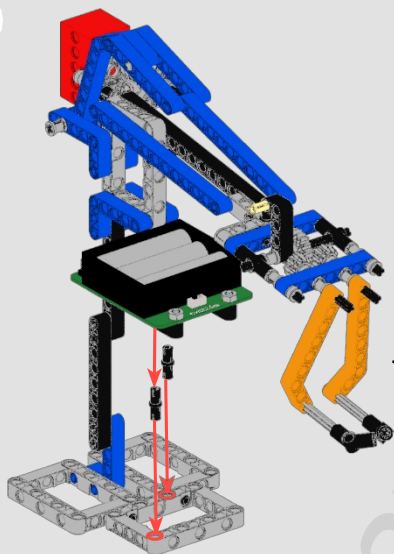
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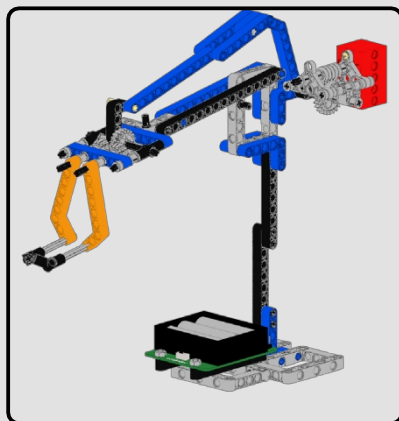
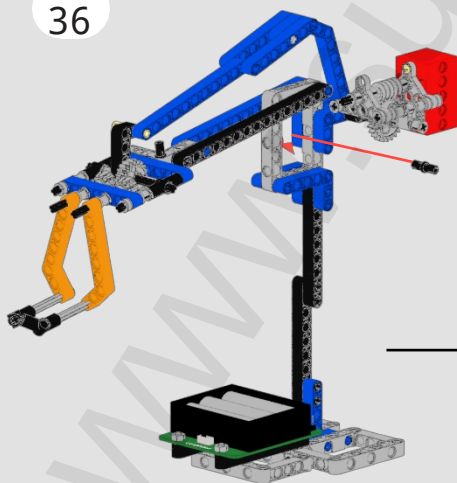
Dlouhý kolík modrý



35



36



Gratulujeme k dokončení tohoto projektu!

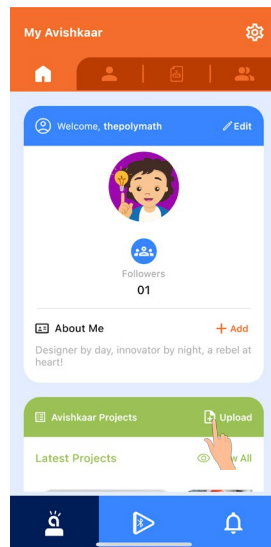
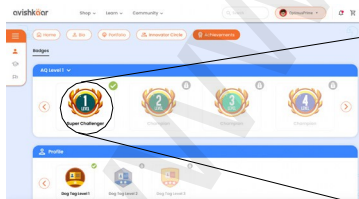
Těšíte se, až si s ním budete moci hrát pomocí mobilní aplikace avishkaar?



Podělte se o svůj výtvar se světem a vyhraďte odznak úrovně 3 "Scratch the Surface"

Nahrajte fotografie nebo videa svého projektu pomocí sekce projektů v aplikaci Avishkaar a vyhraďte odznak 3. úrovně "Scratch the Surface".

Všechny své nasbírané odznaky si můžete prohlédnout v sekci úspěchů ve svém profilu na webu www.avishkaar.cc.
Prozkoumejte všechny další odznaky, které můžete sbírat, a vyhraďte je všechny!



Máte potíže?

Naše technická podpora je vám k dispozici v těchto časech -
pondělí až soboty: 9:00 až 20:00
neděle a 3. sobota: 9:00 až 18:00



Problémy se softwarem



Problémy s použitelností



Problémy s hardwarem

Pro kontaktování podpory naskenujte QR kód.



support@avishkaar.cc

+91-8506931515

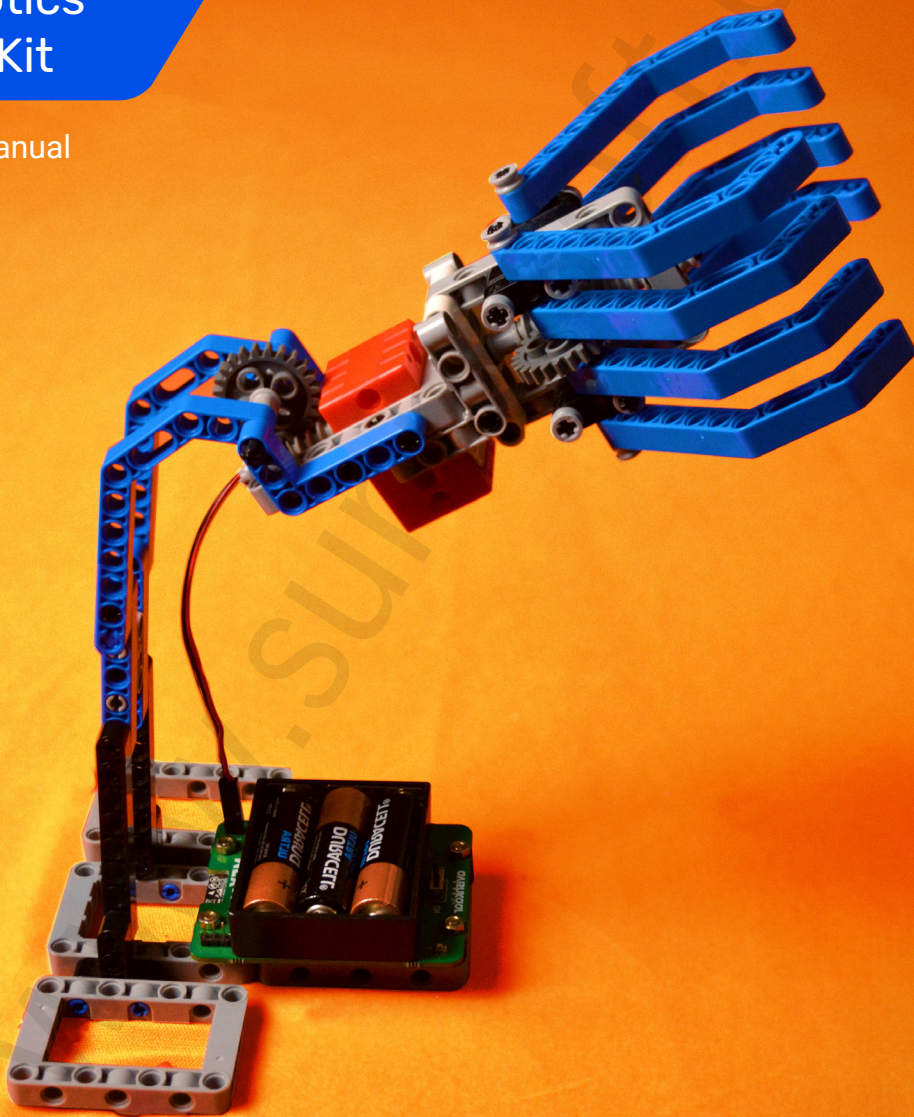
Dodavatel/Distributor

Sunnysoft s.r.o.
Kovanecká 2390/1a
190 00 Praha 9
Česká republika
www.sunnysoft.cz

MEX

Robotics Arm Kit

User Manual



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.



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

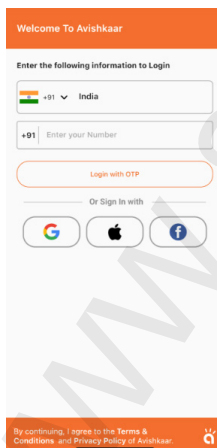
Download the Avishkaar App

Download the Avishkaar App by scanning the QR codes below:



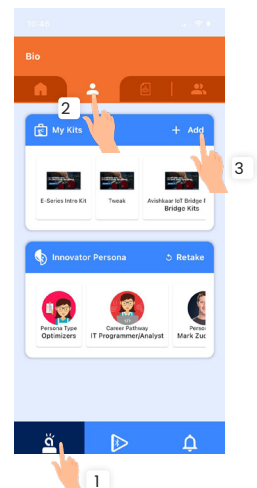
1 Create an Account

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



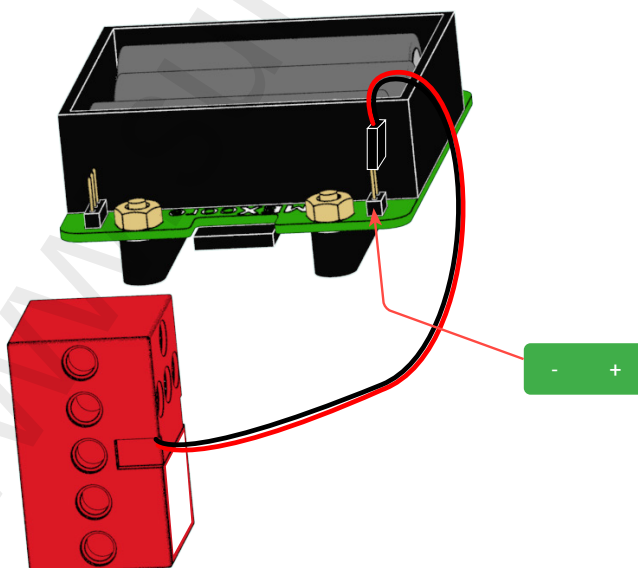
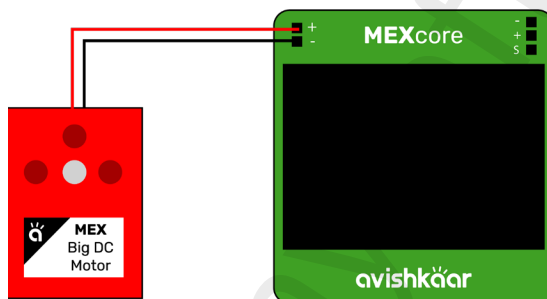
2 Register your Kit

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.



Product Registration
Sticker

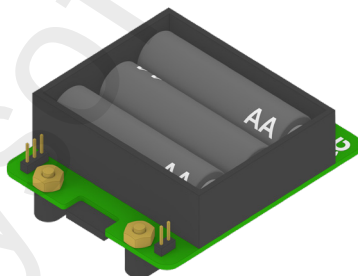
How to connect the motor to MEXcore



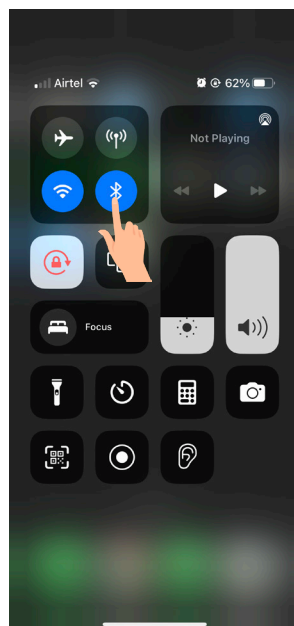
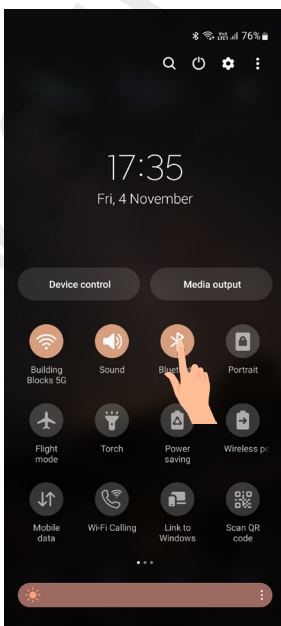
App Control

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

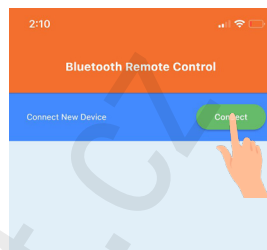
Note - Use AA alkaline cells only. (Any other type of cells can damage the the MEXcore.)



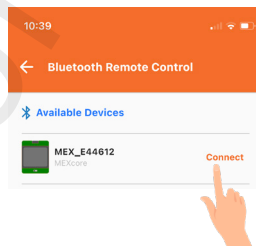
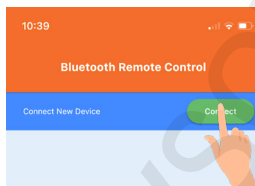
- 2 Turn ON the bluetooth on your phone.



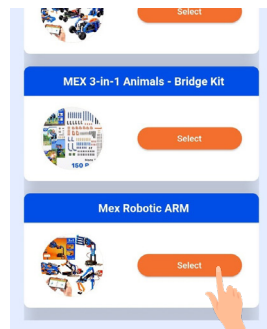
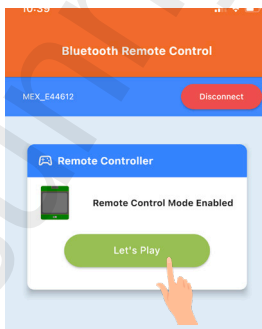
- 3 Open the Avishkaar App and click on the 'Play' button inside the 'Home' section.



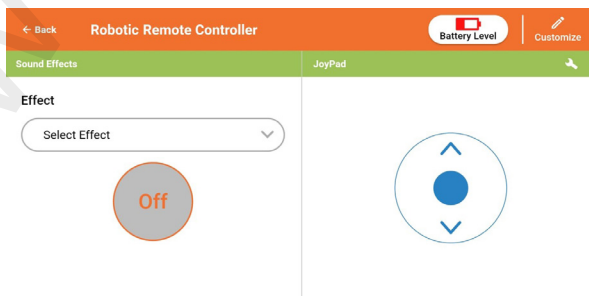
- 4 Click on 'Connect'. Your app should be able to find your MEXcore if it is turned ON. Click on 'Connect' once your app detects your MEXcore.



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



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

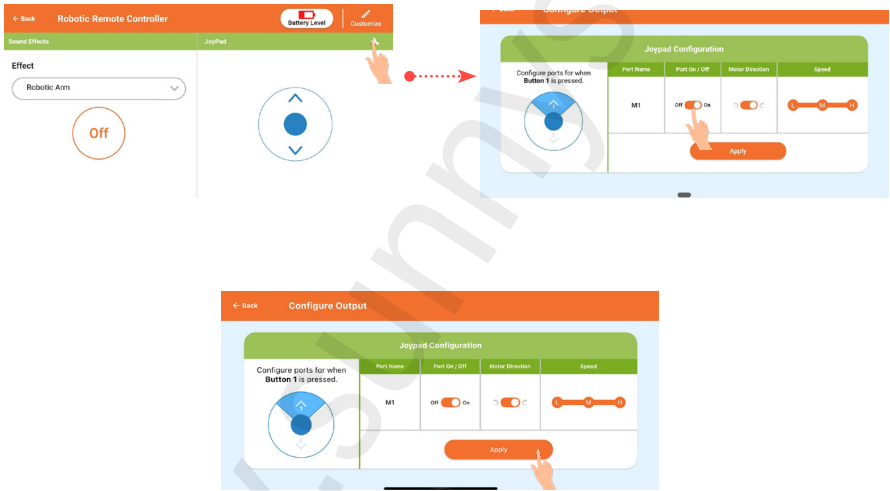


Configure

Sound effects

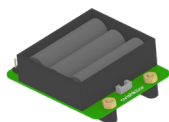


Joystick

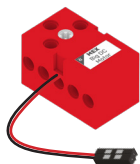


Armour Check

Box 1 (Electronics)



Avishkaar
MEXCore
x 1



MEX big DC
motor
x 1

Box 2 (Construction parts)

BEAM



15H Beam
x 1



13H Beam
x 1



11H Beam
x 1



3H Beam
x 4



9H Beam
x 2

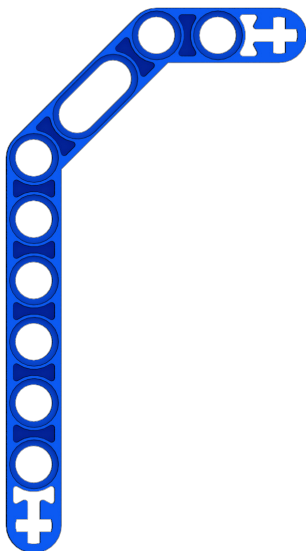


5H Beam
x 2

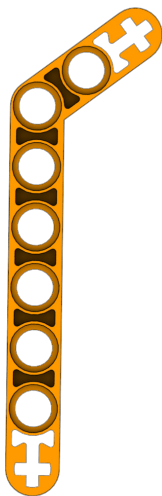


7H Beam
x 4

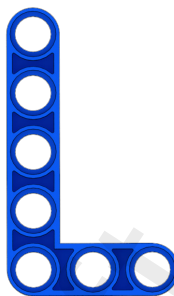
Note: 'H' stands for holes. Eg. 15H beam means beam with 15 holes.



2Cx10H Double
Bend Beam
x 10



2C x7H Single Bend
x 2



7H L-Beam
x 5



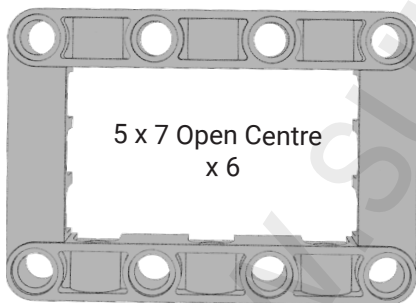
1Cx4H L-Beam
x 3



2Cx1H
Thin-Beam
x 1



5H T-Beam
x 2



5 x 7 Open Centre
x 6

FILLERS

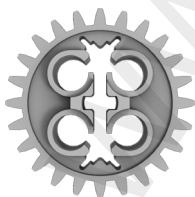


Axle Filler- Big
x 16



Axle Filler- Small
x 16

GEAR



Spur Gear-24T
x 3



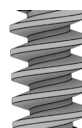
Spur
Gear-16T
x 2



12T Double
Bevel gear
x 2

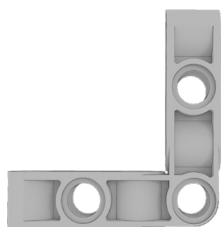


20T Double
Bevel gear
x 1

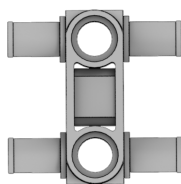


Worm Gear-Big
x 3

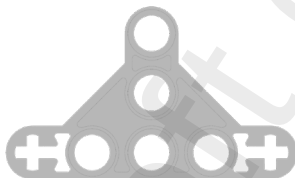
CONNECTORS



4 x 4 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 x 1H
Perpendicular
x 4

PINS



Long Pin-Blue
x 13



Long Pin-Yellow
x 1



Medium Pin-Black
x 22



Medium Pin-Grey
x 2



Medium Axle
Pin-Blue
x 2

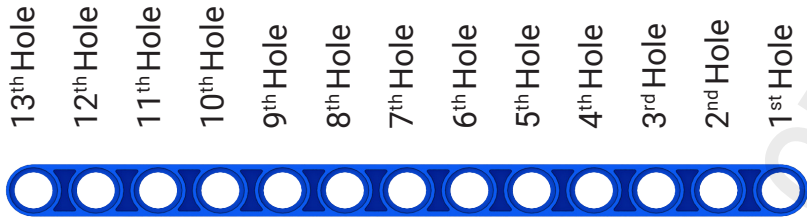


Short Pin-Yellow
x 2

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

All About Axles

NOTE: The axles are in 1:1 with the imprinted slots (**XH Axle**) in manual.



1:1



3H
Axle
(3)



4H
Axle
(2)



5H
Axle
(1)



5H
capped
Axle
(2)



6H
Axle
(4)



7H
Axle
(1)



8H
Axle
(3)

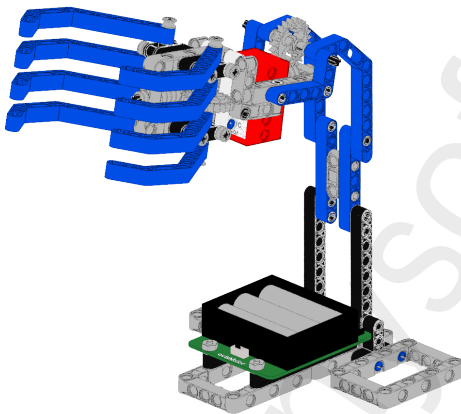


10H
Axle
(1)

13H
Beam

Project 1: MEX Grabber

Let's Build!



Things we need



9H Beam
x 2



7H Beam
x 2



5H Beam
x 2



7H L-Beam
x 2



3H Beam
x 4



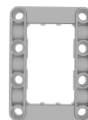
2Cx10H
Double Bend
Beam
x 10



5H T-Beam
x 2



4 x 4 Perpendicular
L Connector x 2



Open centre
x 6



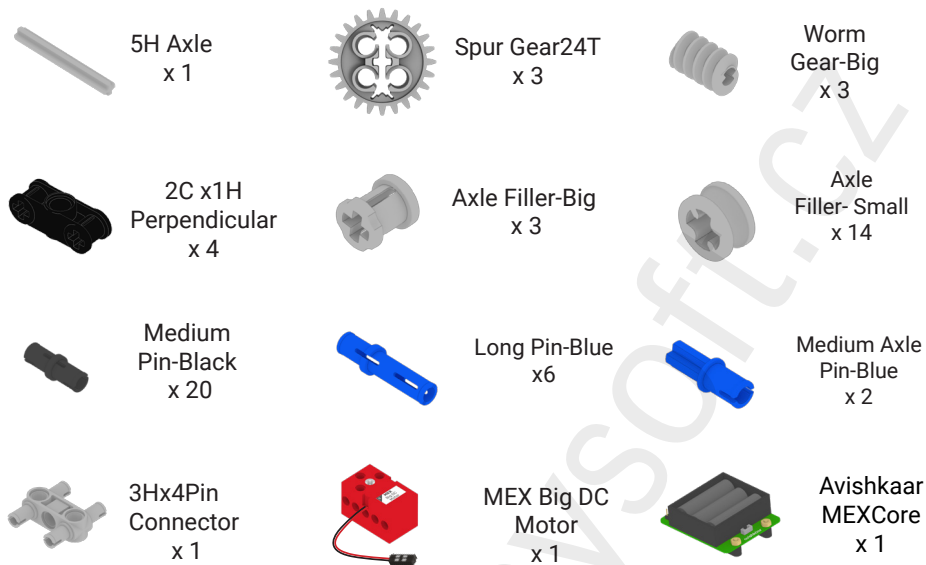
10H Axle
x 1



8H Axle
x 3

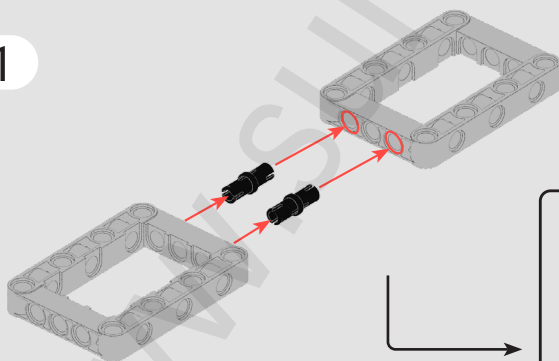


6H Axle
x 4



Steps

1



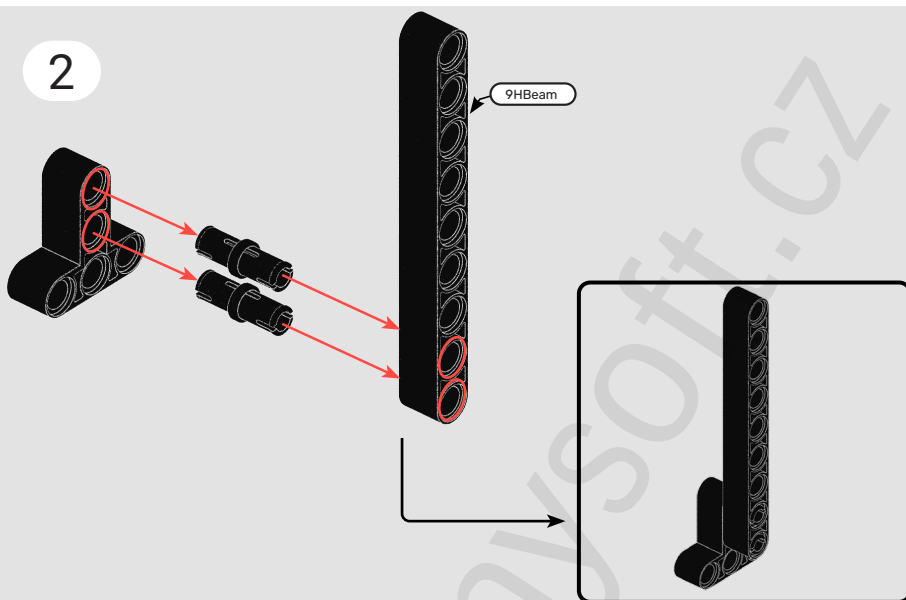
Build Tip



Black Medium Pins can be a little tough to insert!
But don't worry. Push it through and make sure the joint is firm. They can take a little force. :)

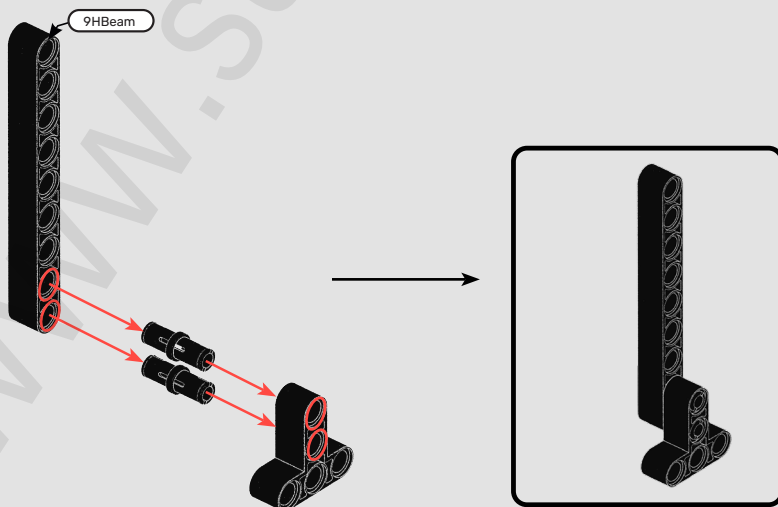


2



3

Let's make the another side.

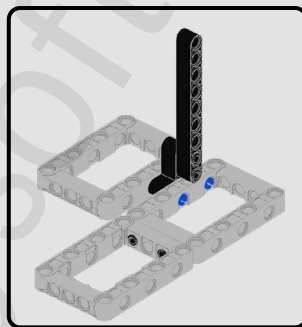
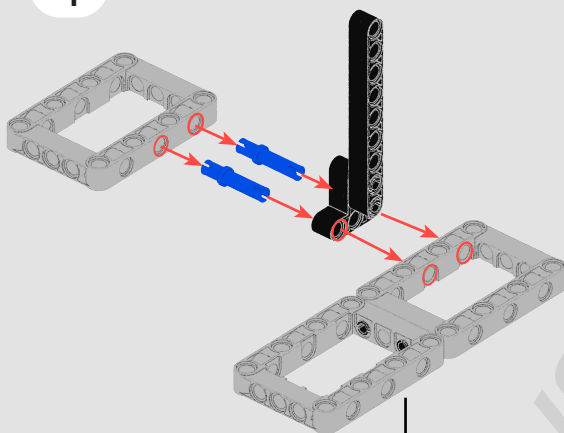


4

1:1

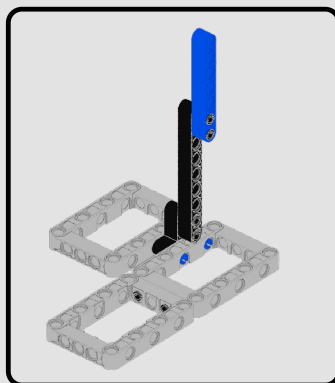
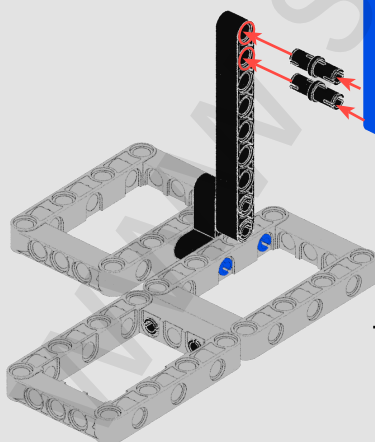


Long Pin Blue

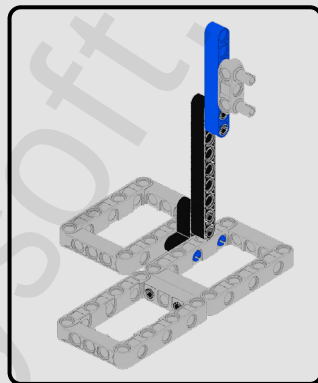
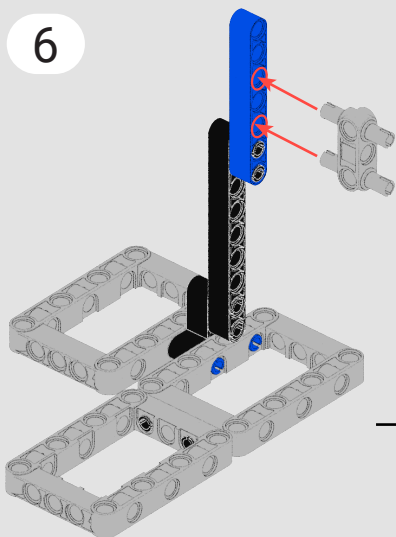


5

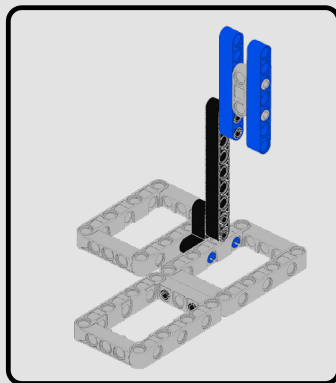
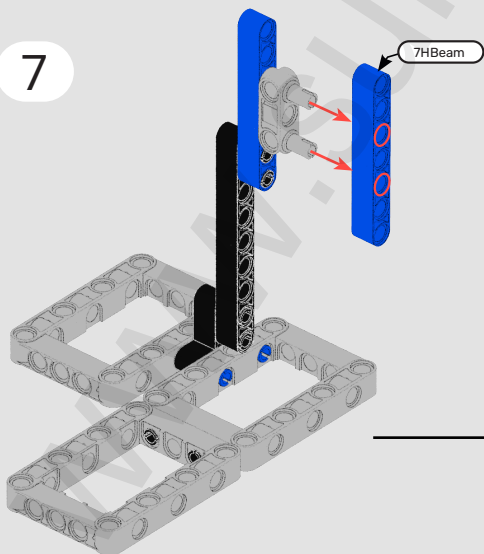
7HBeam



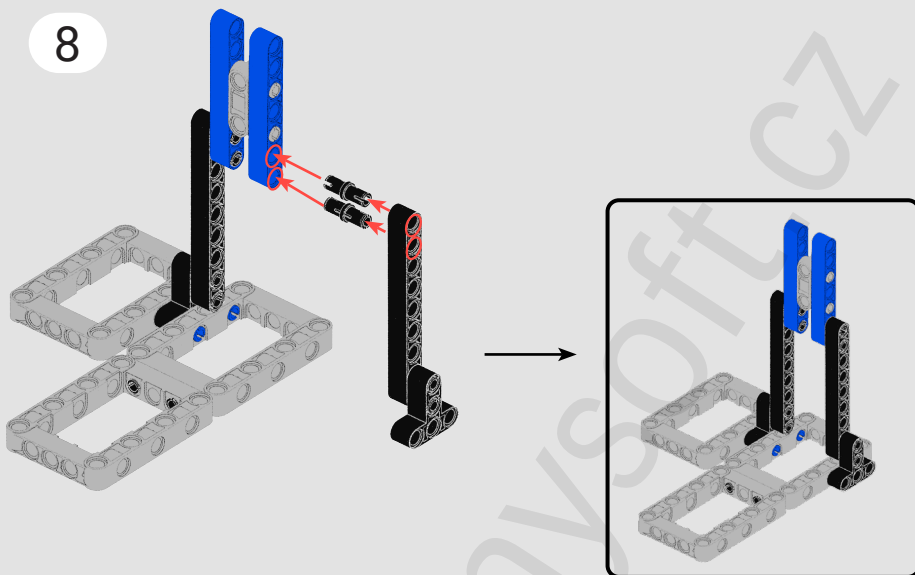
6



7



8

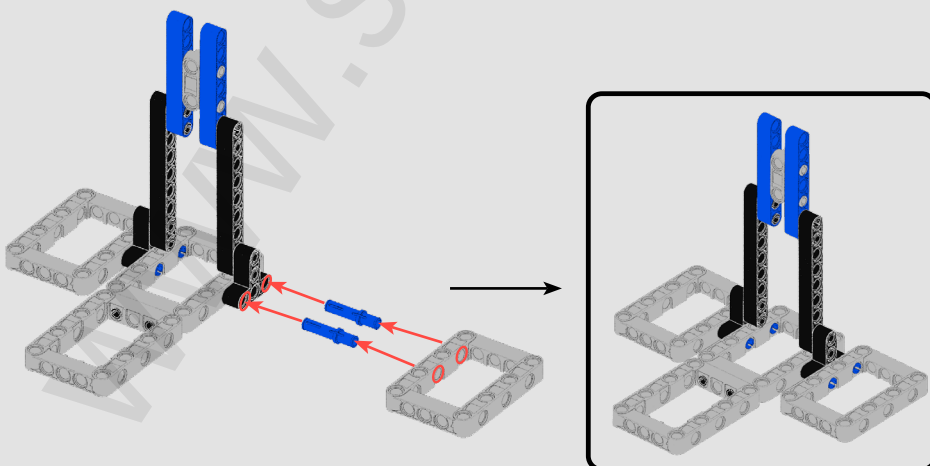


9

1:1



Long Pin Blue

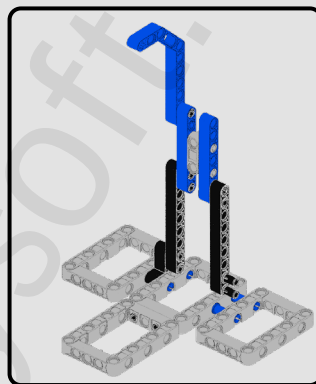
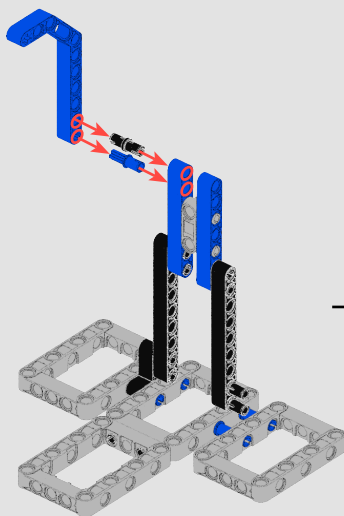


10

1:1



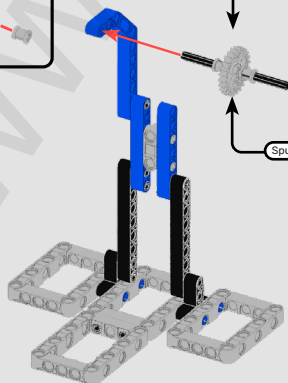
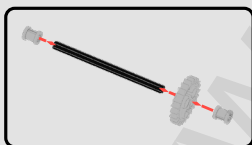
Medium Axle Pin Blue



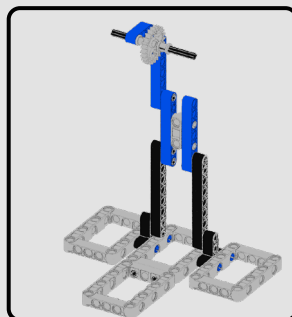
11

1:1

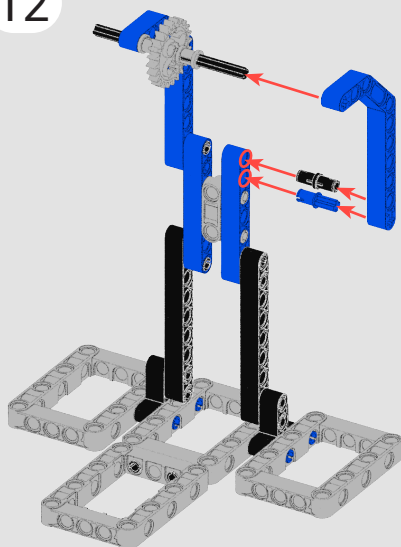
8H Axle



Spur 24T spur gear



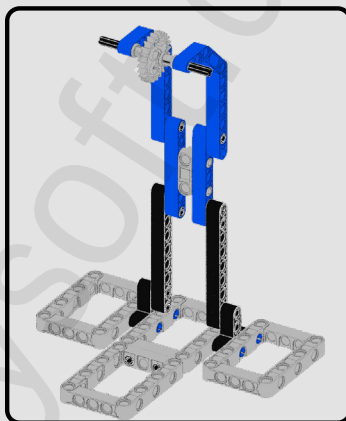
12



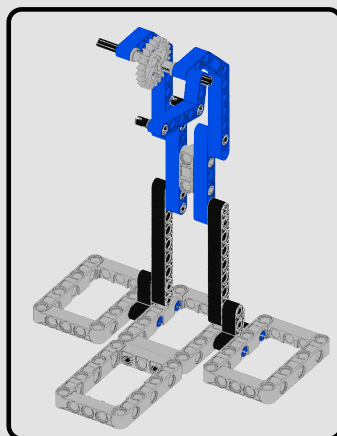
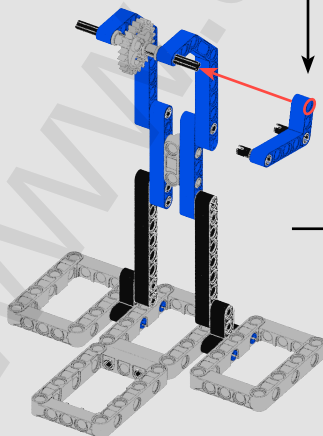
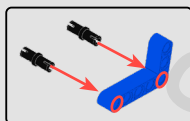
1:1



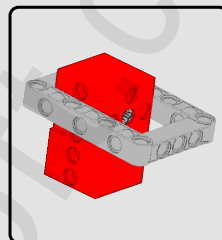
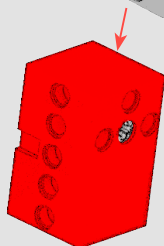
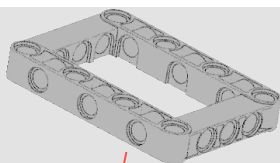
Medium Axle Pin Blue



13



14



Build Tip



Black Medium Pins can only be inserted on one side of the motor!

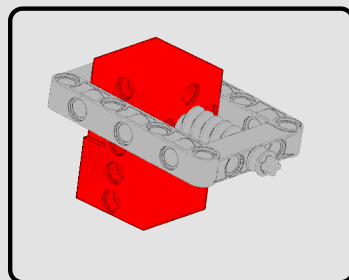
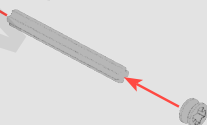
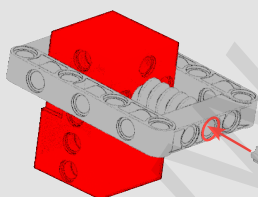
The black pins can only be inserted on the side of the motor with the white sticker. On the other side with no sticker - only small yellow pins can be used.



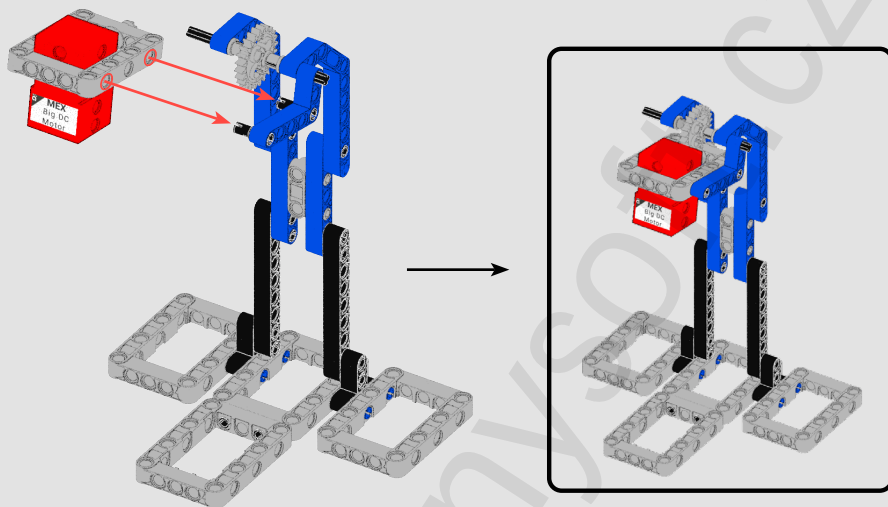
15

1:1

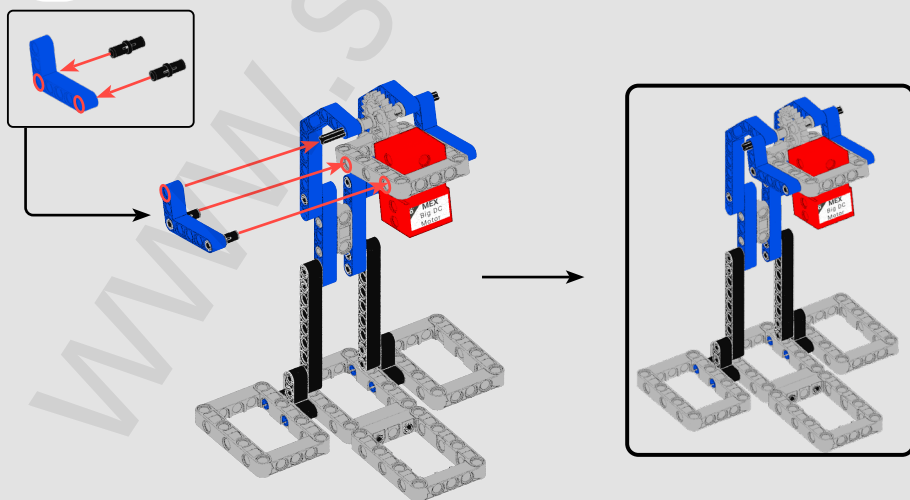
5H Axle



16



17



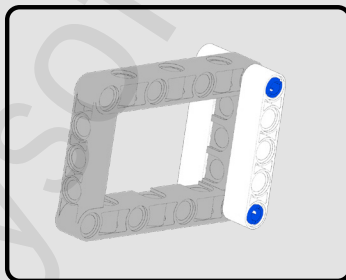
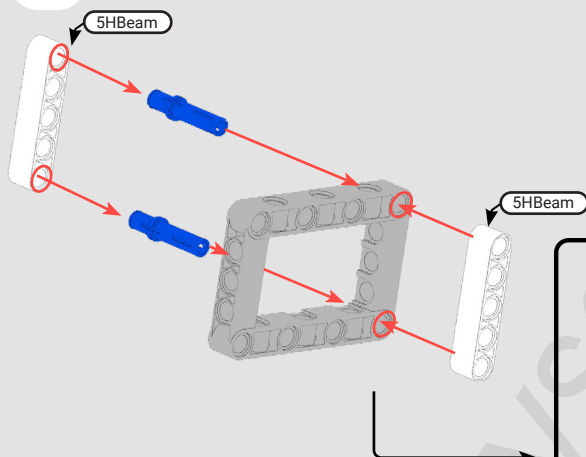
18

Let's make the Claw.

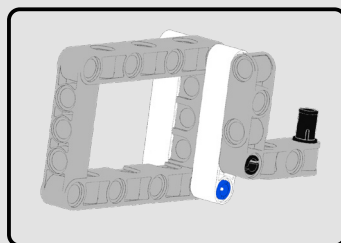
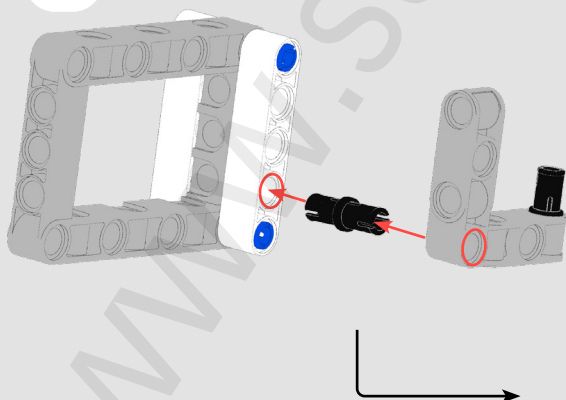
1:1



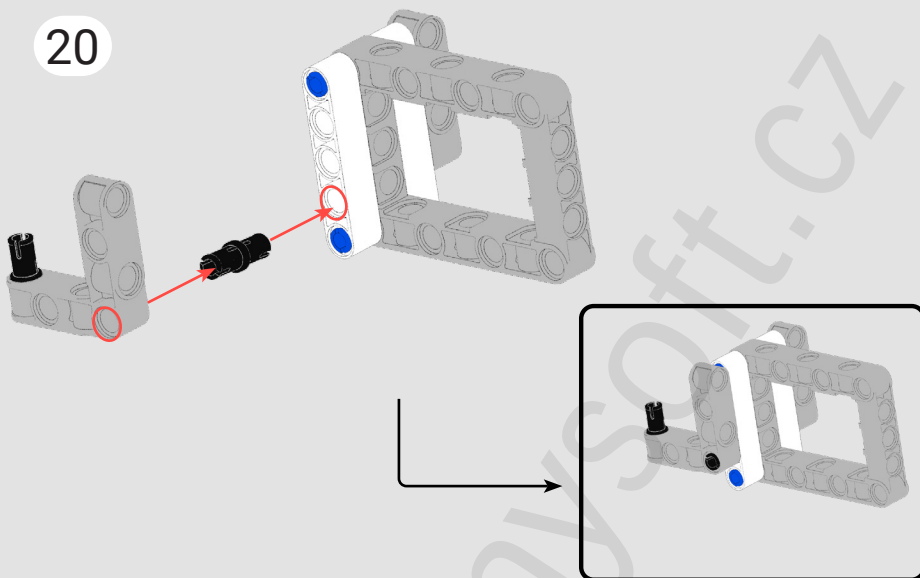
Long Pin Blue



19



20

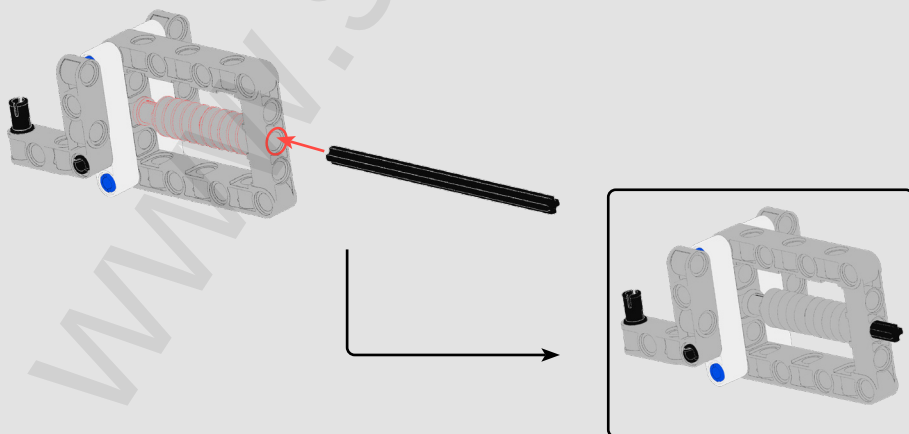


21

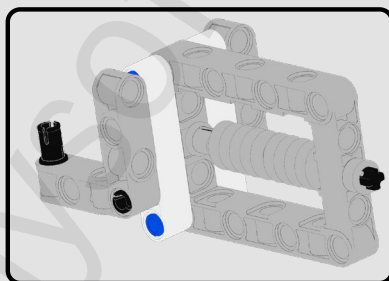
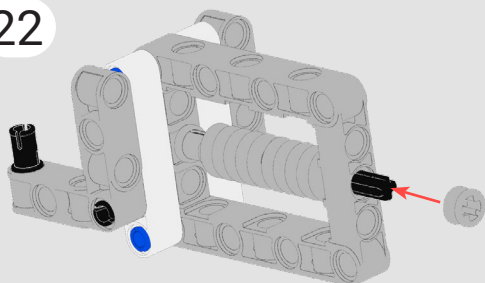
1:1

10H Axle

Note: using two Worm Gear-Big.



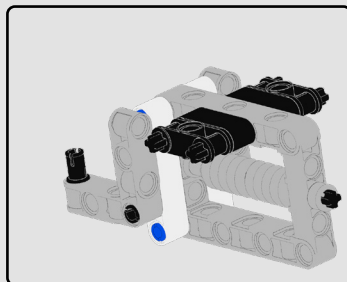
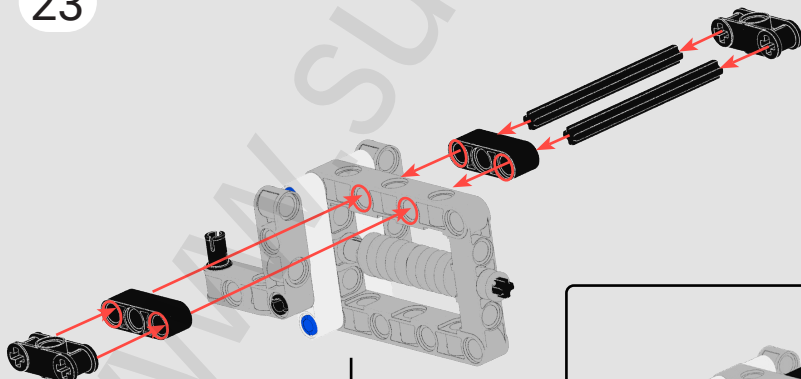
22



23

1:1

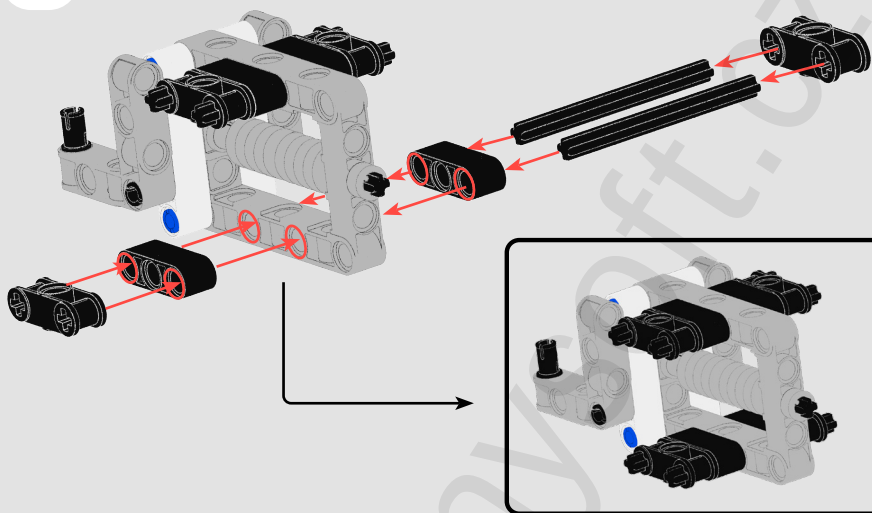
6H Axle



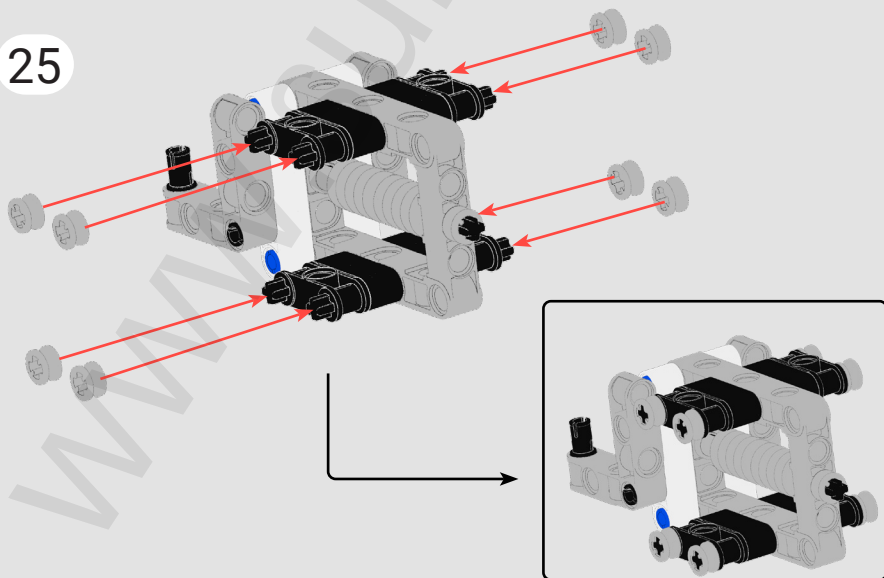
24

1:1

6H Axle



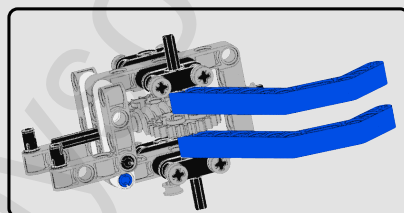
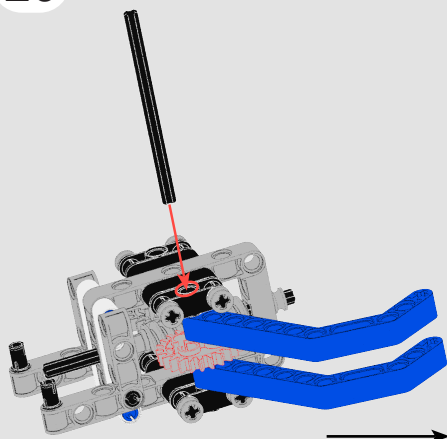
25



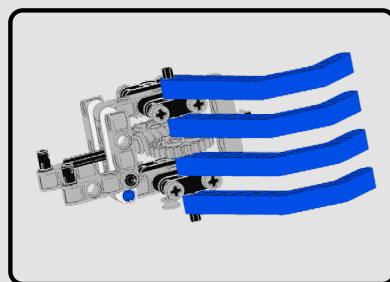
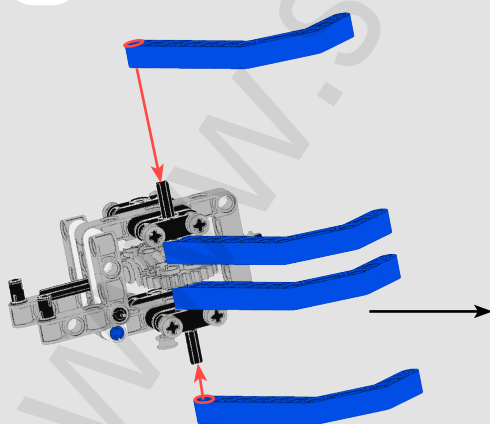
26

1:1

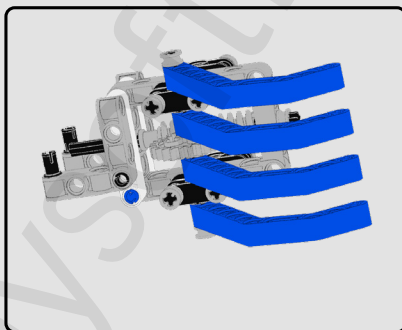
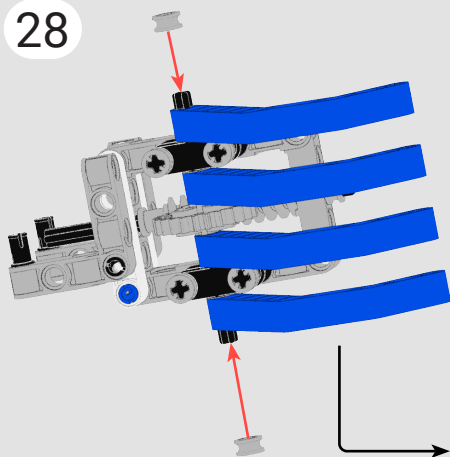
8H Axle



27



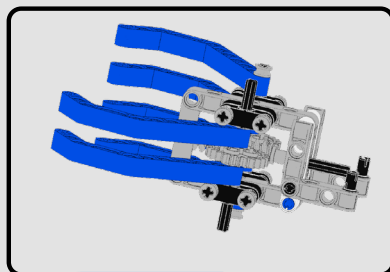
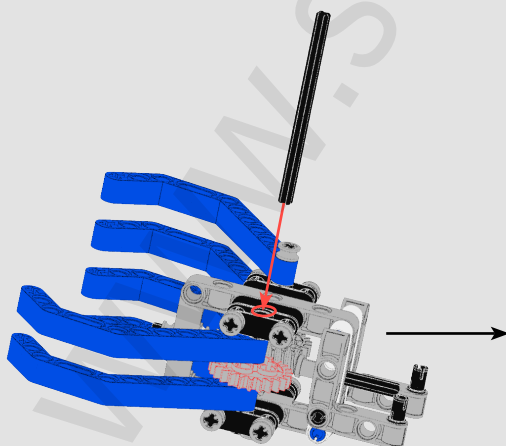
28



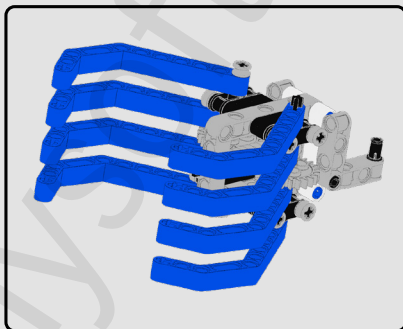
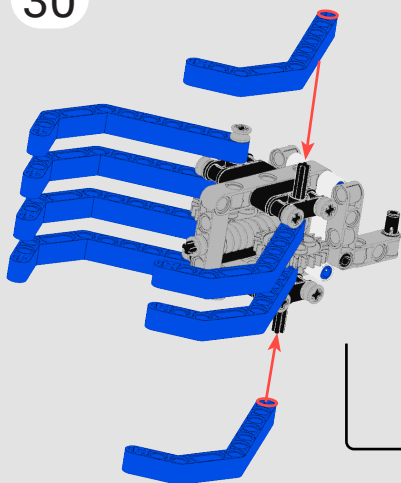
29

1:1

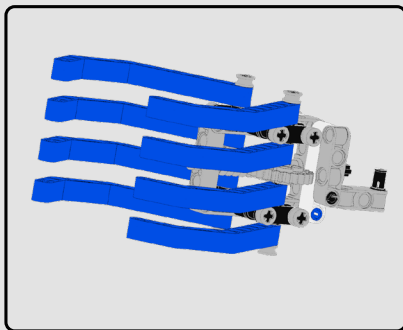
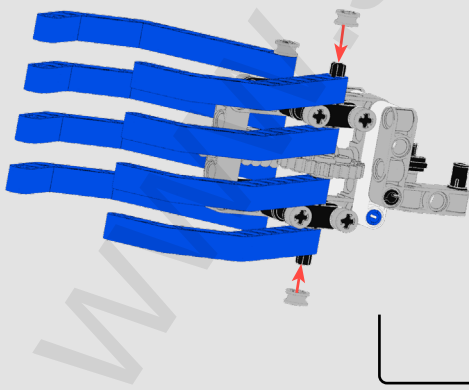
8H Axle



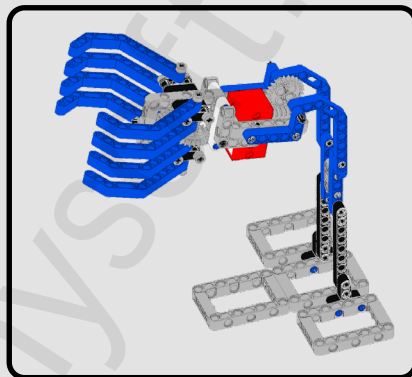
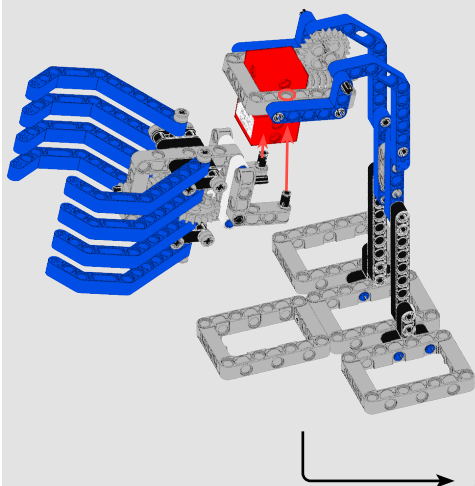
30



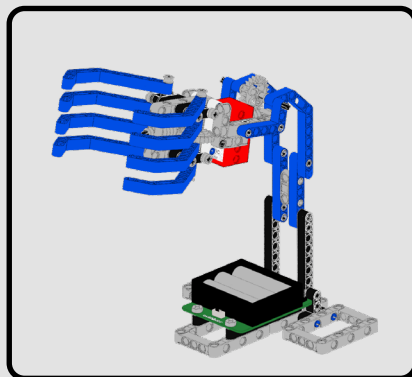
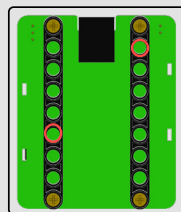
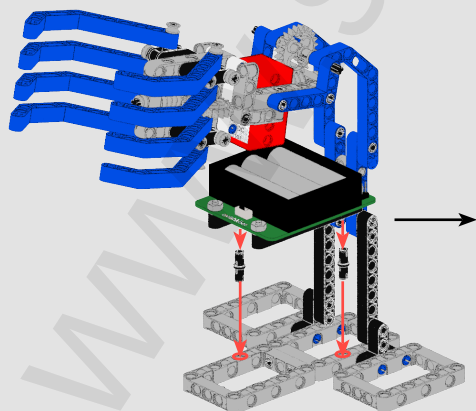
31



32



33



Congratulations on Completing this Project!

Excited to play with it using the avishkaar mobile app?

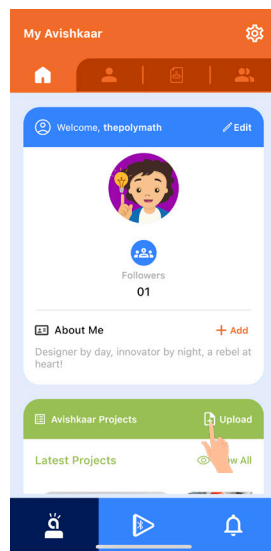
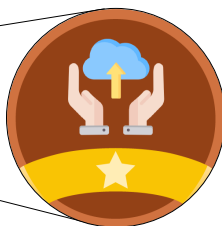
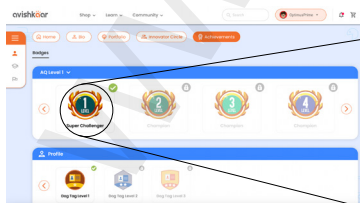
Go to Pg 8 about the detailed instructions on how to download the app and control your bot using it.



Share your Creation with the World and Win the 'Scratch the Surface' Level 1 Badge

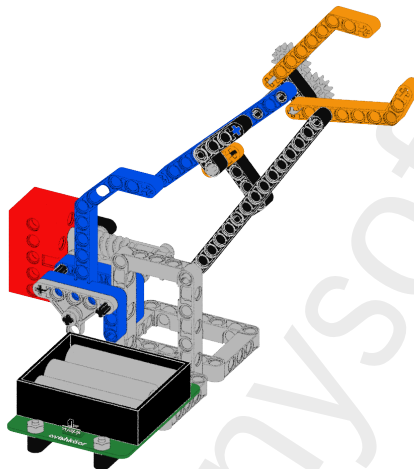
Upload photos or videos of your project using the project section of the Avishkaar App to win the 'Scratch the Surface' Level 1 Badge.

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!



Project 2 : MEX Cyber Claw

Let's Build!



Things we need



15H Beam
x 1



11H Beam
x 1



3H Beam
x 1



7H L-Beam
x 2



1Cx4H L-Beam
x 3



2Cx10H
Double Bend Beam
x 1



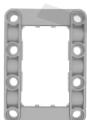
2C x 7 H
Single Bend
Beam
x 2



5H T-Beam
x 1



2Cx1H
Thin-Beam
x 1



Open centre
x 3



2C x 5H
Triangle
x 2



Worm
Gear-Big
x 1



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



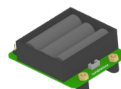
Shot pin yellow
x 1



Long Pin-Blue
x3



MEX Big DC
Motor
x 1



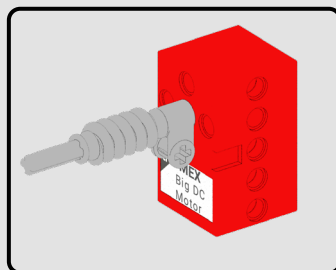
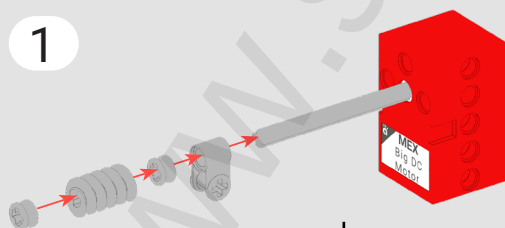
Avishkaar
MEXCore
x 1

Steps

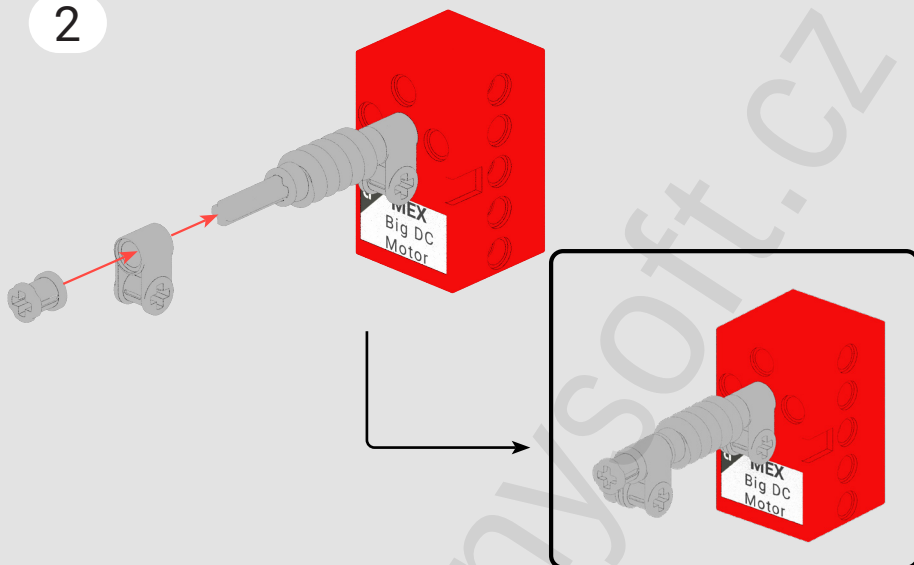
1:1

7H Axle

1



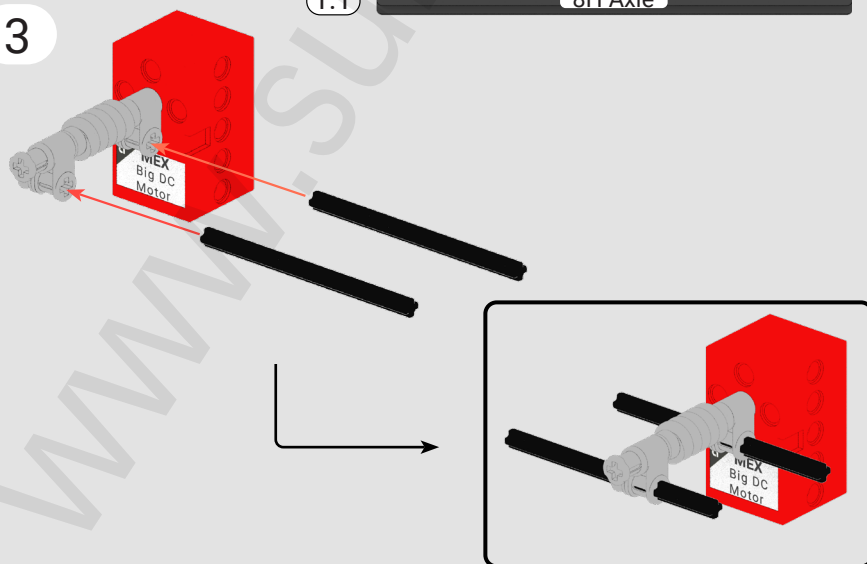
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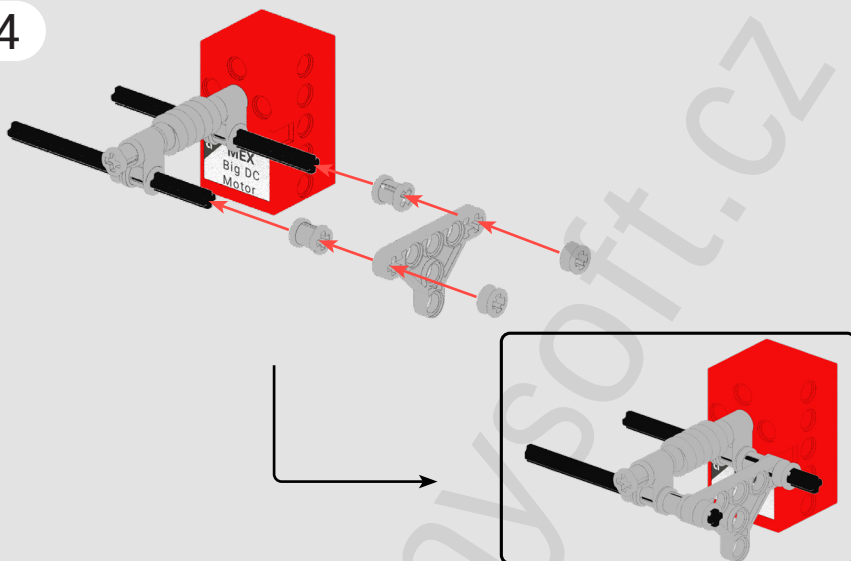
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1:1

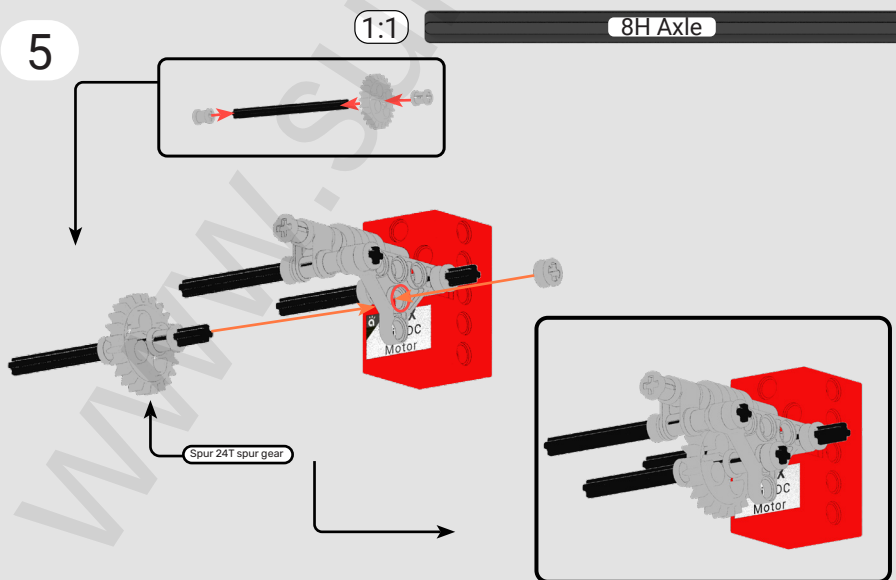
8H Axle



4



5

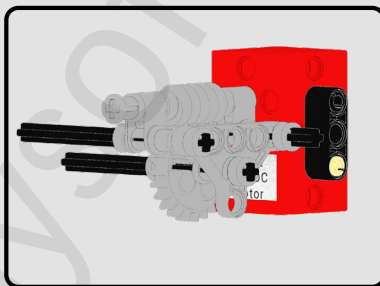
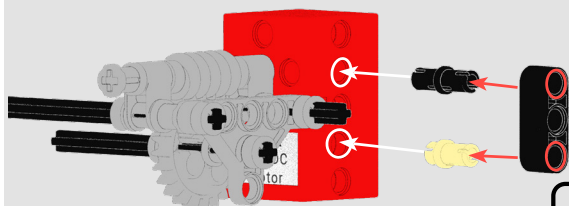


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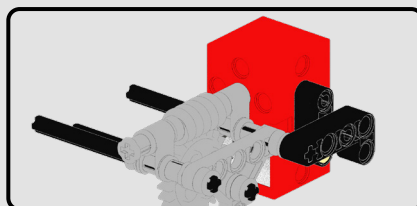
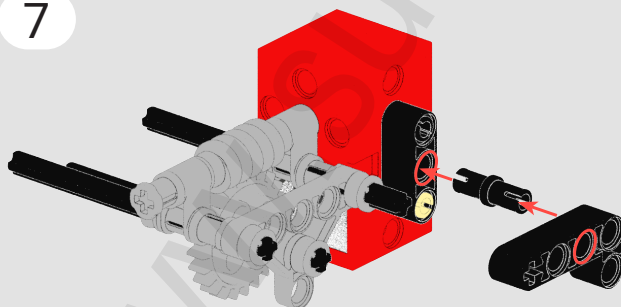
1:1



Short Pin Yellow



7



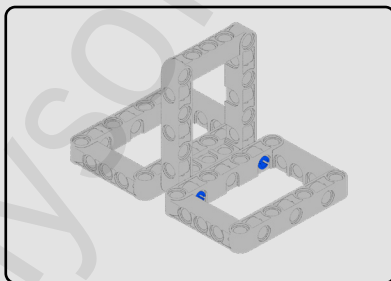
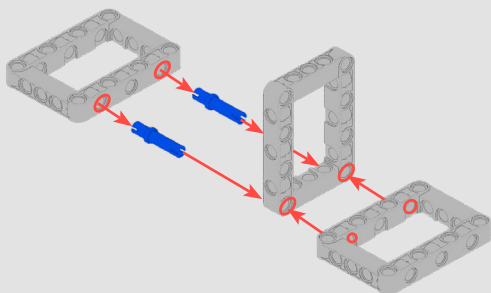
8

Let's make the base structure.

(1:1)



Long Pin Blue

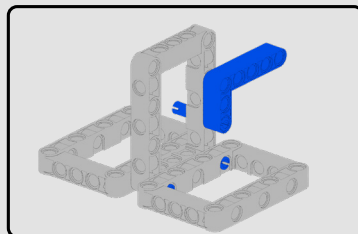
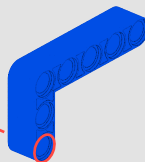
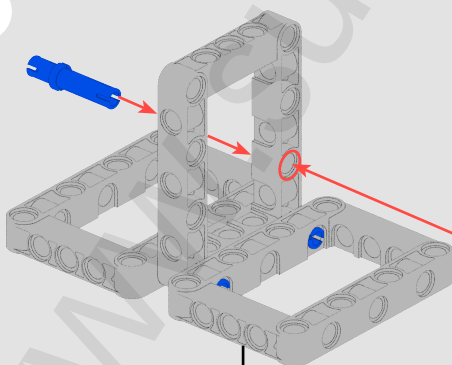


9

(1:1)

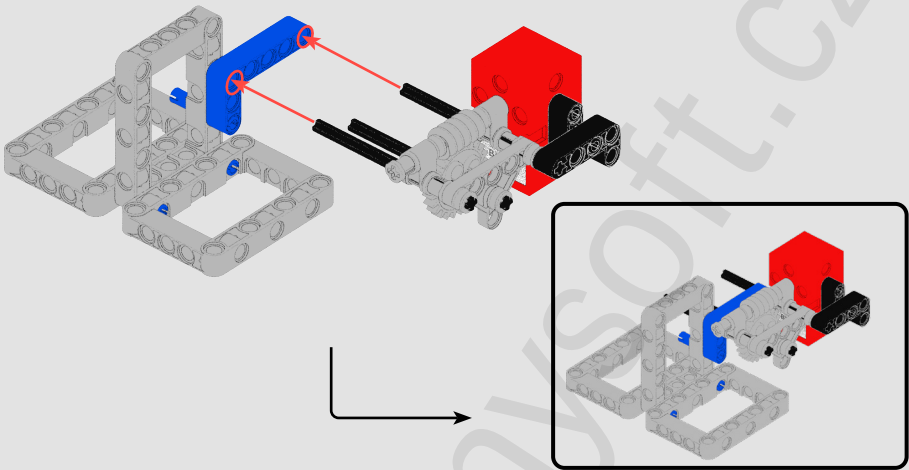


Long Pin Blue

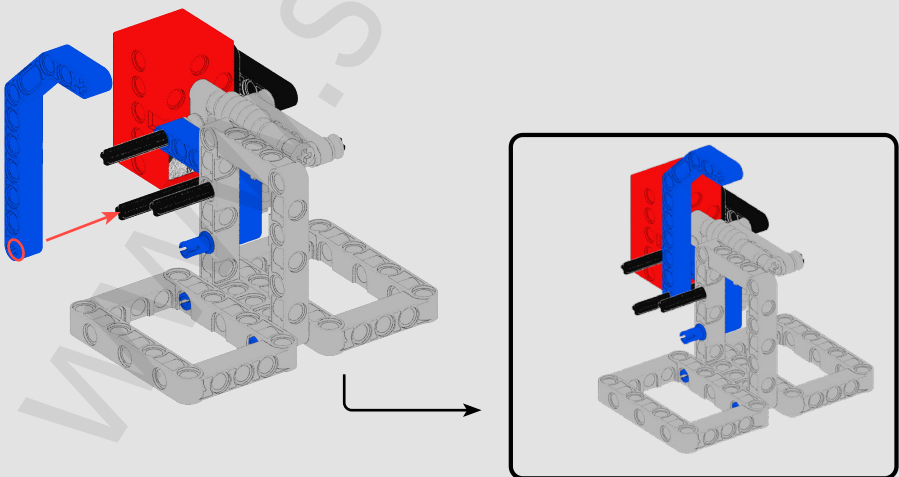


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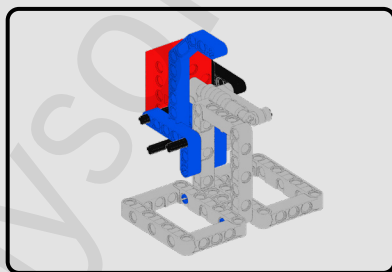
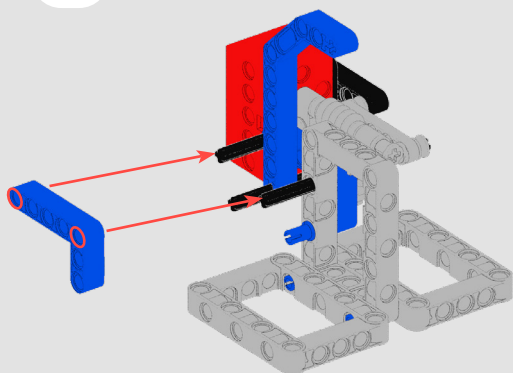
Let's Assemble the base stucture and motor mechanism.



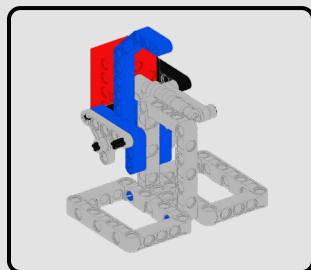
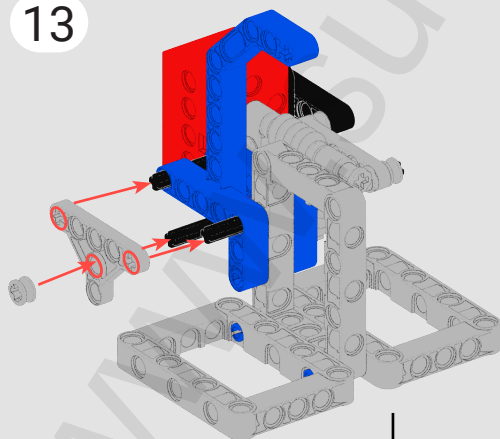
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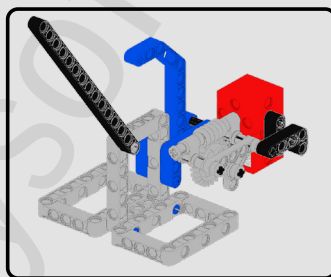
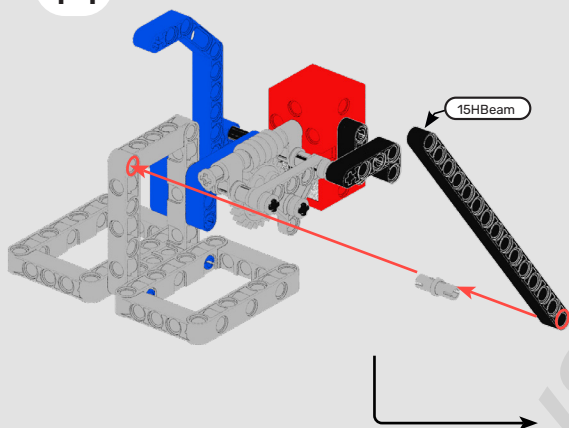
12



13



14

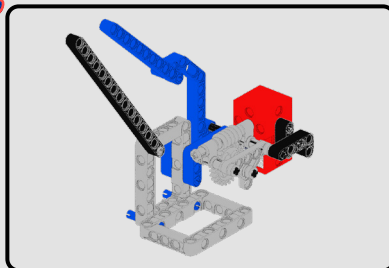
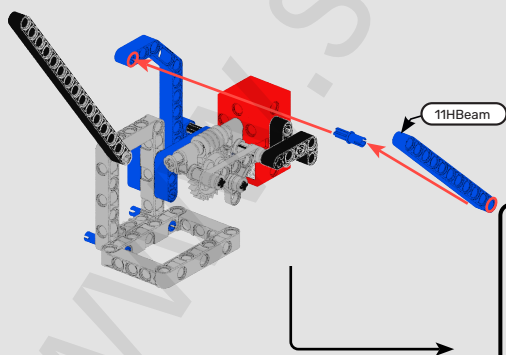


15

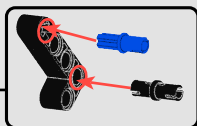
1:1



Medium Axle Pin Blue



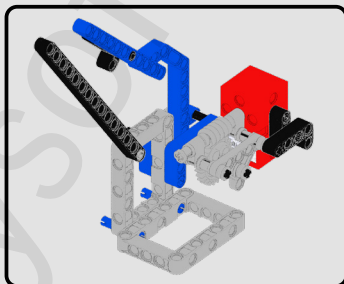
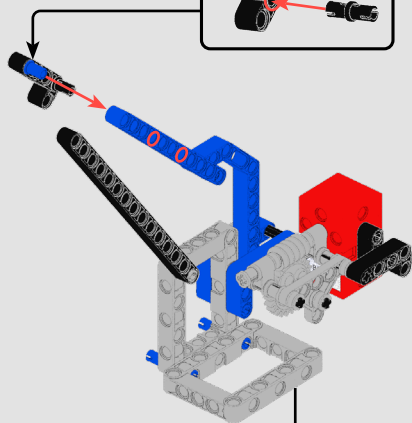
16



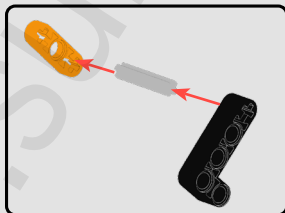
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Medium Axle Pin Blue



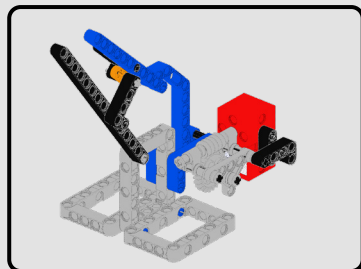
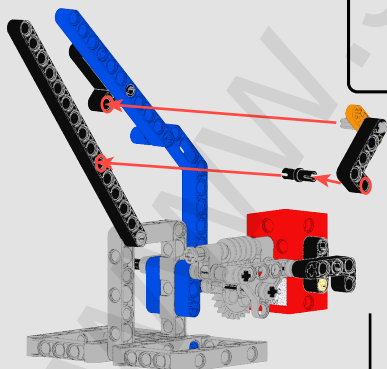
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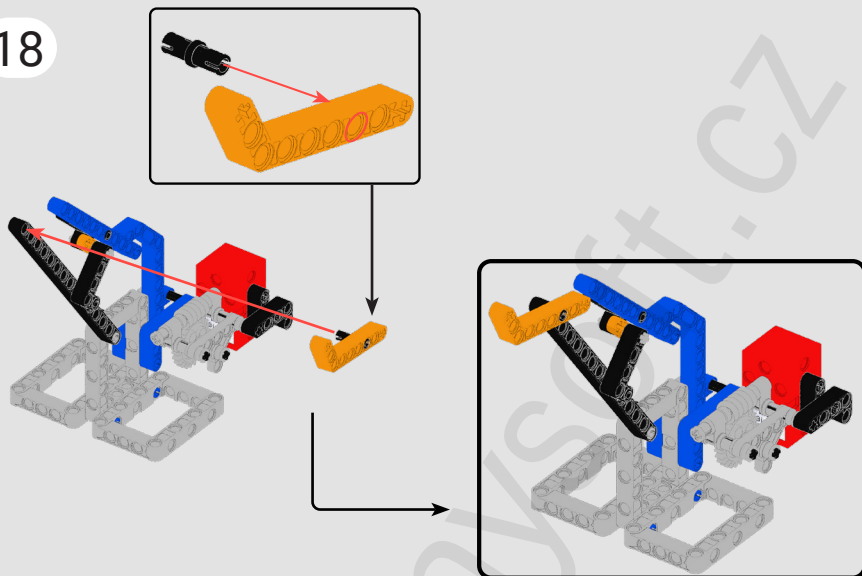
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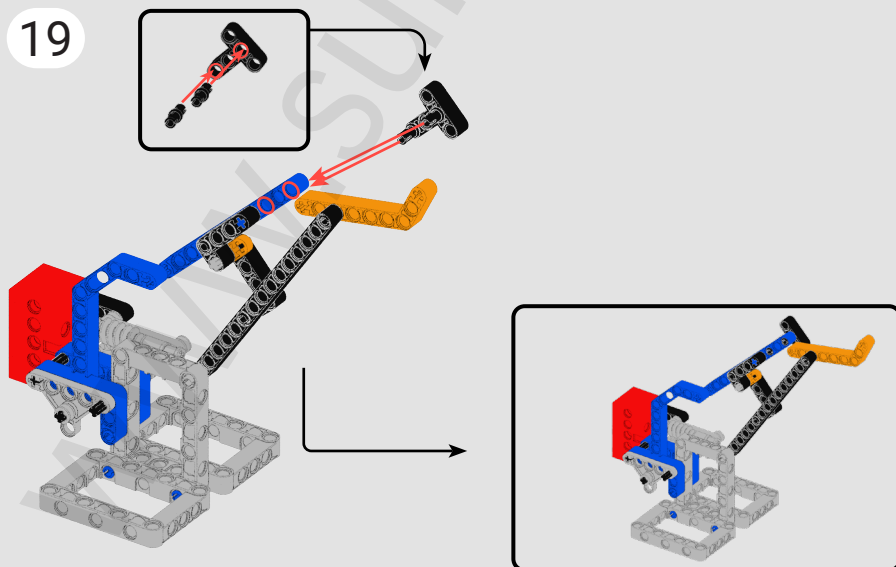
3H Axle



18



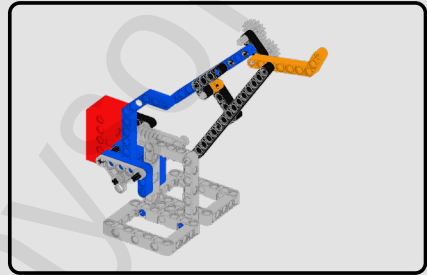
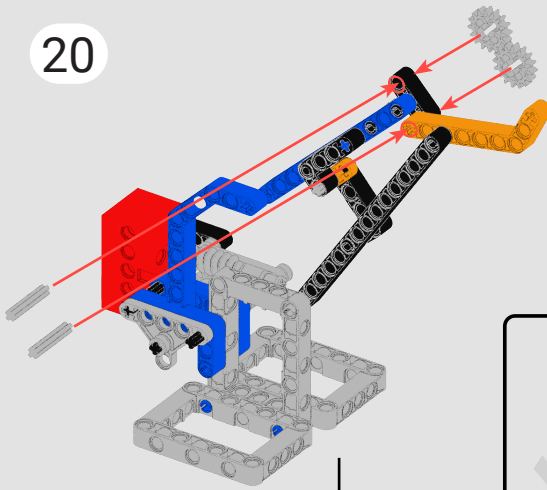
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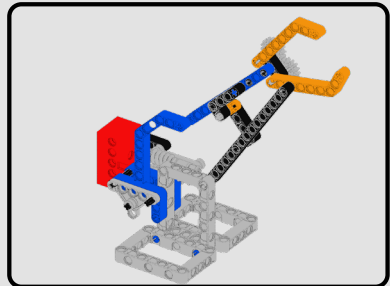
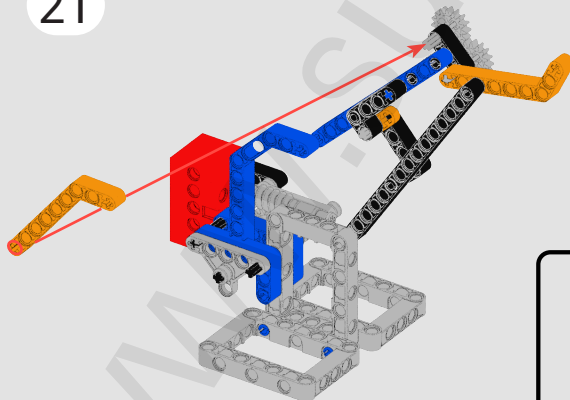
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1:1

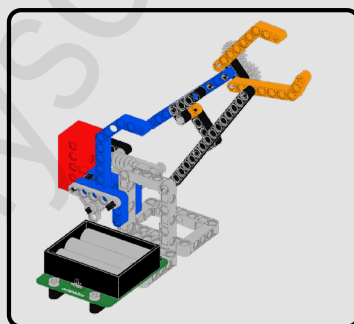
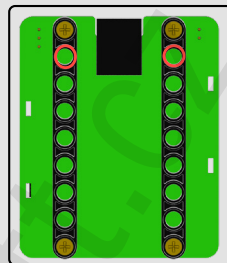
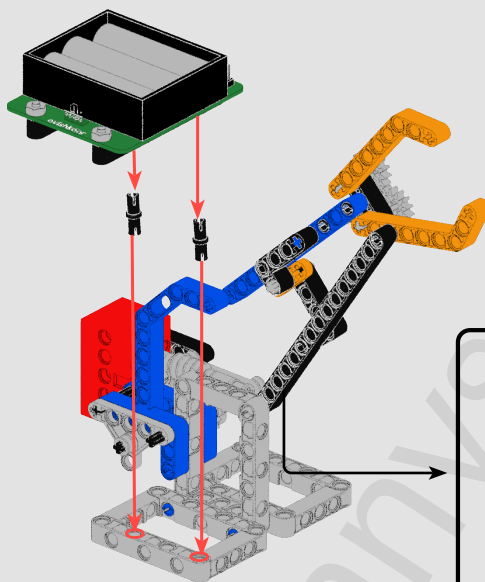
3H Axle



21



22



Congratulations on Completing this Project!

Excited to play with it using the avishkaar mobile app?

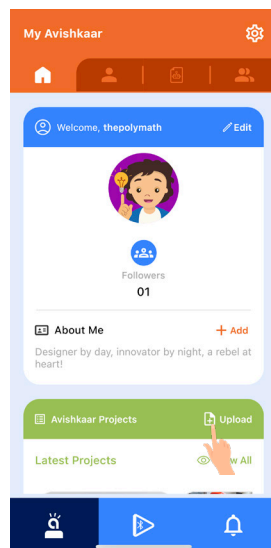
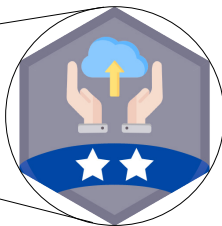
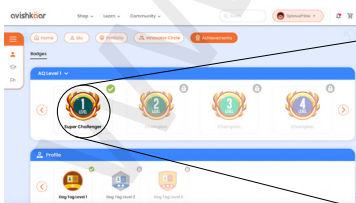
Go to Pg 8 about the detailed instructions on how to download the app and control your bot using it.



Share your Creation with the World and Win the 'Scratch the Surface' Level 2 Badge

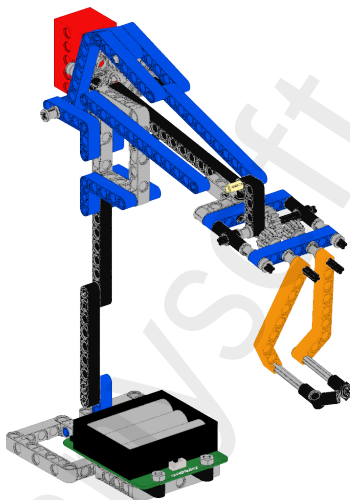
Upload photos or videos of your project using the project section of the Avishkaar App to progress towards winning the 'Scratch the Surface' Level 2 Badge.

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!

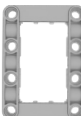


Project 3: MEX Robo Lift

Let's Build!



Things we need

	15H Beam x 1		13H Beam x 1		11H Beam x 1
	9H Beam x 2		7H Beam x 4		7H L-Beam x 5
	1Cx4H L-Beam x 1		2C x 10 H Double Bend Beam x 1		2C x 7 H Single Bend Beam x 2
	4 x 4 Perpendicular L Connector x 1		Open centre x 4		2C x 5H Triangle x 2



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



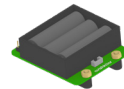
Long
Pin Yellow
x 1



Axle Angle
Connector -180
x 2



Axle Angle
Connector-135
x 2



Avishkaar
MEXCore
x 1

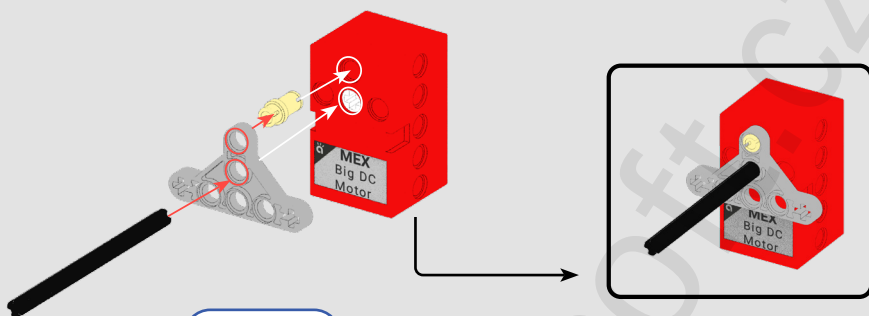


MEX Big DC
Motor
x 1

1

1:1

8H Axle

**Build Tip**

Short Yellow Pins can be a little delicate!

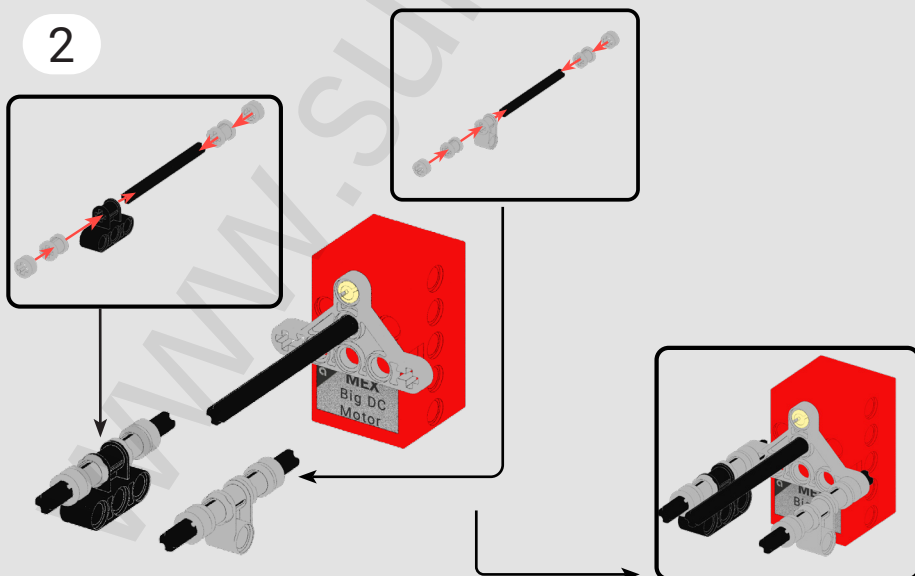
Be careful while using them. They break easily. And they can also be hard to remove - take the help of a parent or an adult to remove them safely.



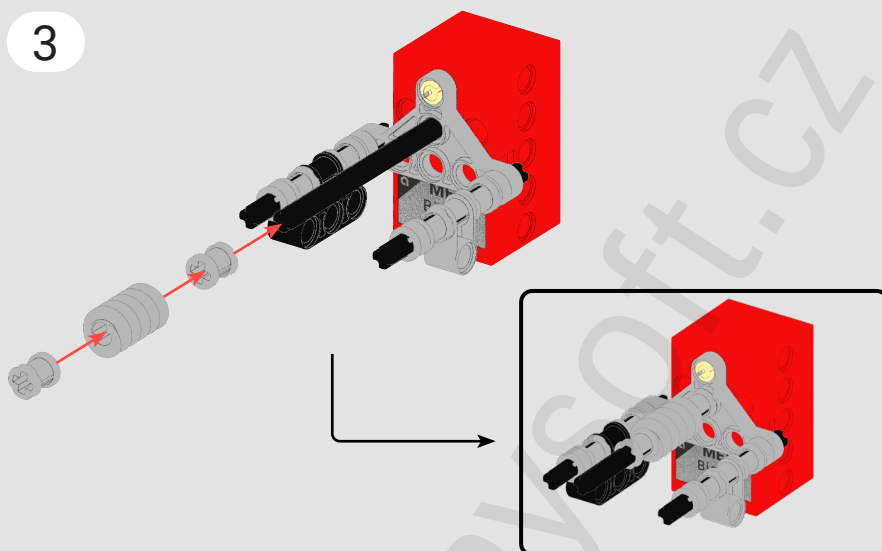
1:1

6H Axle

2



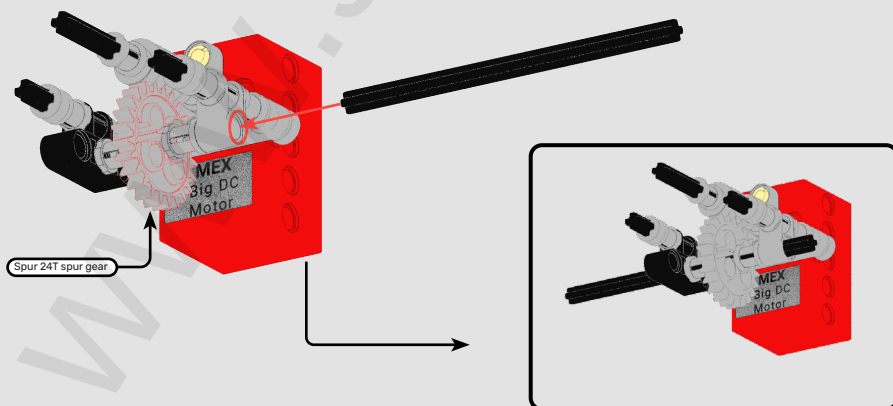
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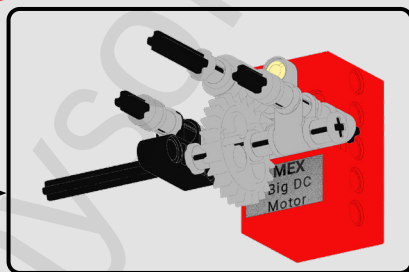
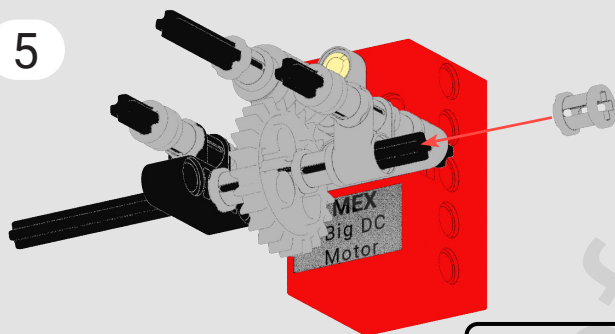
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1:1

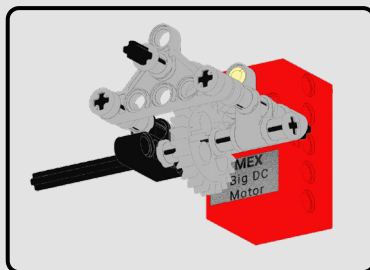
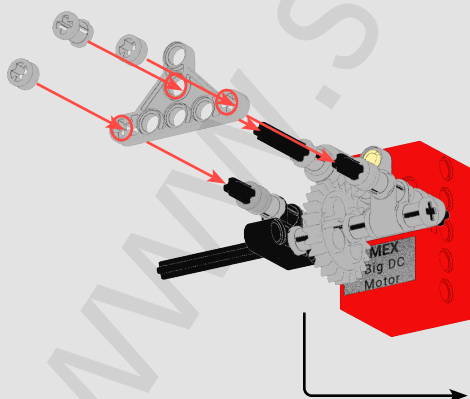
10H Axle



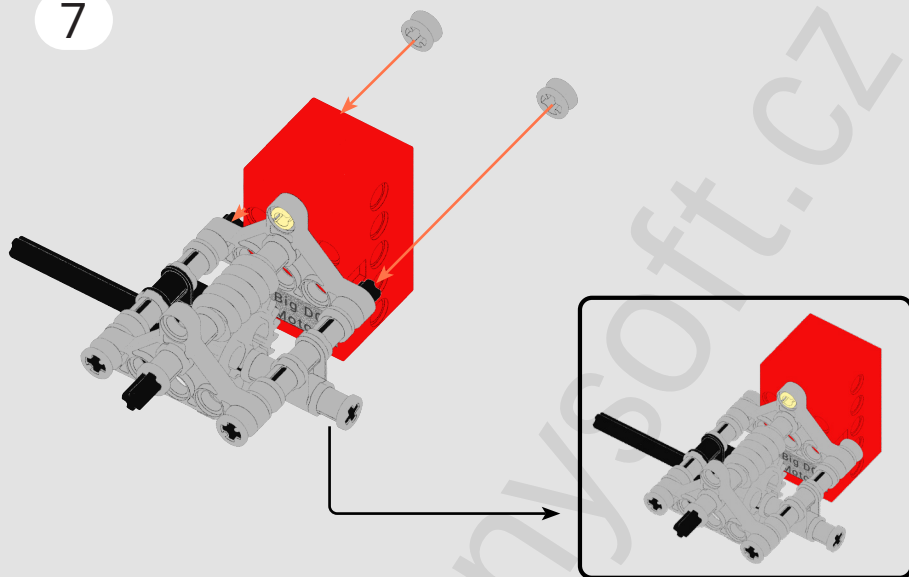
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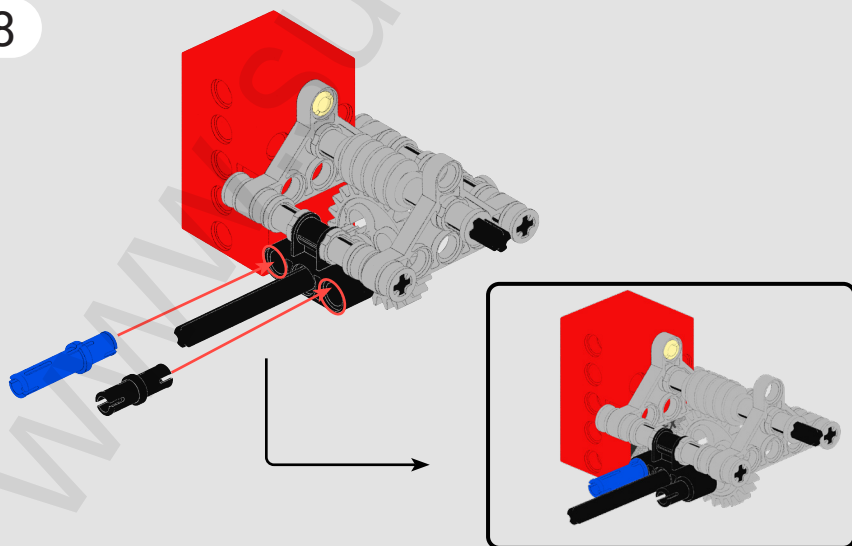
6



7



8



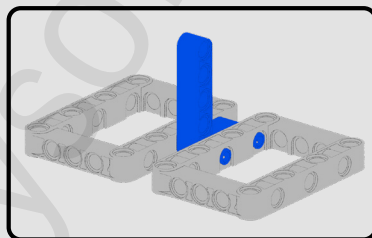
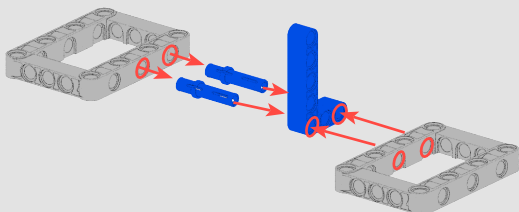
9

Let's make the base structure.

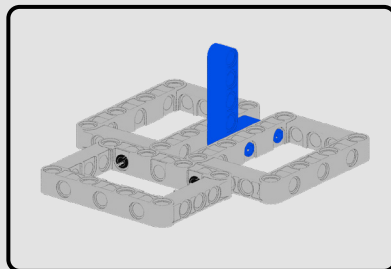
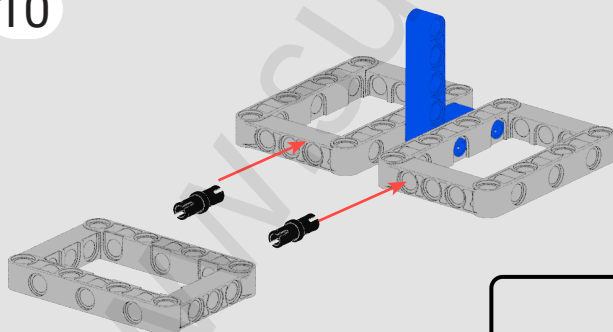
1:1



Long Pin Blue

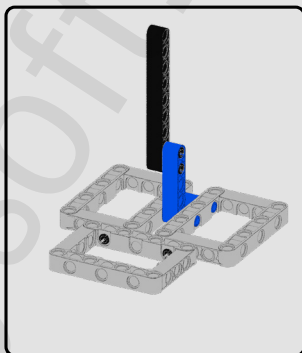
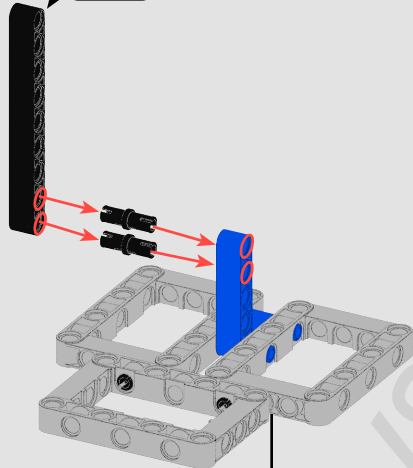


10



11

9H Beam



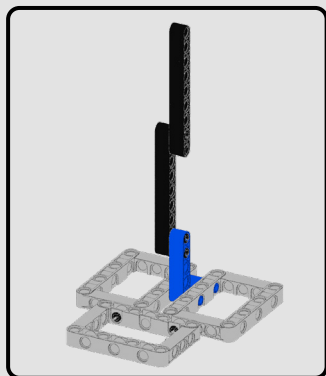
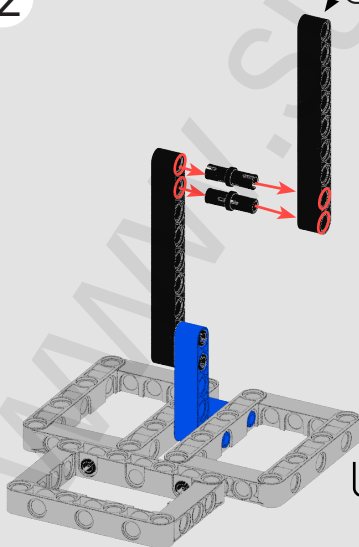
12

9H Beam

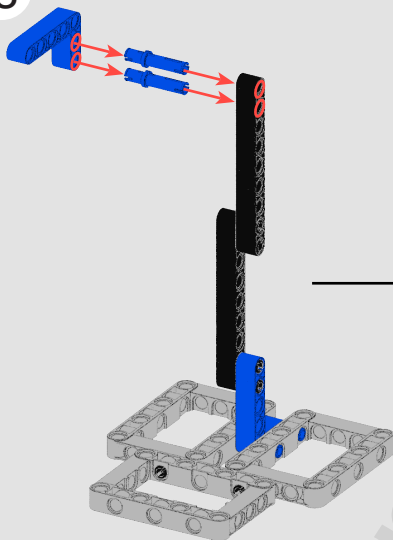
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Long Pin Blue



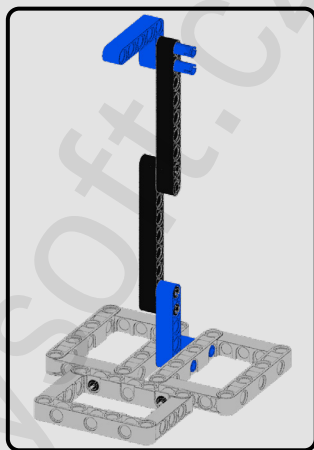
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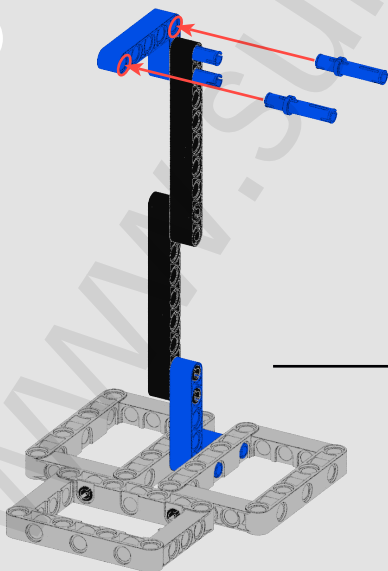
1:1



Long Pin Blue



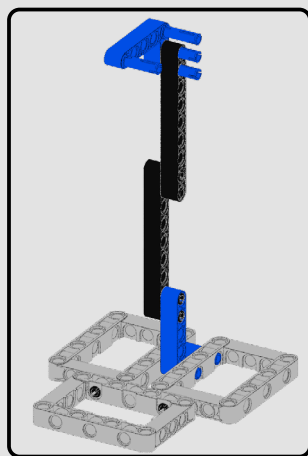
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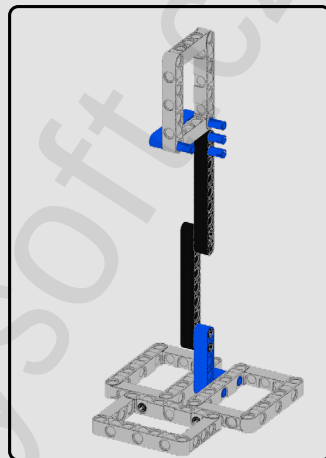
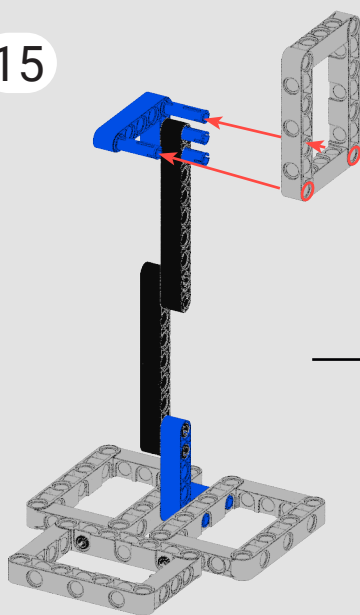
1:1



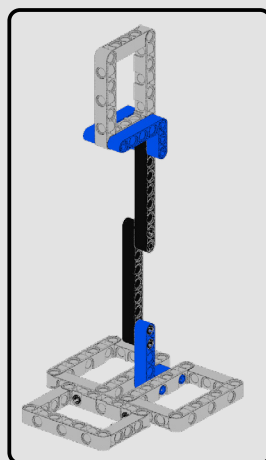
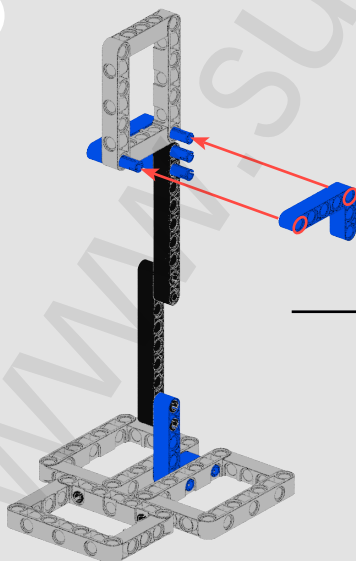
Long Pin Blue



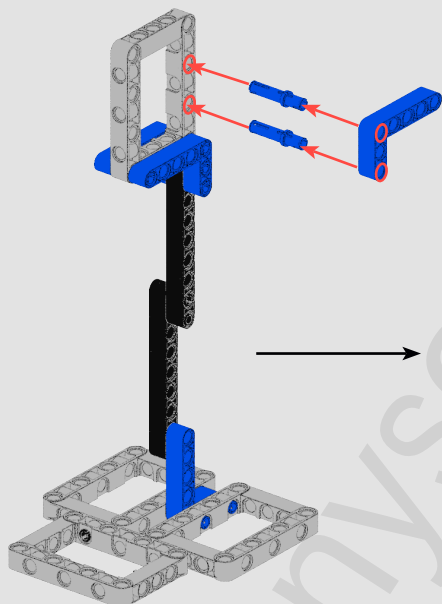
15



16



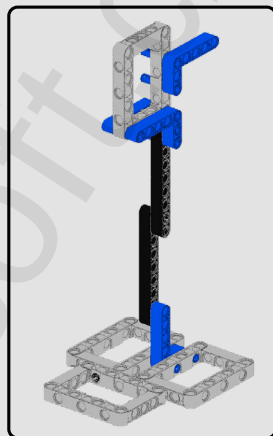
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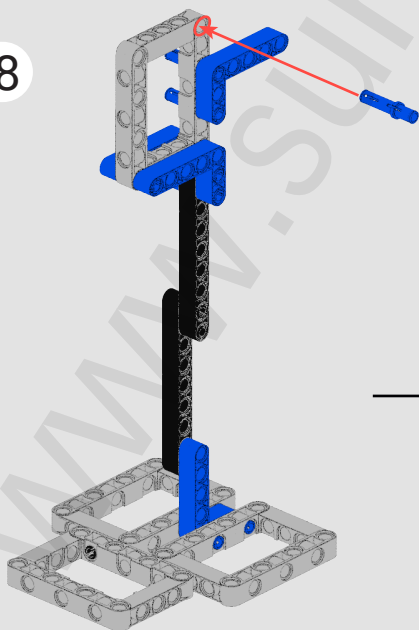
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Long Pin Blue



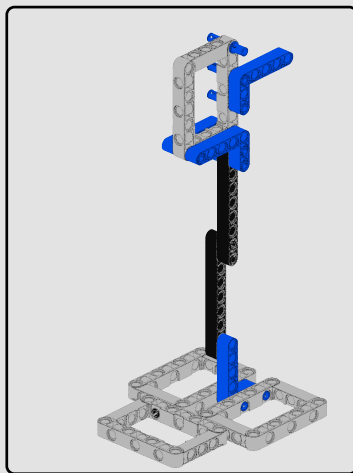
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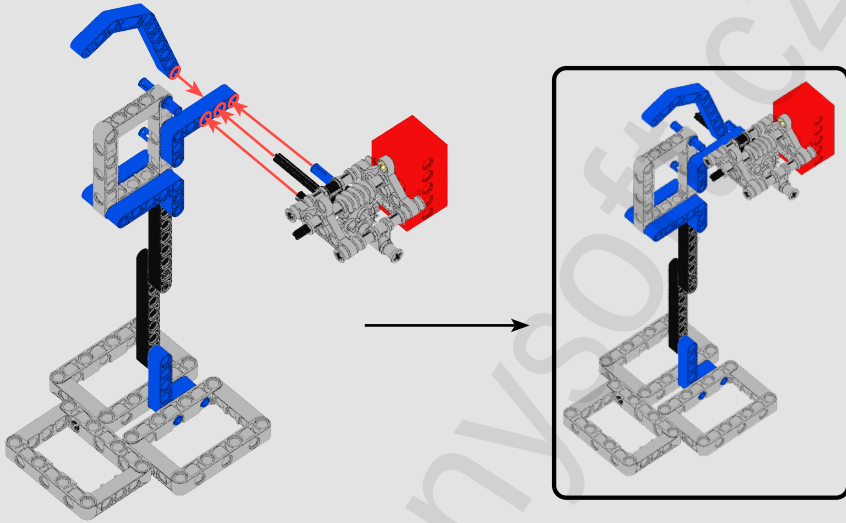


Long Pin Blue

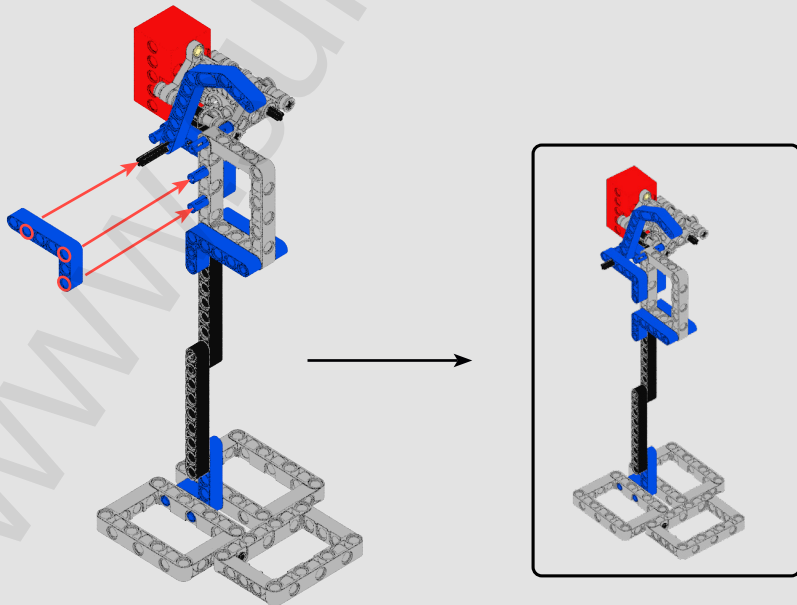


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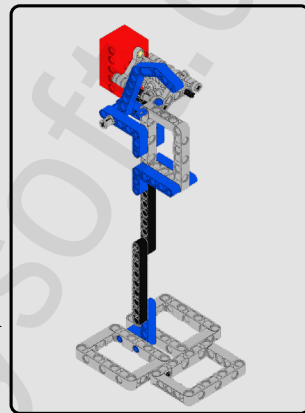
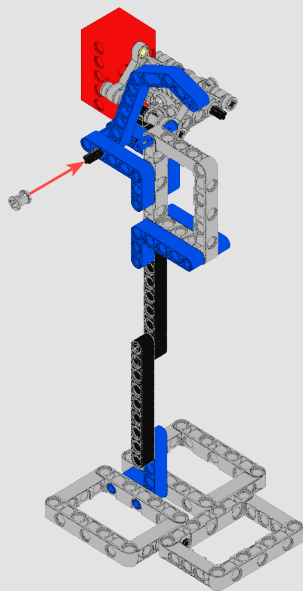
Let's Assemble the base stucture and motor mechanism.



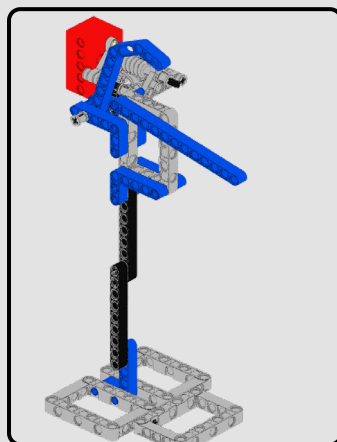
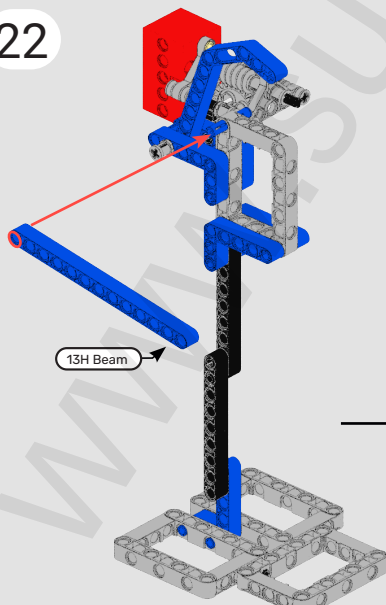
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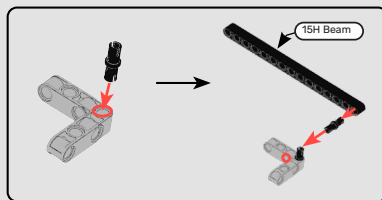
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22



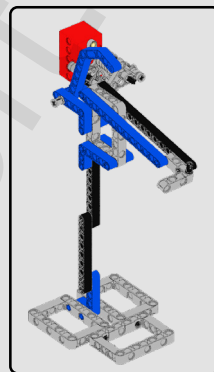
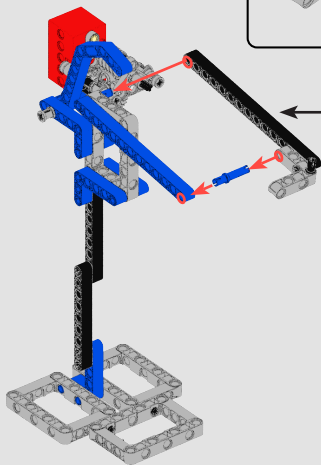
23



1:1



Long Pin Blue

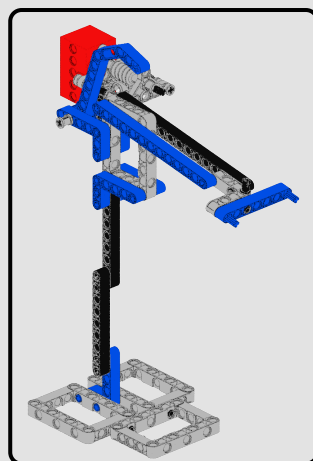
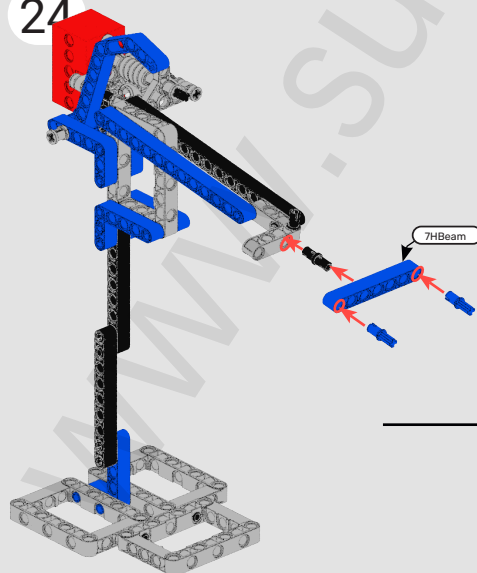


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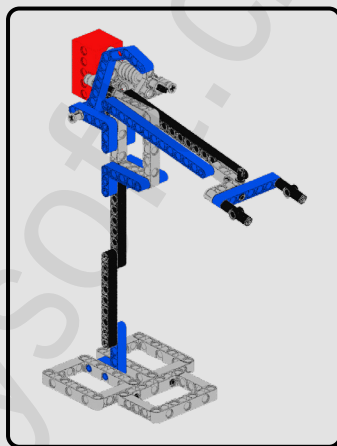
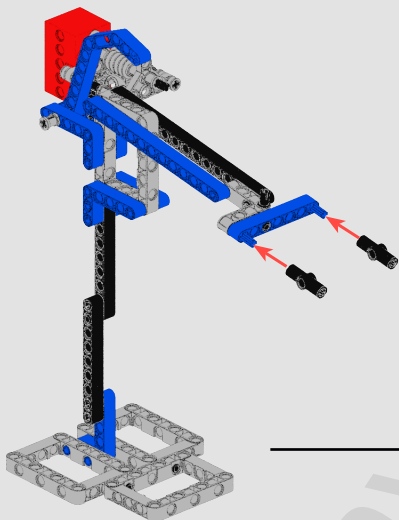
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Medium Axle Pin Blue



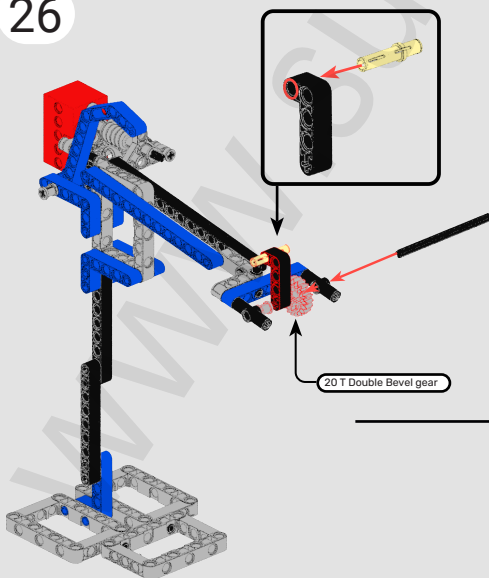
25



1:1

8H Axle

26

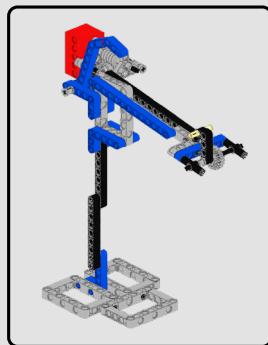


20 T Double Bevel gear

1:1



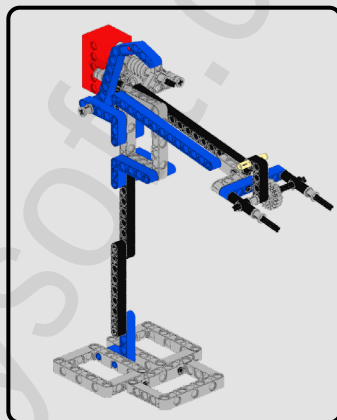
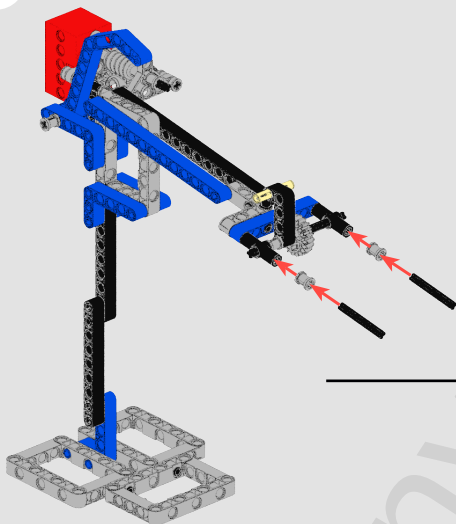
Long Pin Yellow



27

1:1

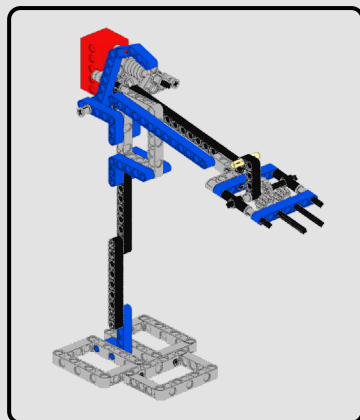
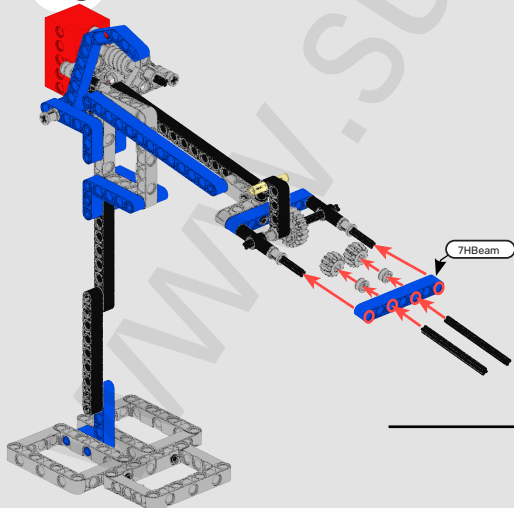
4H Axle



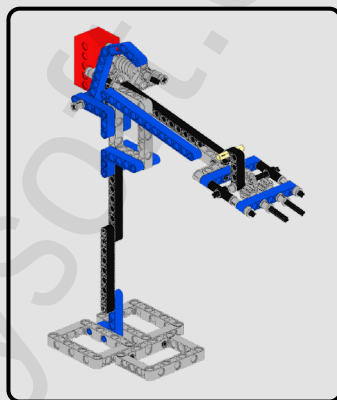
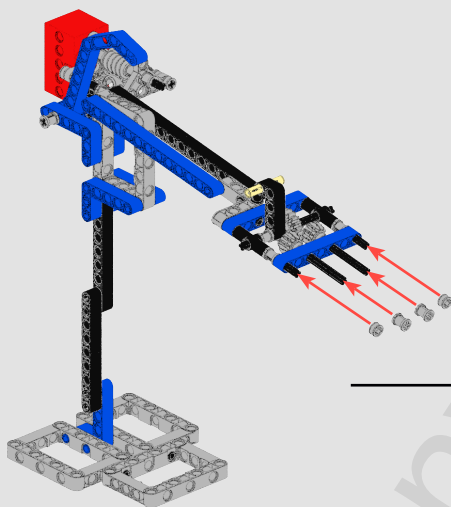
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6H Axle

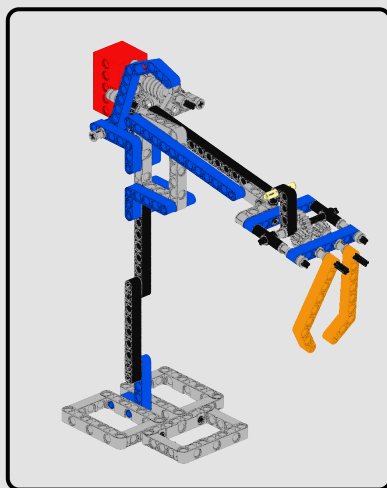
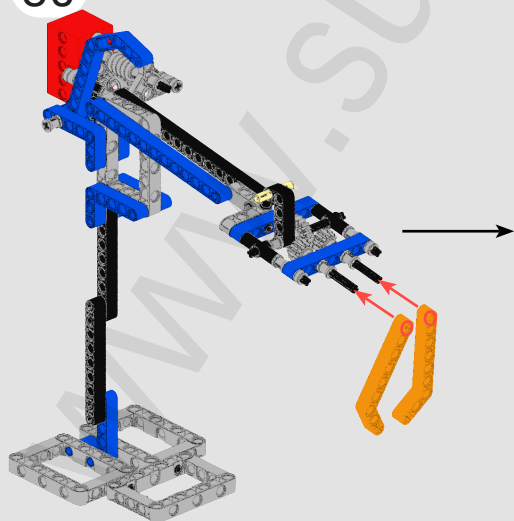
28



29



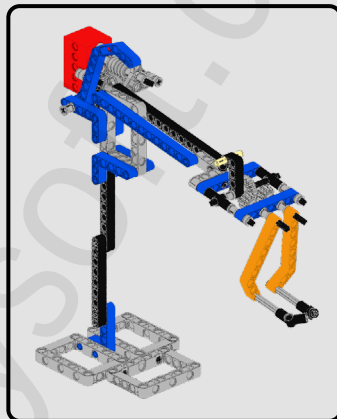
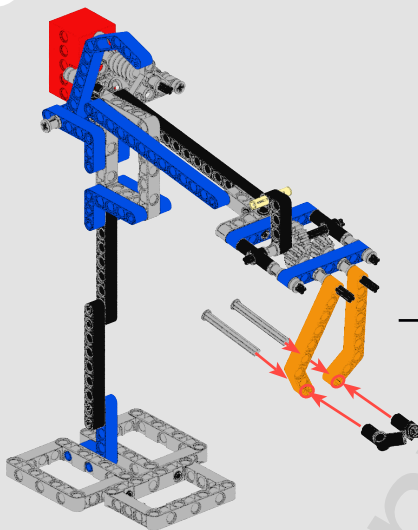
30



31

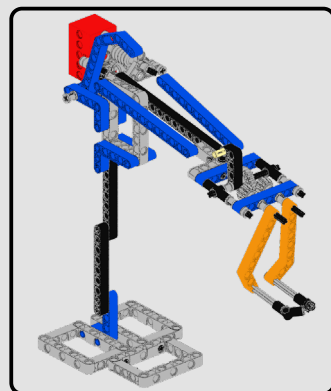
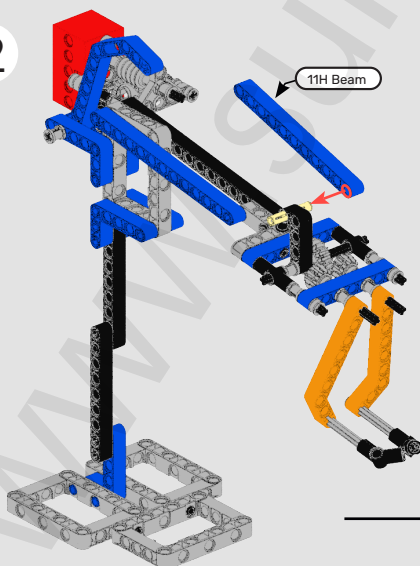
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5H Axle Capped

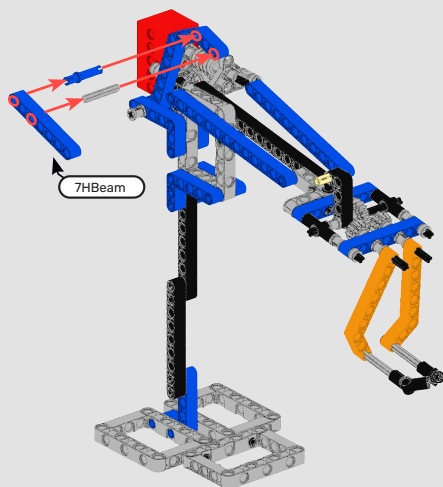


32

11H Beam



33



1:1

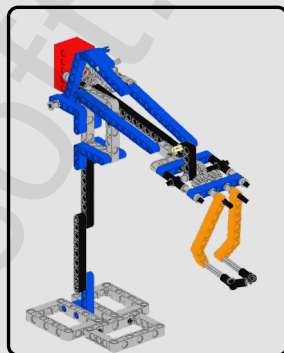


Long Pin Blue

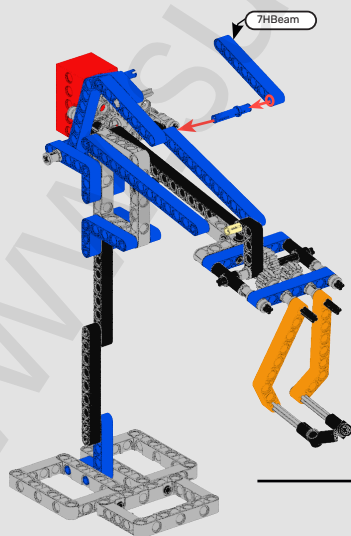
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3H Axle



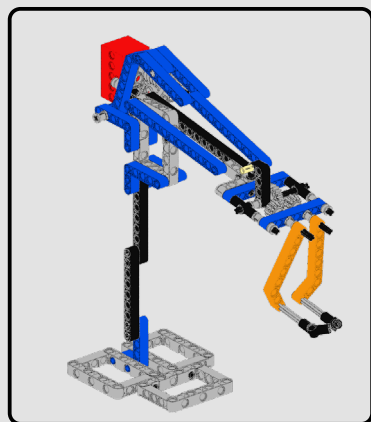
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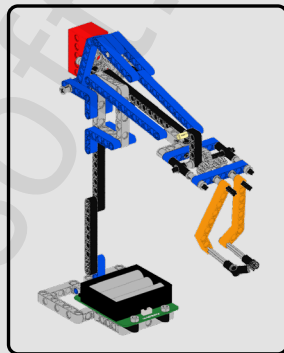
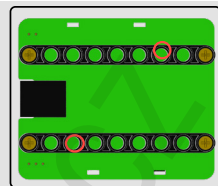
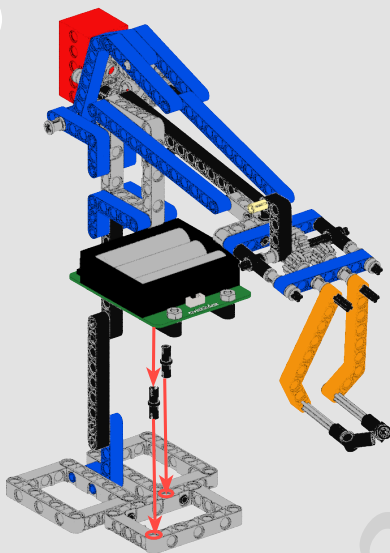
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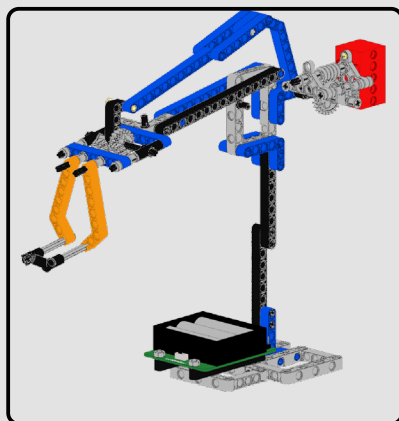
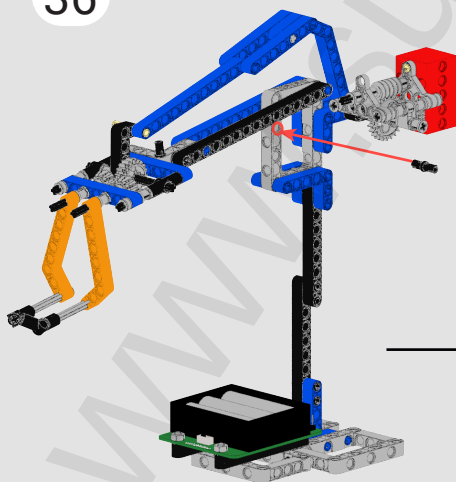
Long Pin Blue



35



36



Congratulations on Completing this Project!

Excited to play with it using the avishkaar mobile app?

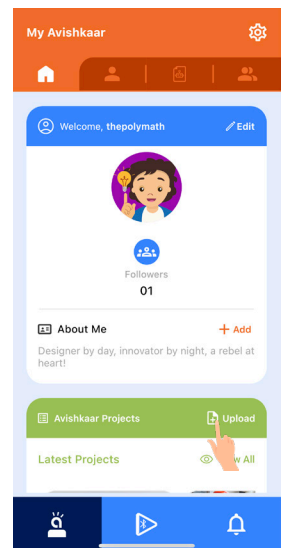
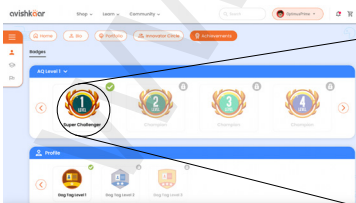
Go to Pg 8 about the detailed instructions on how to download the app and control your bot using it.



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 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

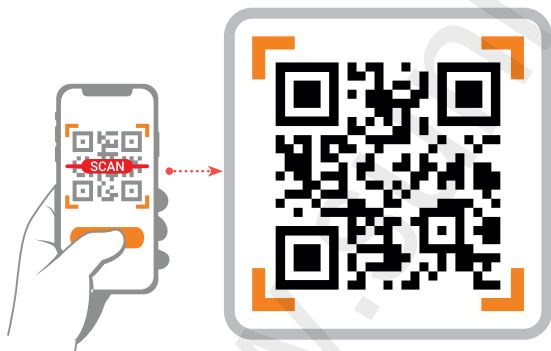


Usability Issues



Hardware Issues

Contact support by scanning the QR Code.



support@avishkaar.cc

+91-8506931515