2-5
YEARS

WHIRL G1

CONSTRUCTION MANUAL

Length	90 - 115 cm / 35 - 45 inch
Max weight	20 kg / 44 lbs
Time to build	2 hours

infento

World's first real constructible rides

WARNING - IMPORTANT NOTICE TO PARENTS

Before you start constructing and use our product, please carefully read the following safety warning and download our manual from our website. This safety warning and manual contains important information relating to your child's safety. It is your responsibility to review this information with your child and make sure they are fully aware of all the warnings before they start riding. Failure to follow instructions and safety precautions can result in serious injury or death.

You can find a digital copy of the manual at the following web address:
www.infentorides.com

PLEASE PRINT OUT THE MANUAL AND KEEP THE MANUAL AND THIS **SAFETY WARNING** IN A SAFE LOCATION FOR FUTURE REFERENCE.

SAFETY SECTION

WARNING! PARENTAL SUPERVISION AND APPROPRIATE USE

Like any moving product, rides made from Infento parts can be dangerous if due care and attention is not paid. To reduce the risk of serious injury: use only under close adult supervision. Parents must review the following warnings and instructions with each Infento ride that is being build. It is your responsibility to review this information and make sure that all riders understand all warnings, cautions, instructions and safety topics, and assure that young riders are able to safely and responsibly use this product. Infento recommends that you periodically review and reinforce the information in this manual with younger riders, and that you inspect and maintain your child's Infento rides to insure their safety.

WARNING! RIDING ON INFENTO RIDES CAN BE A DANGEROUS ACTIVITY

Riding on Infento rides can be a dangerous activity. Certain conditions may cause the equipment to fail without fault of the manufacturer. Rides made from Infento parts can and are intended to move, and it is therefore possible to lose control, fall off and/or get into dangerous situations that no amount of care, instruction or expertise can eliminate. If such things occur you can be seriously injured or die, even when using safety equipment and other precautions. Ride at your own risk and use common sense.

WARNING! NO LIABILITY FOR CONSTRUCTED RIDES THAT DIFFER FROM OUR MANUALS

The rides that you can find in our manuals have been tested by official independent testing agencies. We will not be responsible or liable, directly or indirectly, in any way for any loss or damage of any kind incurred as a result of your decision to build constructions or rides that differ from the official rides that we show in our manuals.

ASSEMBLY – SUBSECTION

WARNING! OUR KITS CONTAIN SMALL PARTS

This package contains small parts which, before assembly, present a choking hazard to children under the age of three. Care should be taken during unpacking and assembly to insure that all small parts and plastic bags are accounted for and kept out of the reach of children.

WARNING! TO AVOID SERIOUS INJURY:

1. Toys are to be assembled by an adult using Infento manuals.
2. All fasteners (bolts and nuts) should be fully tightened.
3. It is the responsibility of the adult who assembles this bicycle to properly install all parts included in the factory sealed shipping carton and to make the adjustments to the functional parts such as handle bar and seat and chain when necessary.

USE – SUBSECTION

WARNING! TO AVOID SERIOUS INJURY:

1. Continuous adult supervision is required.
2. Only ride constructed rides that have been built according to the instructions given in the official Infento manual.
3. Never exceed the maximum weight. You can find the maximum weight for every specific ride in our manual.
4. Always check the manual to see the minimum and maximum age as well as the minimum and maximum length for every specific ride.
5. Always wear safety equipment such as a helmet, knee pads and elbow pads. We recommend riders always wear a properly fitted helmet that complies with local or national guidelines or laws. Keep chinstrap of helmet securely buckled.
6. Always wear closed toed shoes (lace-up shoes with rubber soles), never ride barefooted or in sandals, and keep shoe laces tied and out of the way of the wheels.
7. Avoid streets and surfaces with water, sand, gravel, dirt, leaves, and other debris. Wet weather impairs traction, braking and visibility.
8. Excessive exposure to sunlight, temperatures below 0 degrees Celsius, water, sand, gravel, dirt, leaves, and other debris can damage, shrink, expand or weaken parts. Keep your ride in a dry environment with proper heating.
9. Avoid sharp bumps, drainage grates and sudden surface changes. Your Infento ride may suddenly stop.
10. Ride on smooth, paved surfaces away from motor vehicles. Wet, slick or uneven and rough surfaces may impair traction and contribute to possible accidents.
11. Never risk damaging surfaces, such as carpet or flooring, by use of an Infento ride indoors.
12. Never use near motor vehicles, streets, roadways, alleys, swimming pool areas, hills, steps, sloped driveways, inclines and public highways.
13. Watch out for pedestrians, skaters, skateboards, scooters, bikes, children or animals who may enter your path, and respect the rights and property of others.
14. Avoid excessive speed associated with downhill rides.
15. Do not use at night or in periods with reduced visibility.
16. Before every use, please make sure that the complete ride and all joints have been assembled tightly, as with use, joints may wear out.
17. Before using your Infento ride, please check that the screws are tightened securely.
18. It's your own responsibility if you modify the product other than manufacturer's instructions.
19. Maintain a hold on the handlebars at all times.
20. Brake will get hot from continuous use. Do not touch after braking.
21. Periodically check hardware and tighten if necessary. Replace worn or broken parts immediately.
22. Skill is required to avoid falls or collision causing injury to the user and third parties.
23. Check operation of breaks every time before bicycle is ridden.
24. Check local laws before you start with riding.
25. Never tow wagons, other vehicles, or children on skates or skateboards.
26. Make certain that anyone who uses an Infento ride has been fully instructed in its operation.
27. Instruct your child on how to use the breaks.
28. Do not perform stunts.
29. Never use headphones or a cell phone when riding.
30. Only one rider at a time on an Infento ride.
31. Do not allow children to stand on the product at any time.

FAILURE TO USE COMMON SENSE AND HEED THE ABOVE WARNINGS INCREASES RISK OF SERIOUS INJURY. USE WITH APPROPRIATE CAUTION AND SERIOUS ATTENTION TO SAFE OPERATION.

SAFETY SECTION

OUR KITS CONTAIN SMALL PARTS

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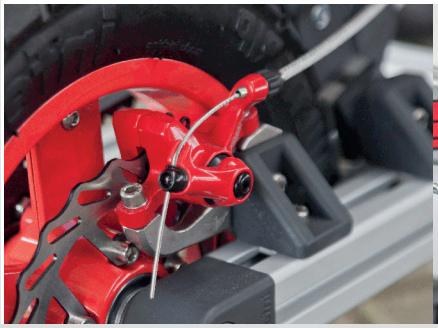
QUESTIONS? HELP NEEDED?

You can email us at:
support@infentorides.com
and our team will assist you as soon as possible.



MAINTENANCE | INSTRUCTION

1. Oil or grease moving parts periodically.
2. Check nuts and bolts often and tighten if necessary.
3. Any parts showing evidence or wear should be replaced immediately.
4. Follow closely the assembly instructions pertaining to the proper adjustments of parts
5. Periodically check the brake system for proper function
6. Periodically check the steering mechanism for proper function
7. Check the air pressure in the tires to be the amount specified in the manual
8. Periodically check the bicycle's tooth belt to be sure that it is not too lose which could allow the chain to slip off the sprockets.

RECOMMENDED TOOLS

4 x Allen key
3, 4, 5, 6 mm

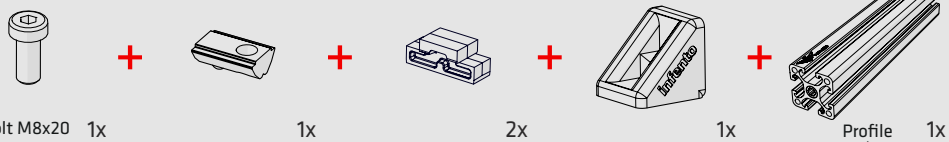
1 x Tapeline

1 x T-handle
for Allen key

5 x Wrench
10, 13, 14, 15, 19 mm

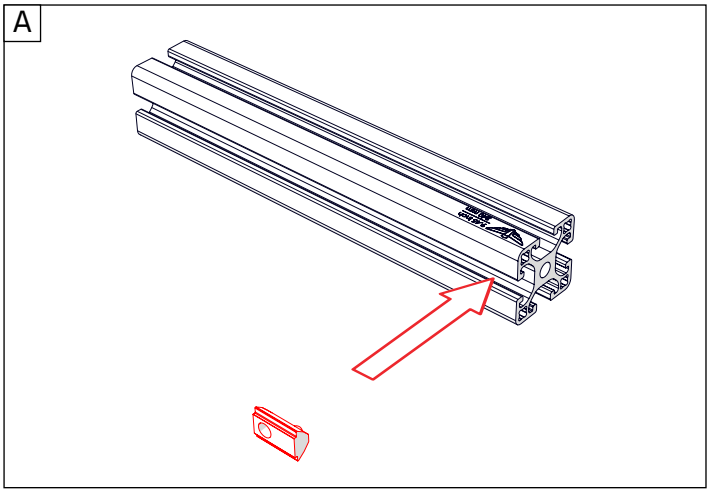
1

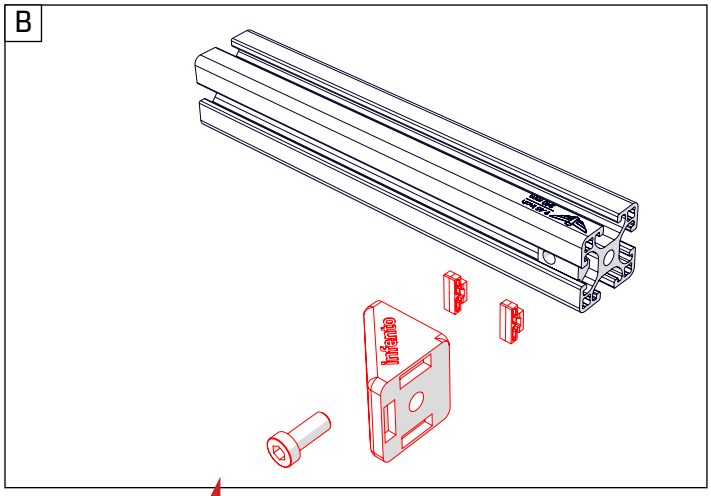
ride ***WHIRL***

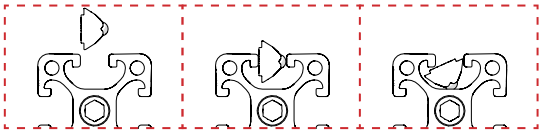


Bolt M8x20 (low head) 1x + Profile nut short 1x + T-Positioning block 2x + L-joint 1x + Profile 9.45 inch | 240 mm 1x

First, get all required materials stated here and then follow the instructions.







Tighten the bolts with full force. Ensure that you hold the long side of the Allen key in your hand as this enables you to exert greater force.

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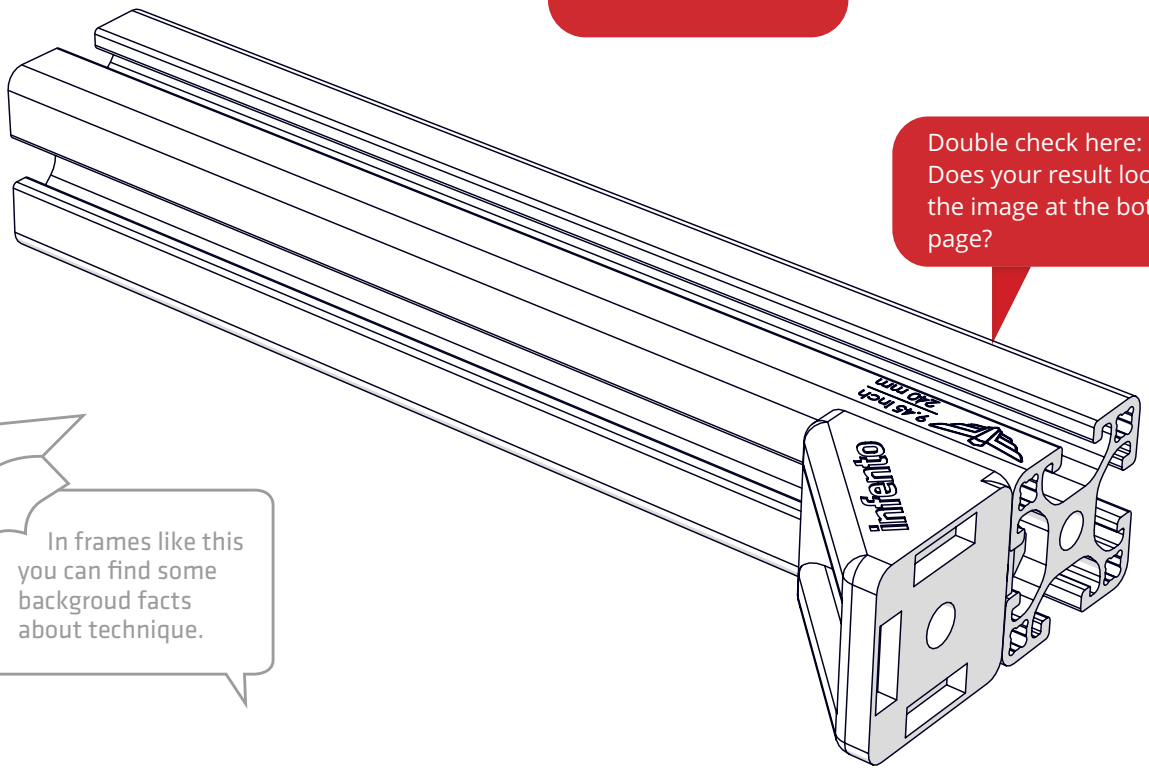
Does your result looks exactly like the image at the bottom of the page?

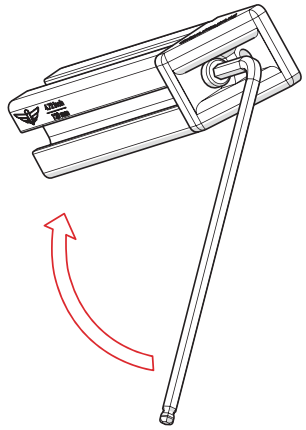


In frames like this you can find some backgroud facts about technique.

TOP 3 REQUIREMENTS MAKING A GREAT INFENTO EXPERIENCE:

1

Tighten bolts with full force (15Nm) to prevent them from coming loose.



2

Constructing and playing always under supervision of an adult.

3

Check frequently if all parts are still firmly tightened and function properly.

2

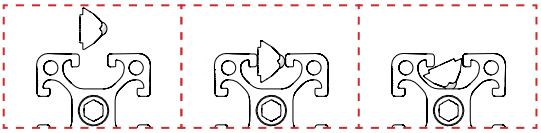
ride ***WHIRL***

Bolt M8x20 (low head) 1x

Profile nut short 1x

T-Positioning block 2x

L-joint 1x



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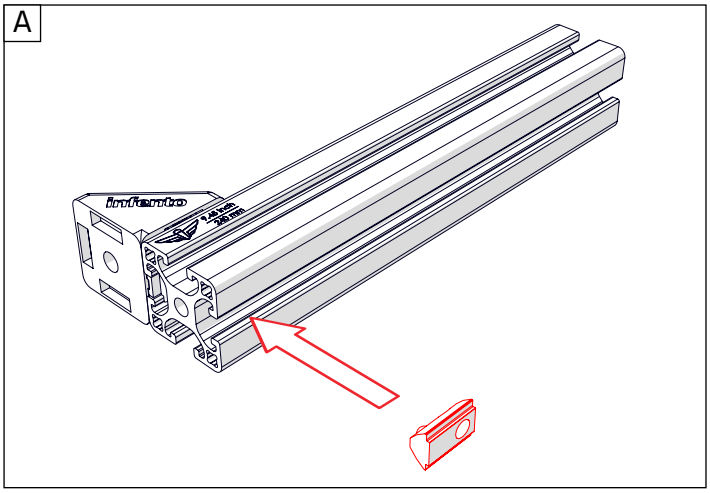

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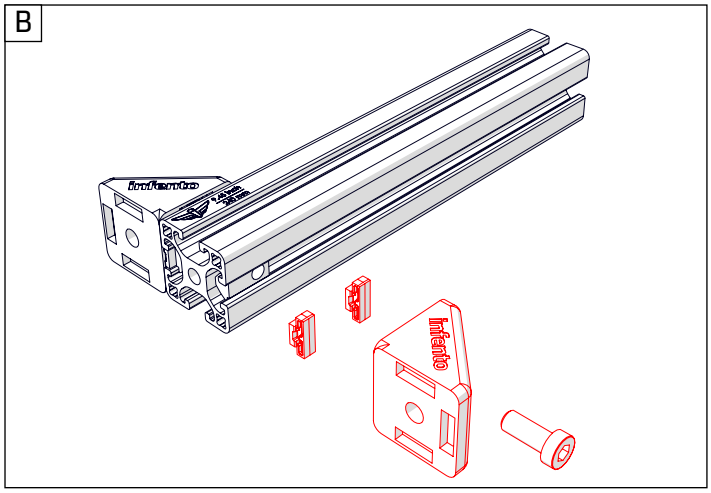

Tighten the bolts with full force. Ensure that you hold the long side of the Allen key in your hand as this enables you to exert greater force.

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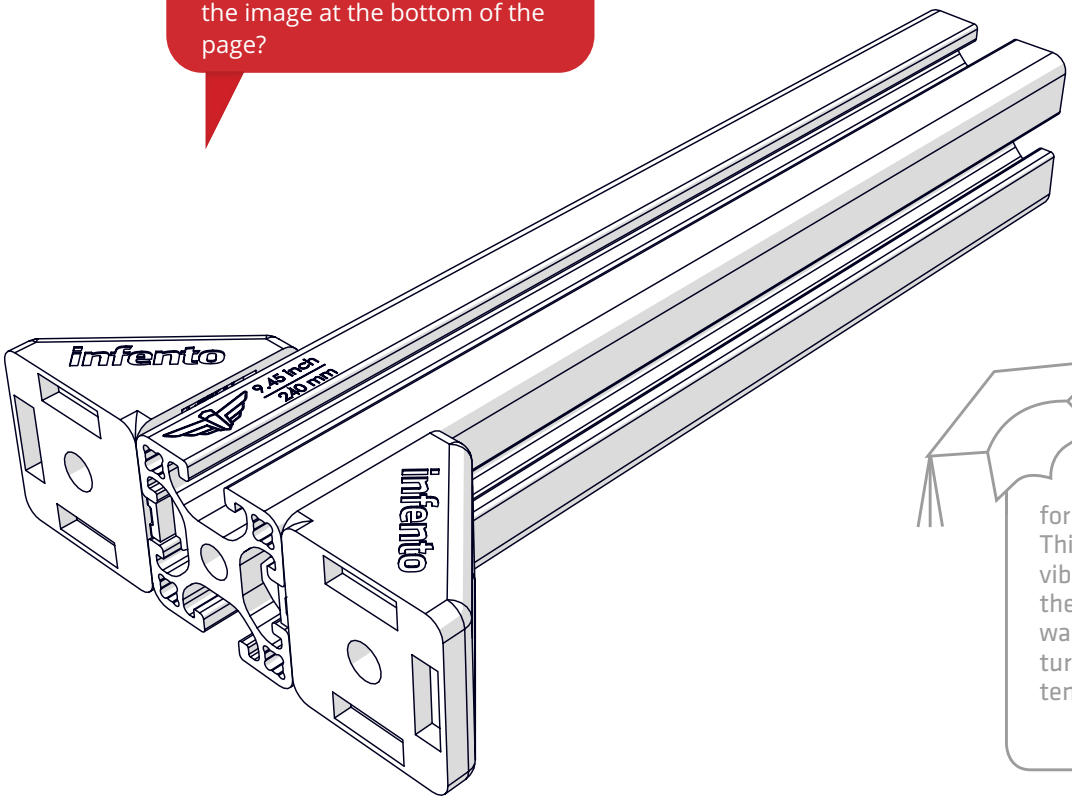
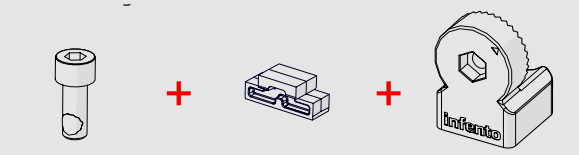


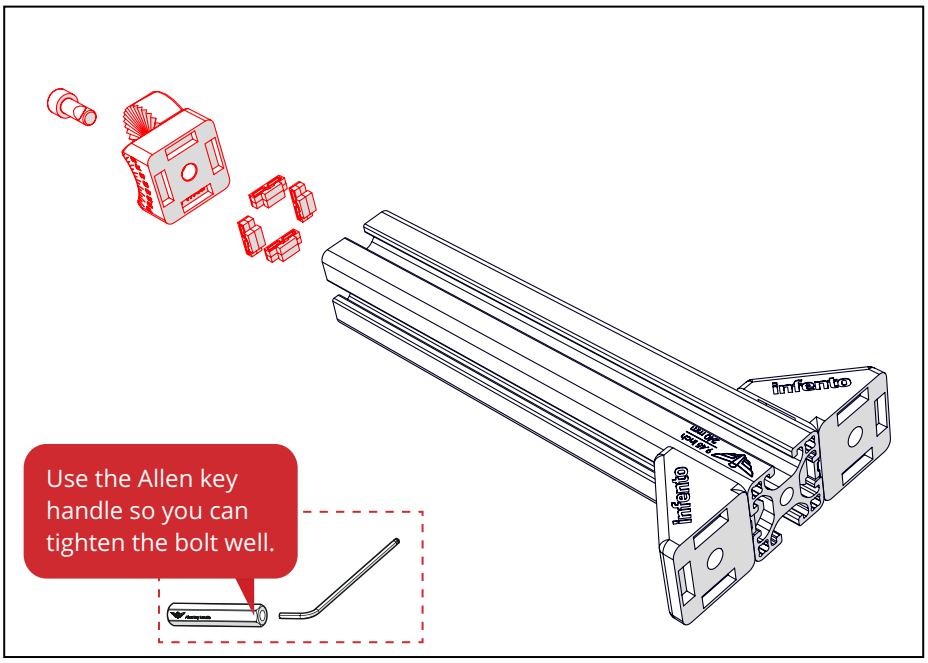
Most nuts that you use for Infento are self-locking. This means that they cannot vibrate loose. On the inside of the bolt you will see a plastic washer that ensures it cannot turn freely, even if there is no tension on the bolt.

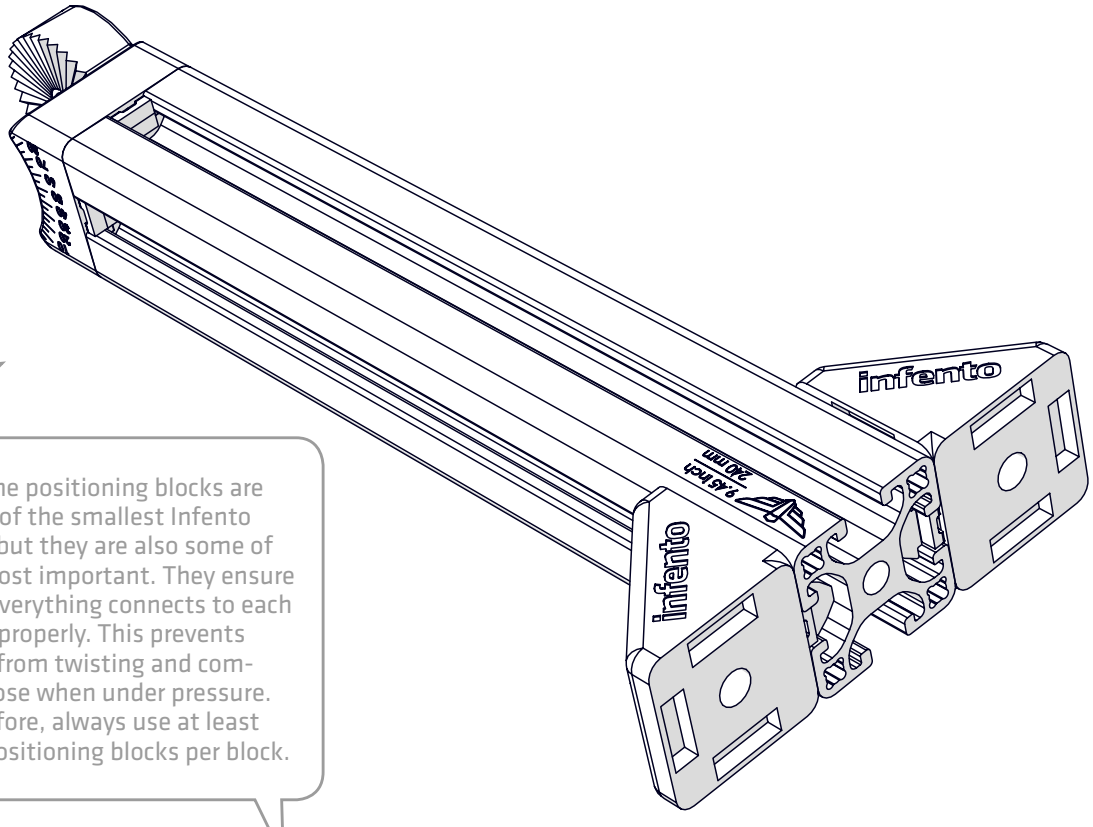


1x Bolt M8x20 nylock

4x T-Positioning block

1x Multi angle joint





The positioning blocks are some of the smallest Infento parts but they are also some of the most important. They ensure that everything connects to each other properly. This prevents parts from twisting and coming loose when under pressure. Therefore, always use at least two positioning blocks per block.

Bolt M8x25 (low head) 2x

+

Positioning block 4x

+

Locknut M8 2x

+

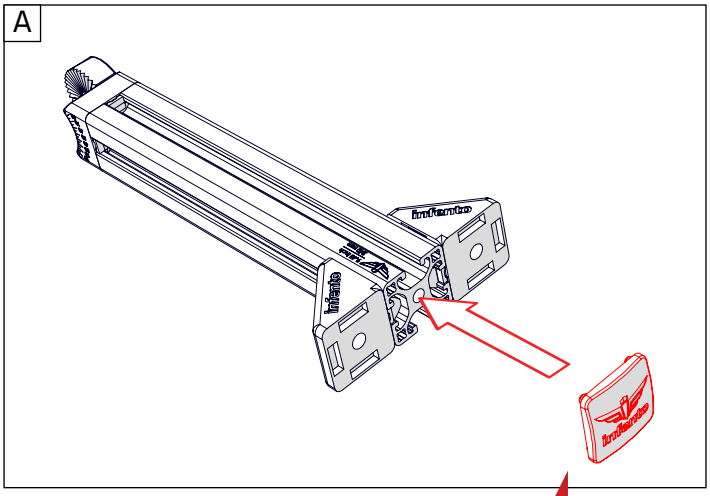
Multi angle joint 2x

+

Protect cap 1x

Use the Allen key handle so you can tighten the bolt well.

A



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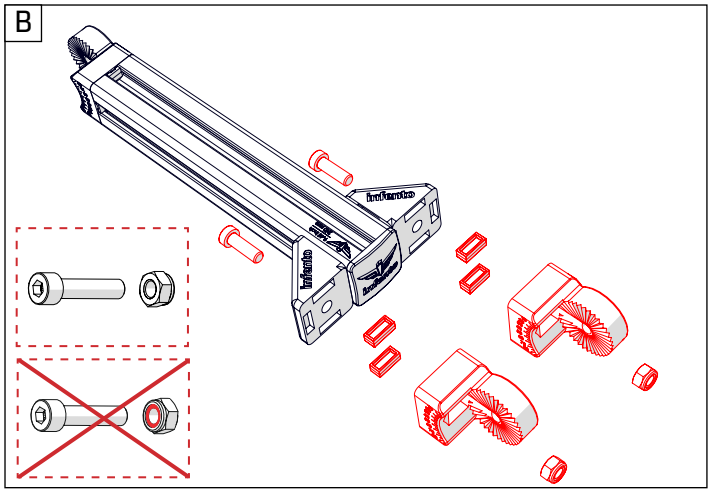
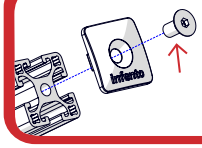
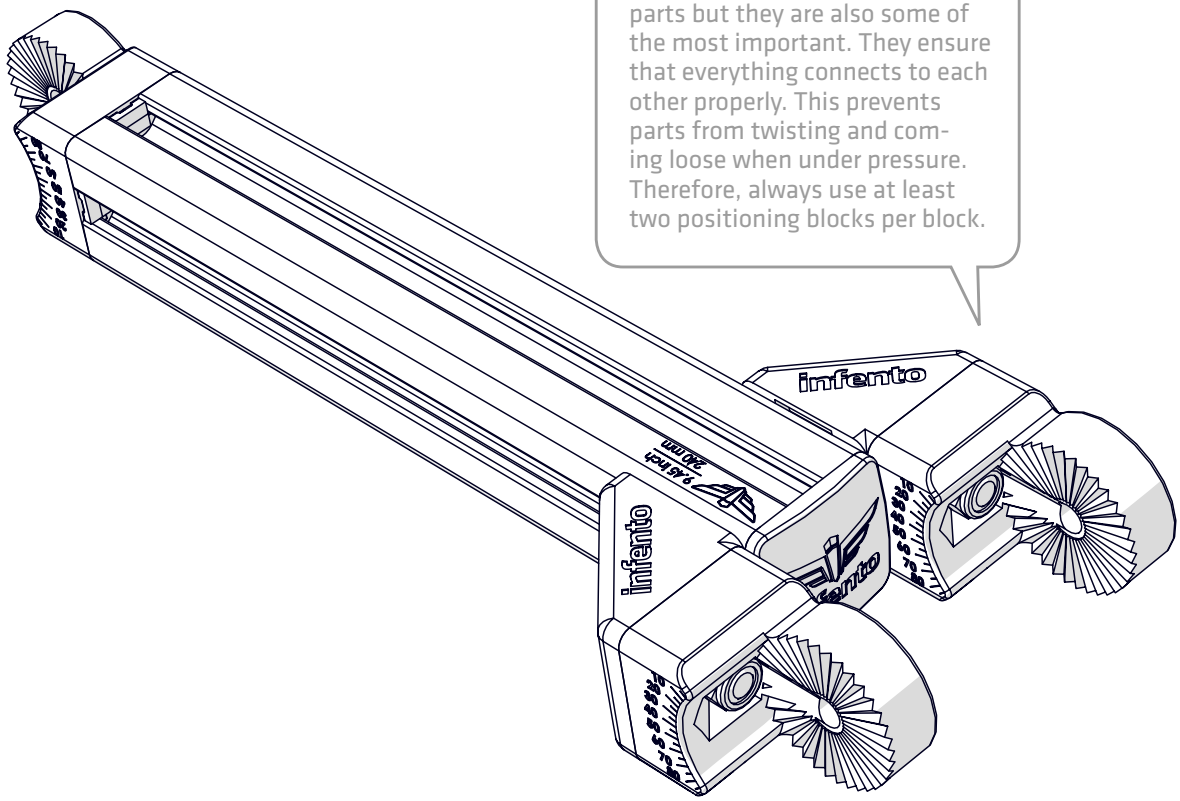




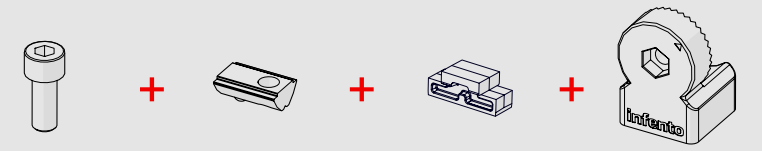
If your protect cap has a hole, use a M8x12 countersunk bolt to fasten it

The positioning blocks are some of the smallest Infento parts but they are also some of the most important. They ensure that everything connects to each other properly. This prevents parts from twisting and coming loose when under pressure. Therefore, always use at least two positioning blocks per block.



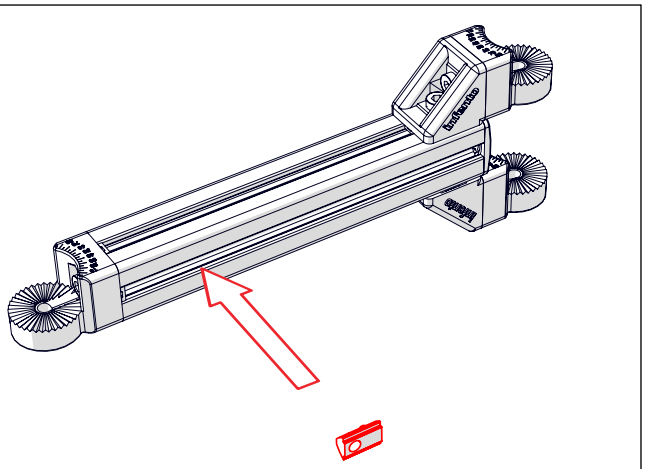
5

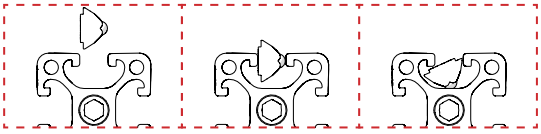
ride ***WHIRL***



Bolt M8x20	Profile nut short	T-Positioning block	Multi angle joint
1x	1x	2x	1x

A





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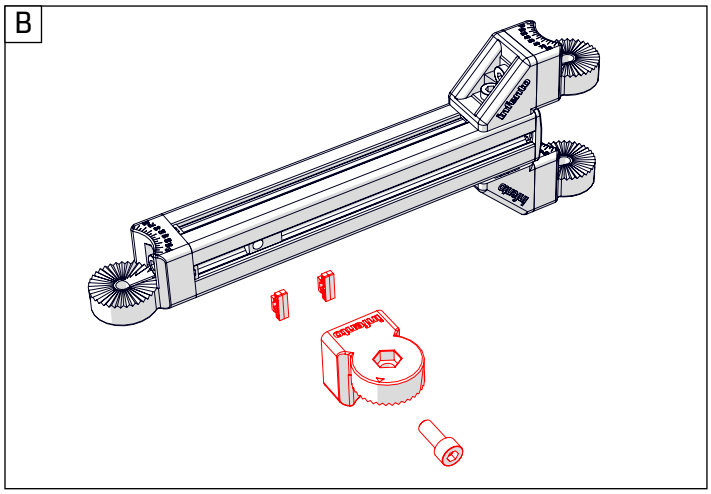

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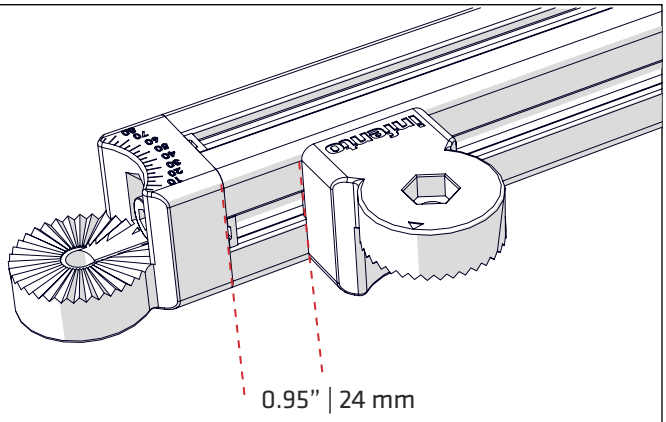
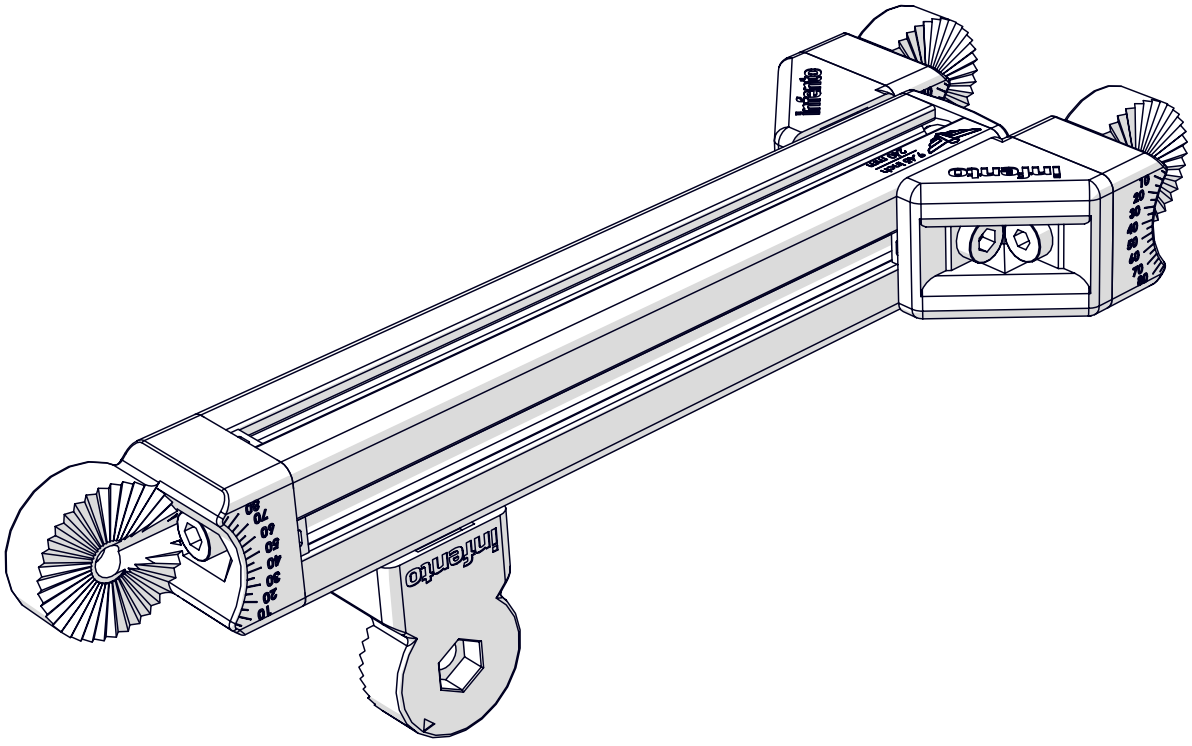
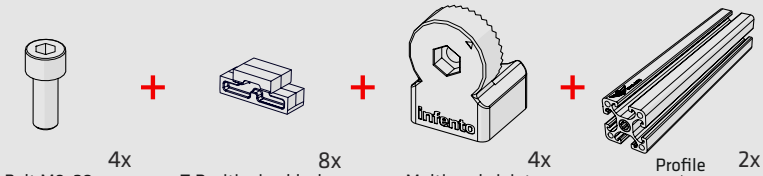




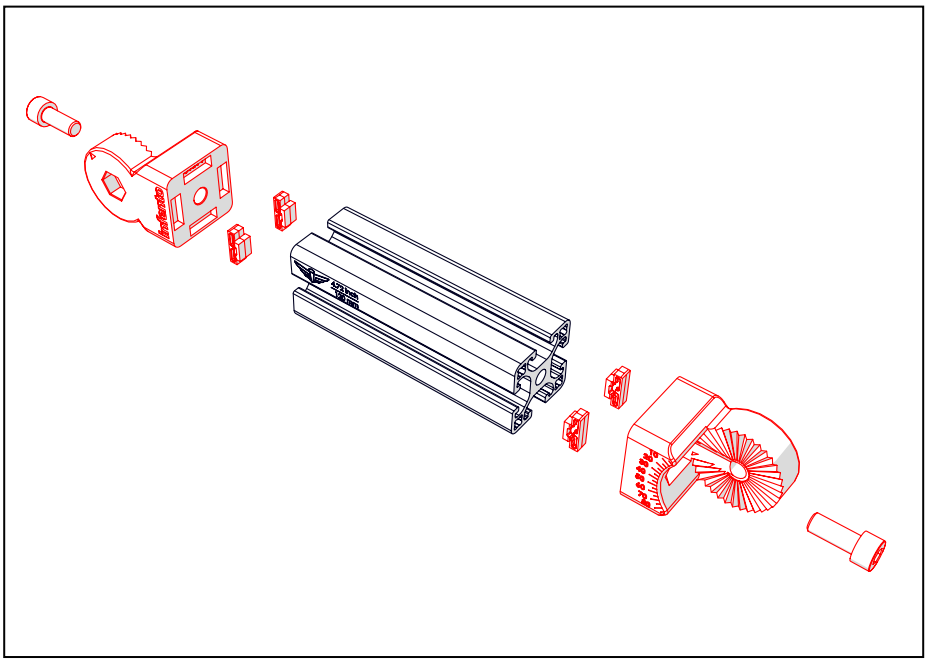


Bolt M8x20 4x

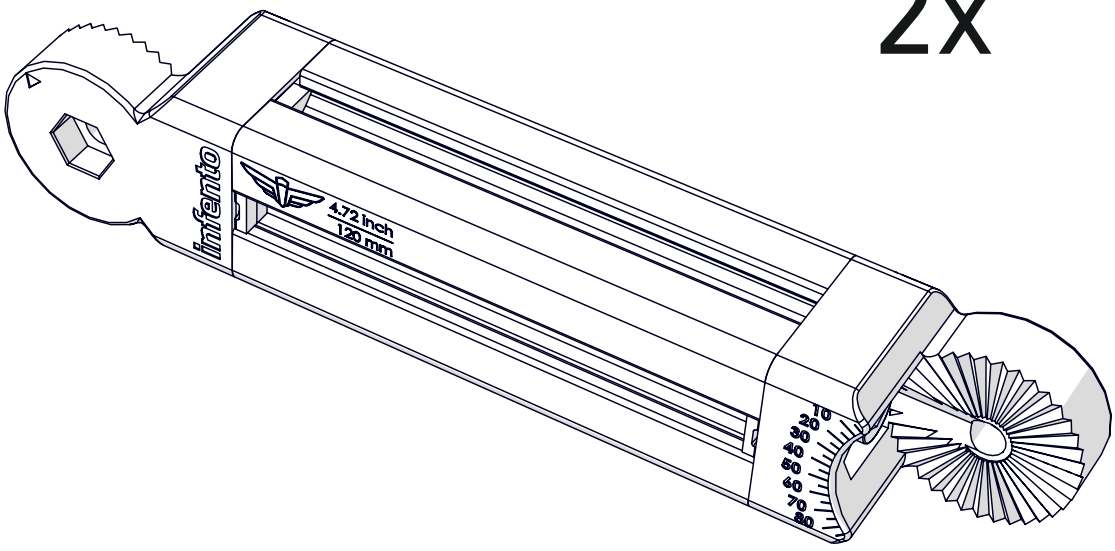
T-Positioning block 8x

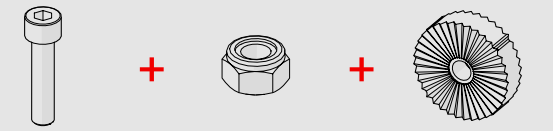
Multi angle joint 4x

Profile 4.72 inch | 120 mm 2x



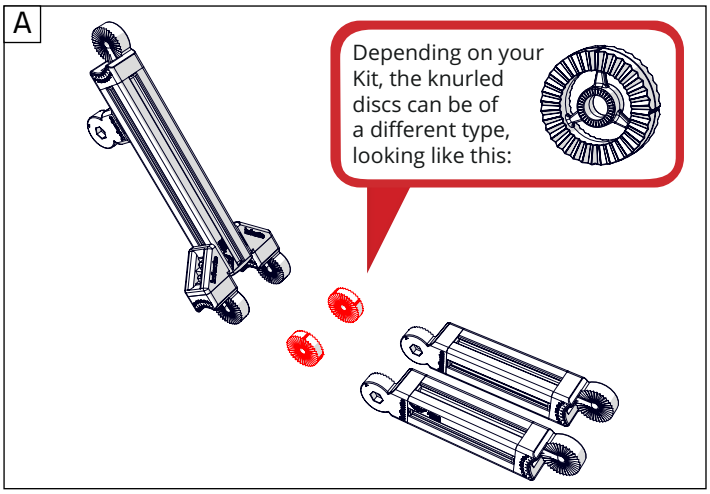
2x



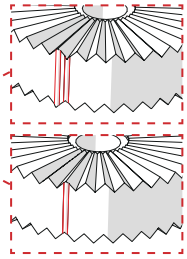


2x Bolt M8x35 + 2x Locknut M8 + 2x Knurled disc 2 stripes

A



There are two types of knurled discs. Please see education section.



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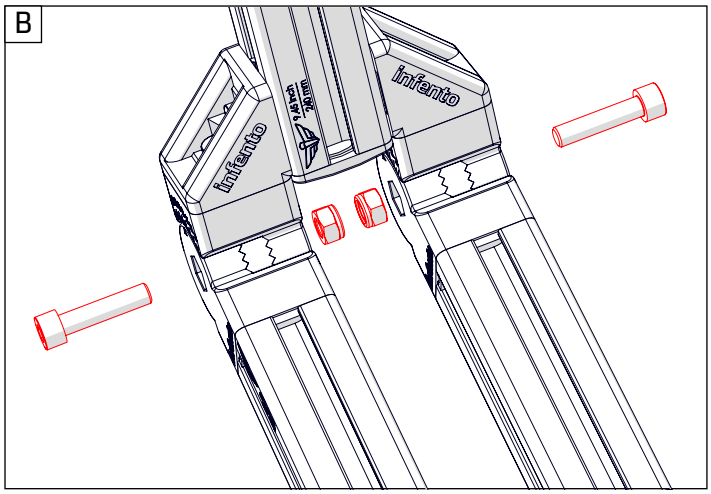

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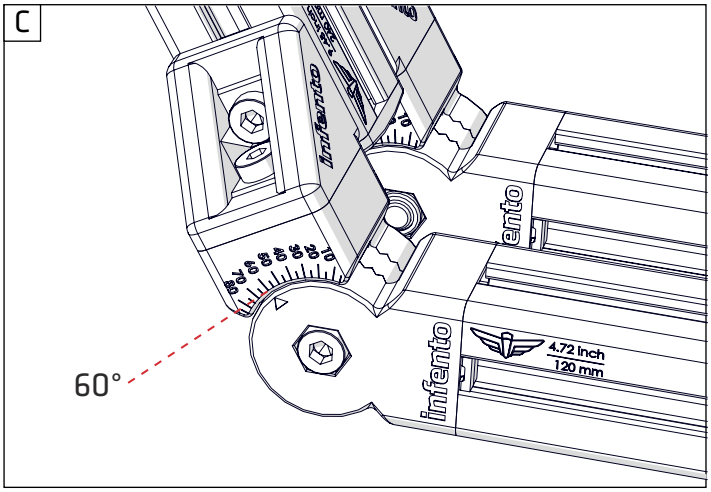
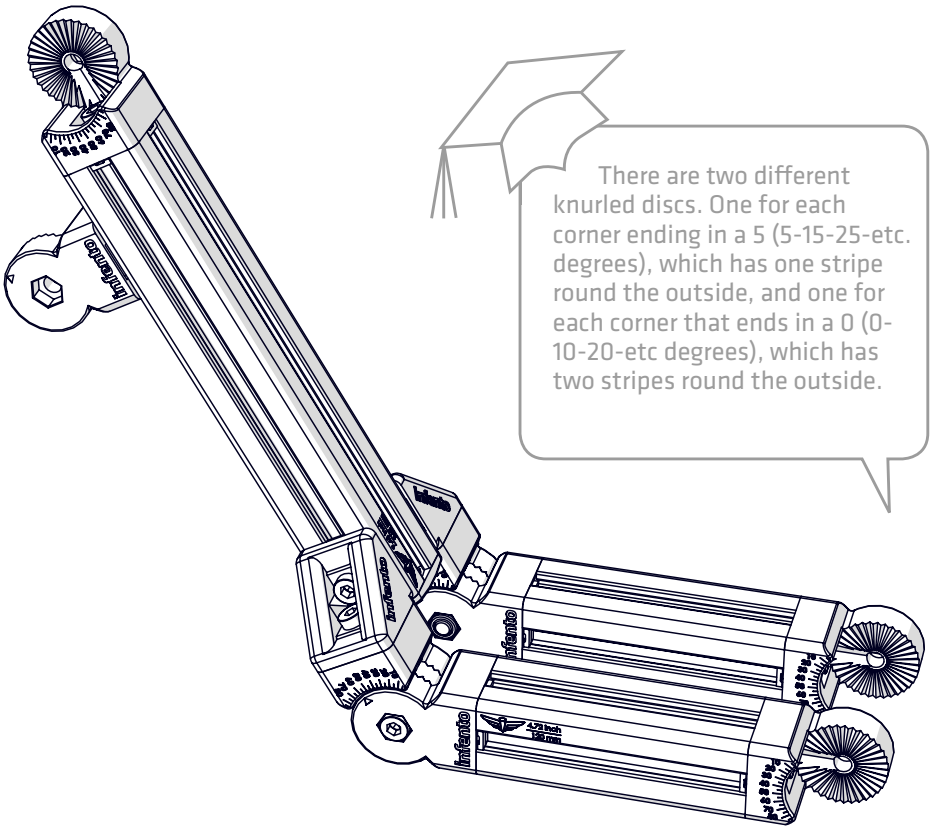
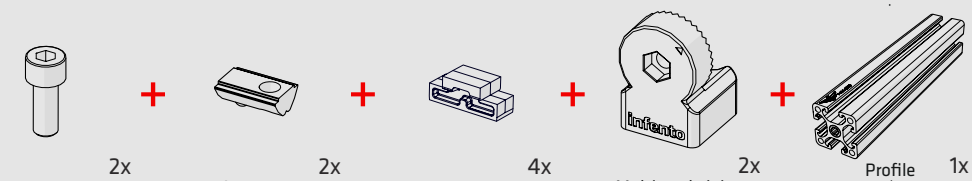




There are two different knurled discs. One for each corner ending in a 5 (5-15-25-etc. degrees), which has one stripe round the outside, and one for each corner that ends in a 0 (0-10-20-etc degrees), which has two stripes round the outside.

8

ride ***WHIRL***



2x Bolt M8x20

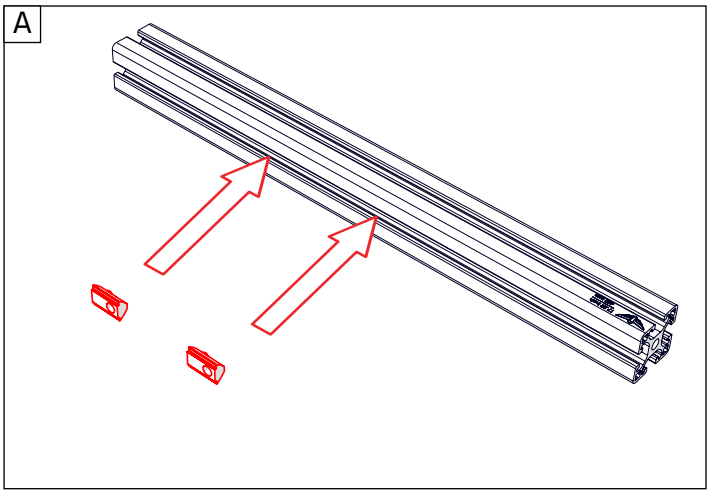
2x Profile nut short

4x T-Positioning block

2x Multi angle joint

1x Profile 17.32 inch | 440 mm

A



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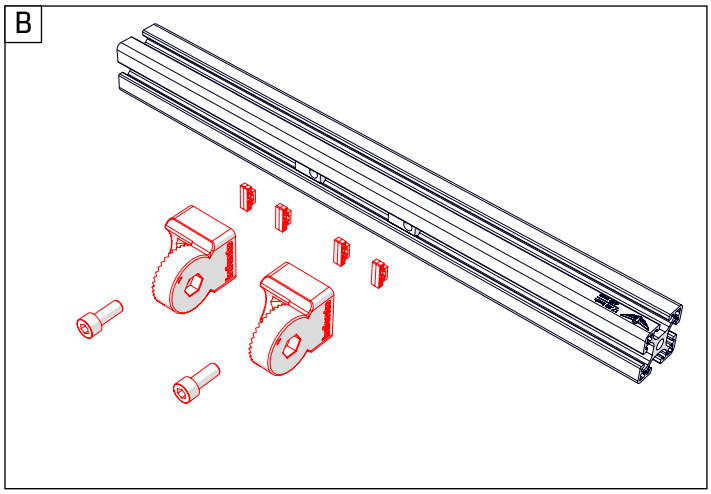

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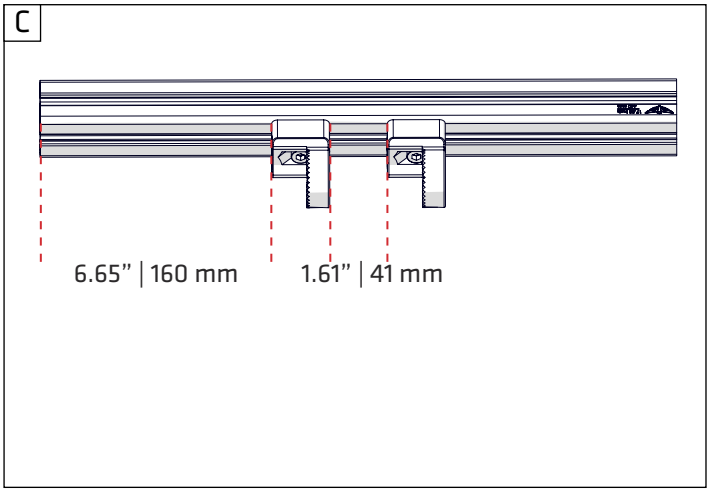
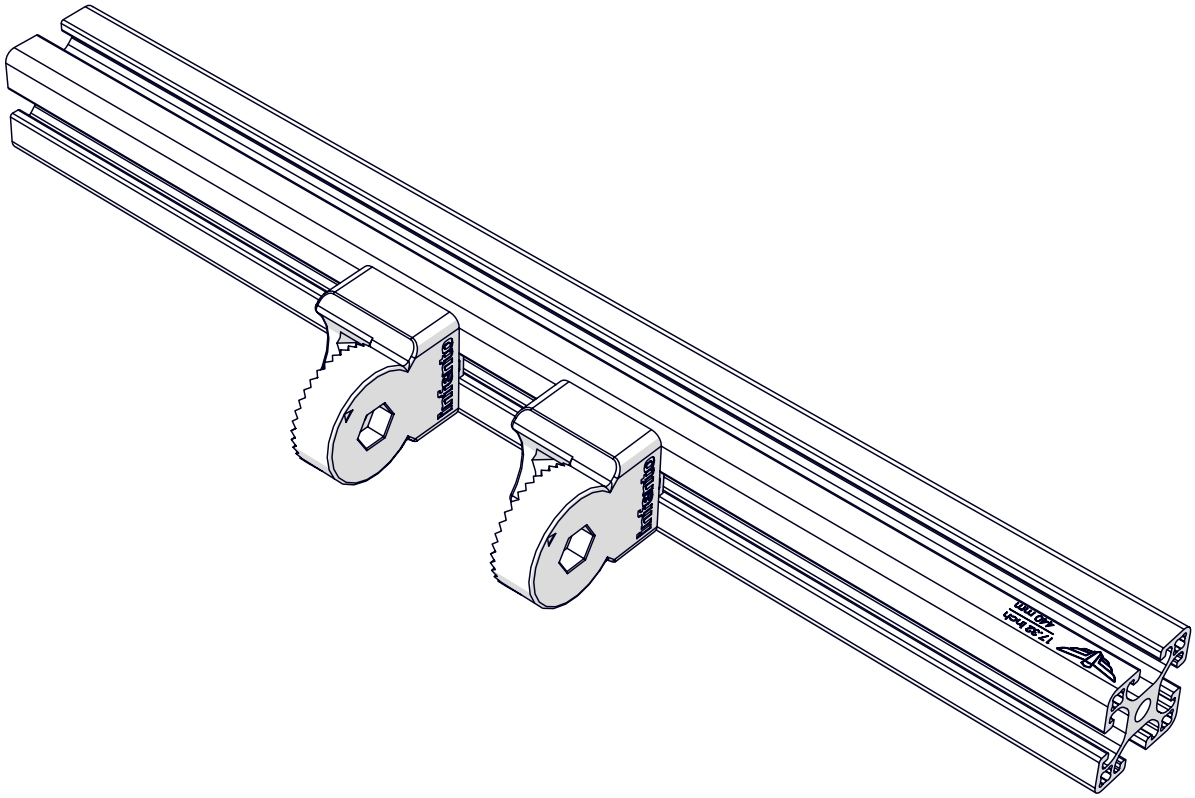




9

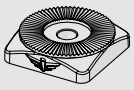
ride ***WHIRL***

Bolt M8x40 nylock (low head) 1x

4x T-Positioning block

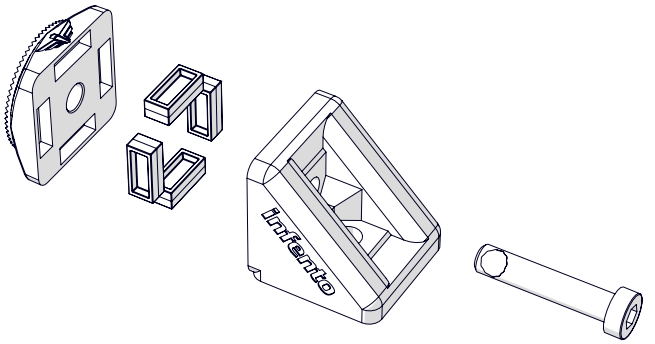
4x Positioning block

1x L-joint



2x Swivel plate

A



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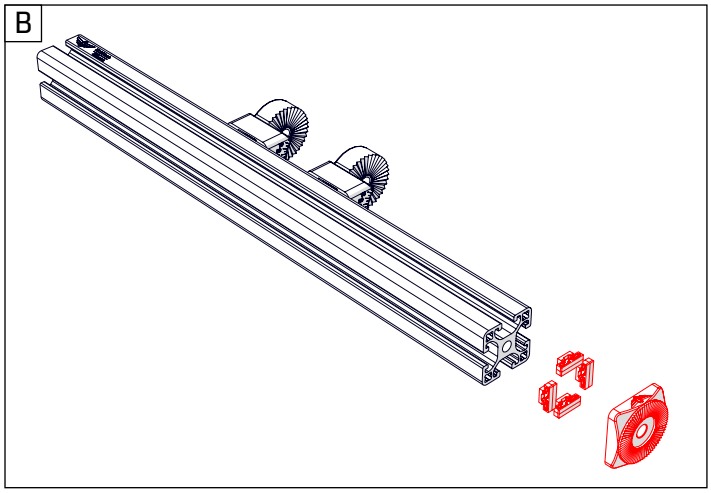

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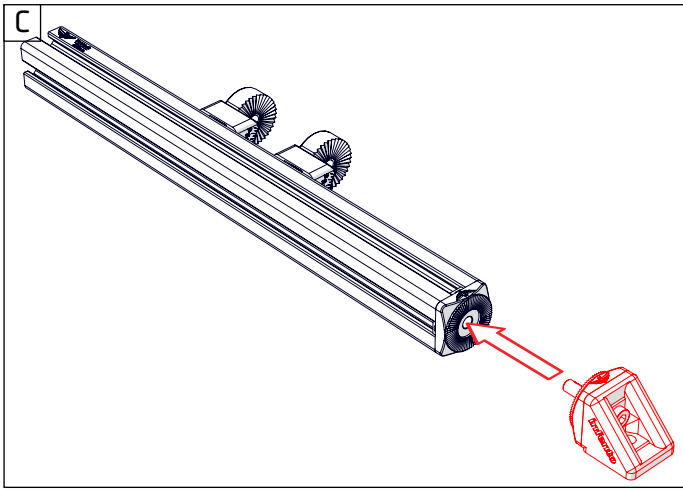

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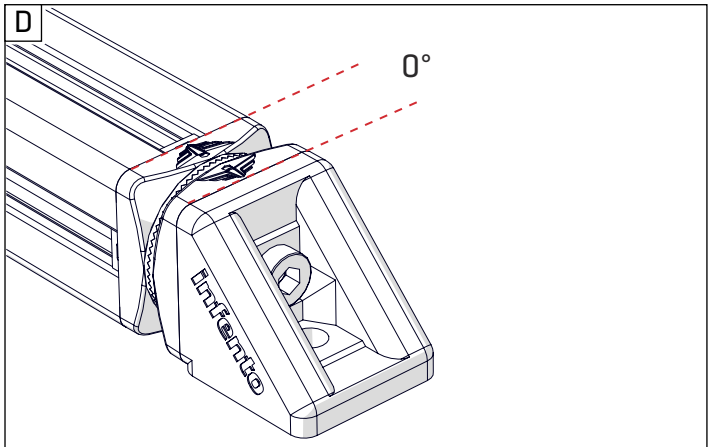
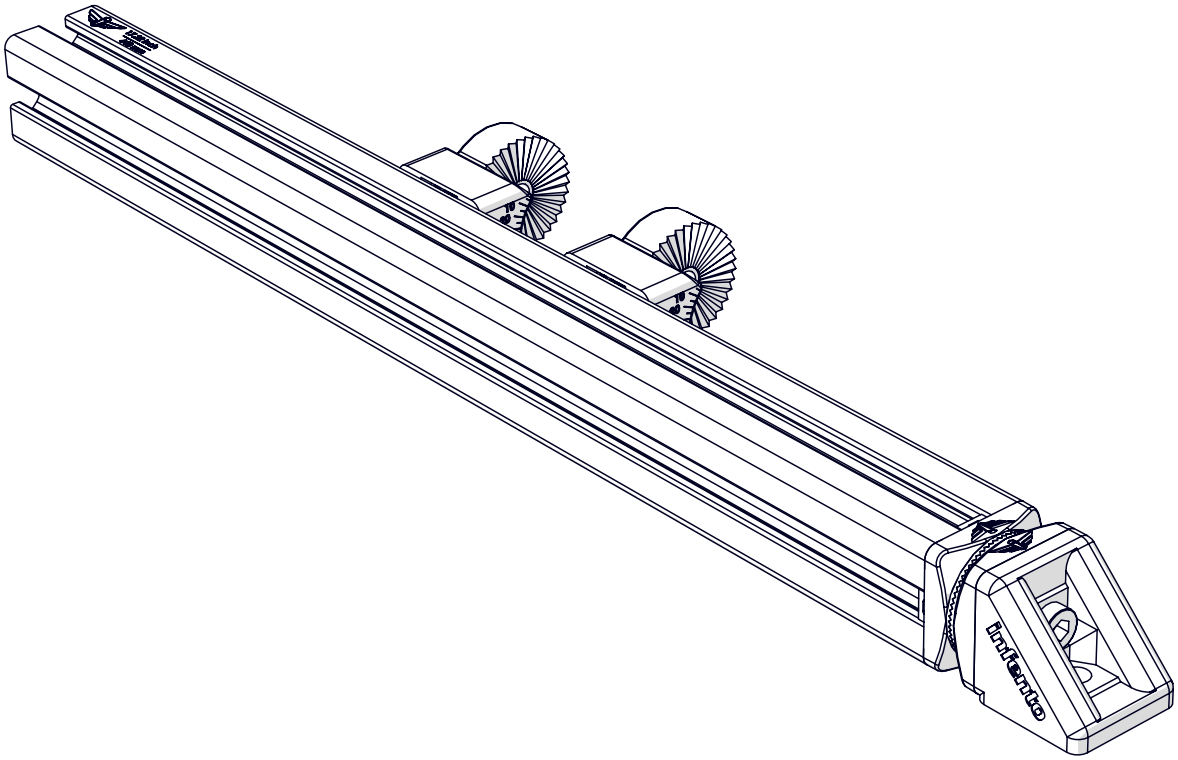
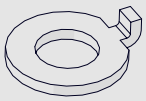


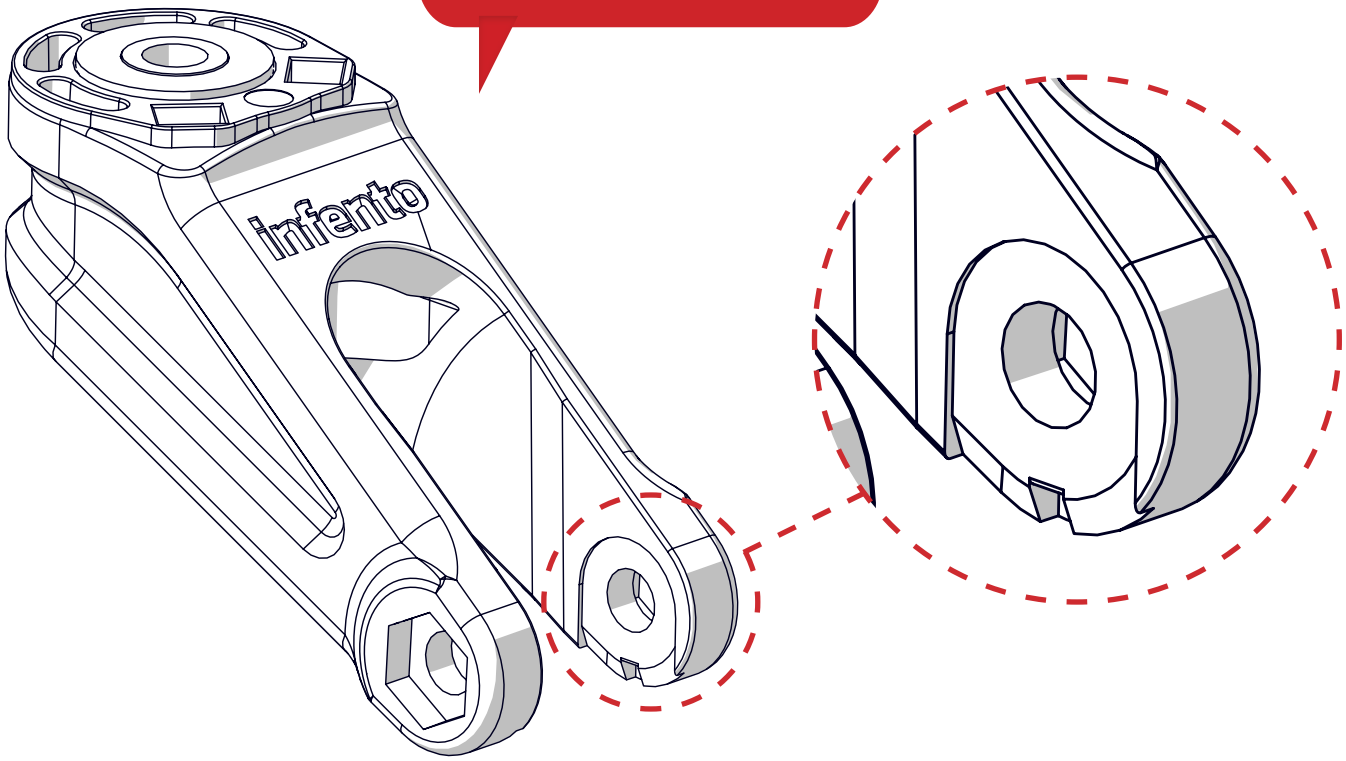


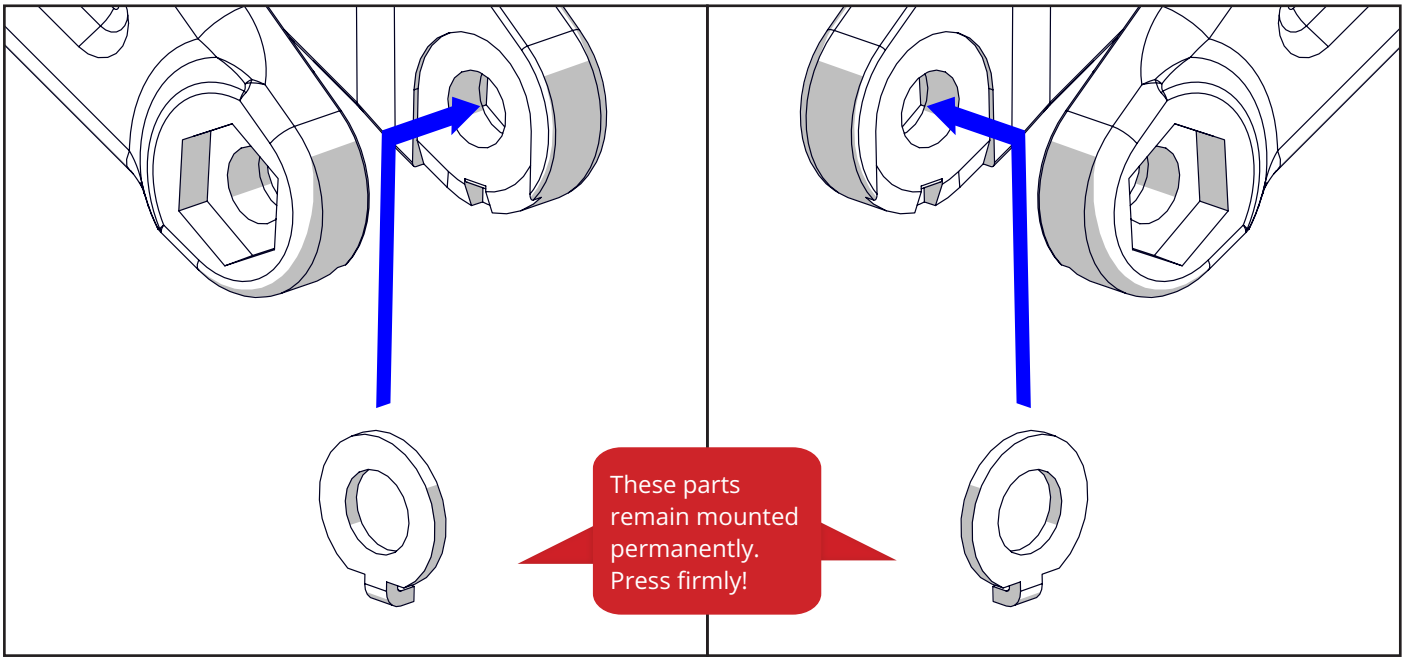
If your Kit contains a white fastener bag with 12 Nock Washers, please follow the steps on this page. If not, please skip to the next page of the manual.



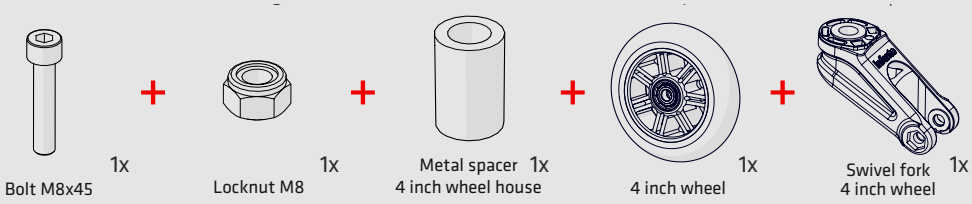
2x
Nock washer M8-16

This is the 4" Swivel Wheelhouse. Before being able to use this part, you need two Nock Washers M8-16. Press these washers into the slots.

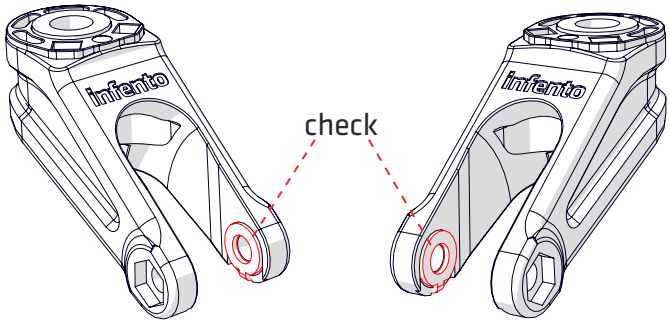




These parts remain mounted permanently. Press firmly!



A



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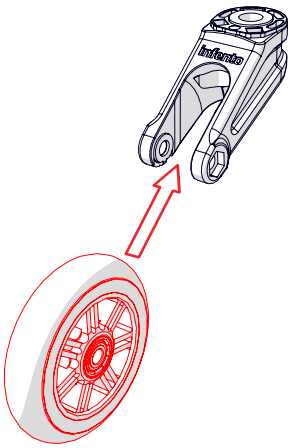

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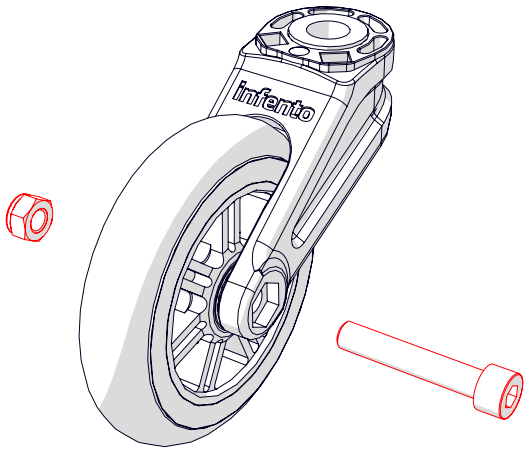

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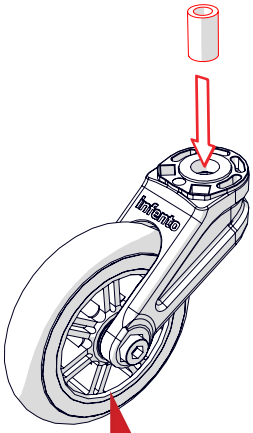
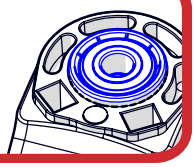
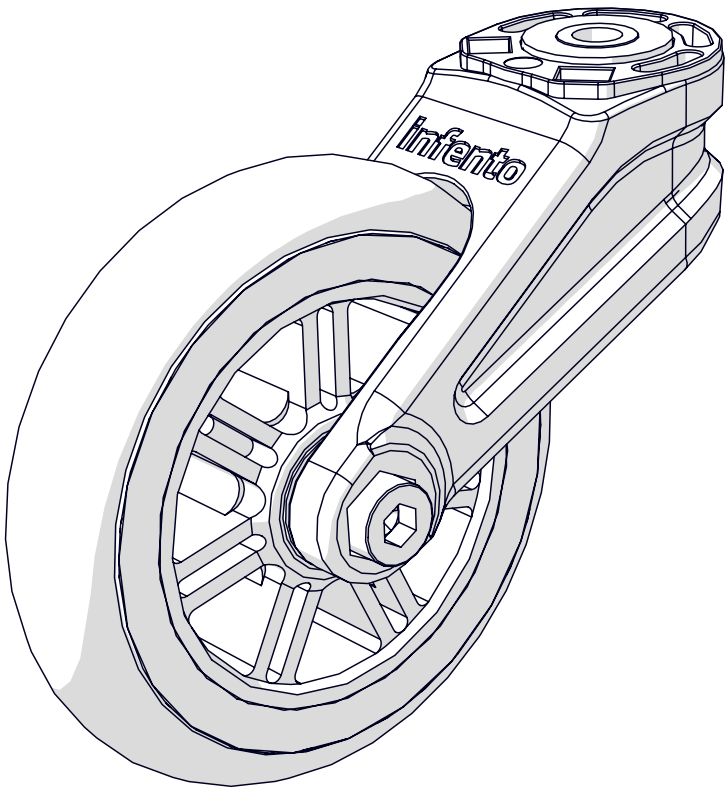
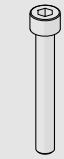


If your **Swivel Fork 4" Wheel** contains a metal bearing on top (instead of a red plastic ring), you can skip this step!

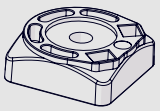





Bolt M8x60 1x

Positioning block 2x

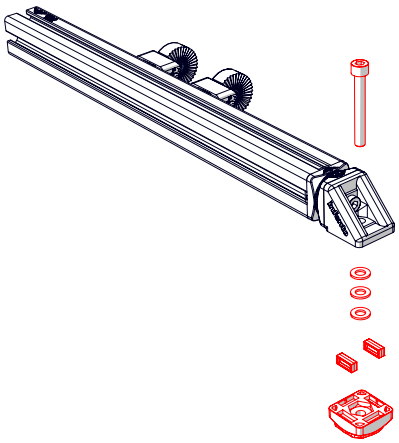
Washer M8-16 3x


Connector Swivel fork 4 inch wheel 1x

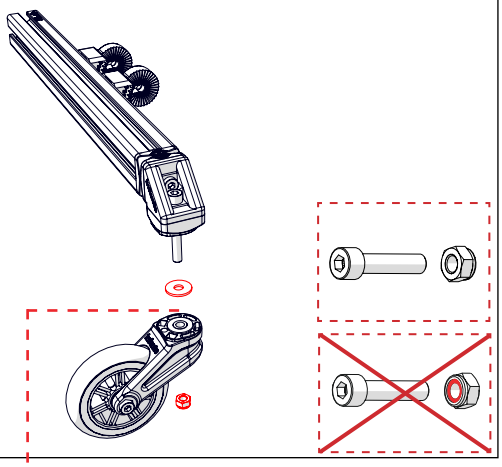
Locknut M8 1x

Washer M8-24 1x

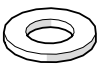
A

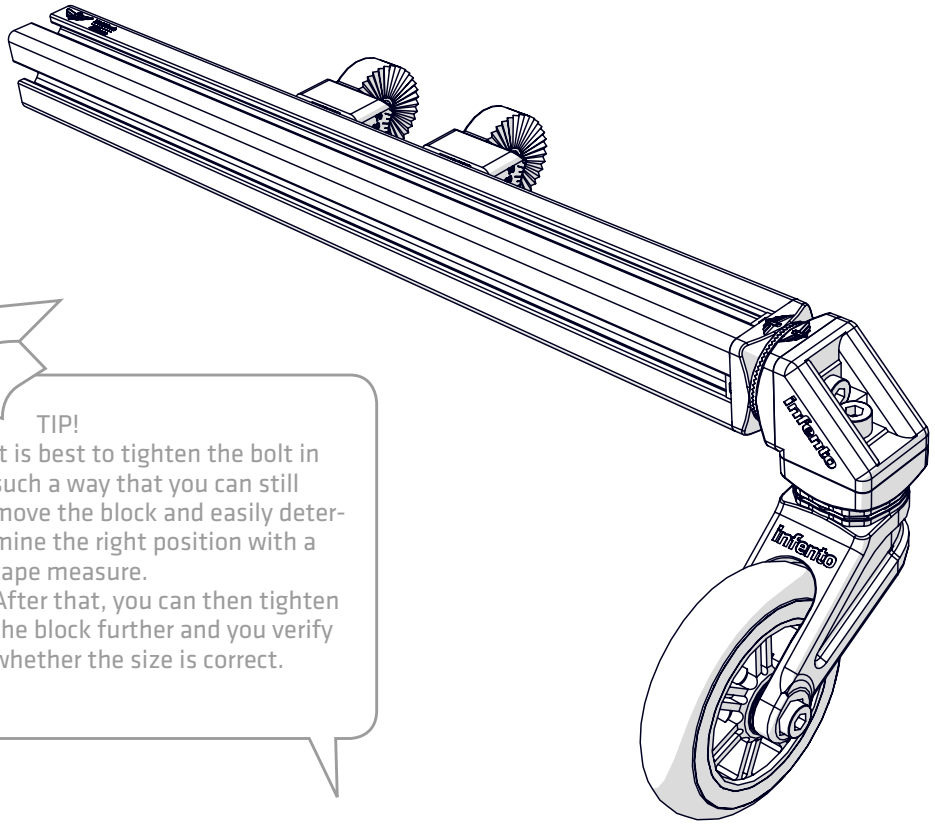


B



If your **Swivel Fork 4" Wheel** contains a metal bearing on top, add a Washer M8-16 between the bearing and the Washer M8-24.


Washer M8-16 1x



TIP!
It is best to tighten the bolt in such a way that you can still move the block and easily determine the right position with a tape measure.
After that, you can then tighten the block further and you verify whether the size is correct.

13

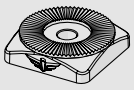
ride ***WHIRL***

Bolt M8x40 nylock (low head) 1x

T-Positioning block 4x

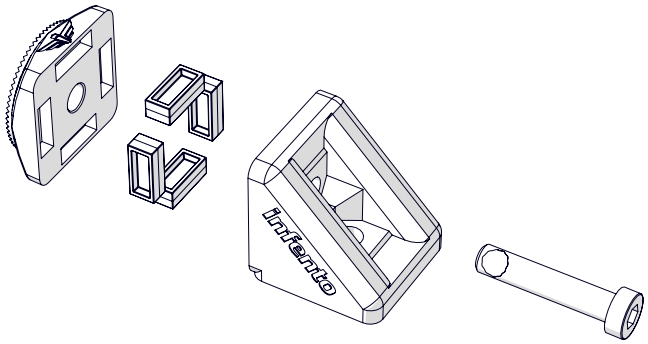
Positioning block 4x

L-joint 1x



Swivel plate 2x

A



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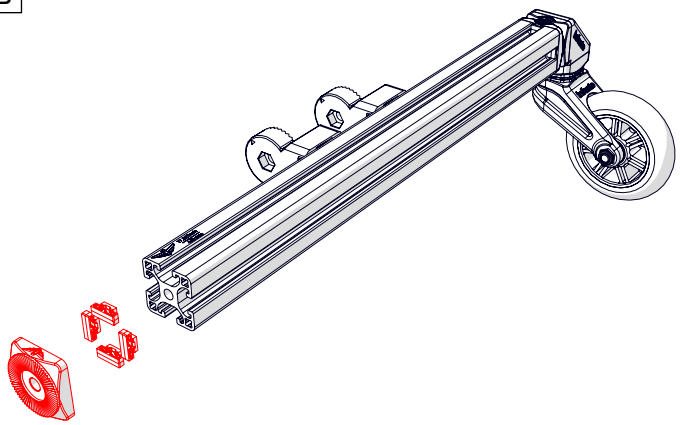

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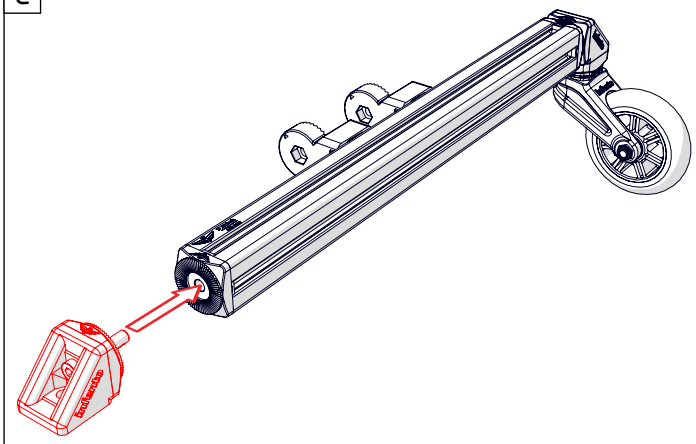

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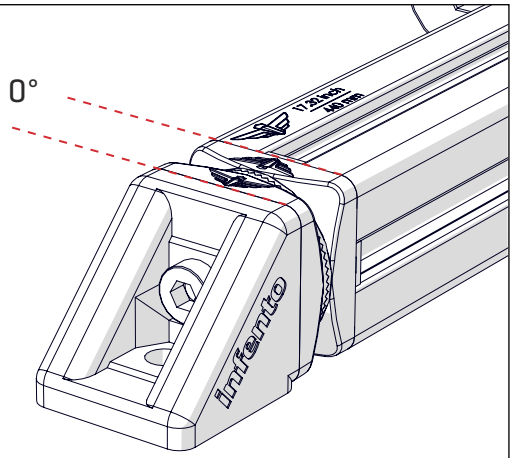

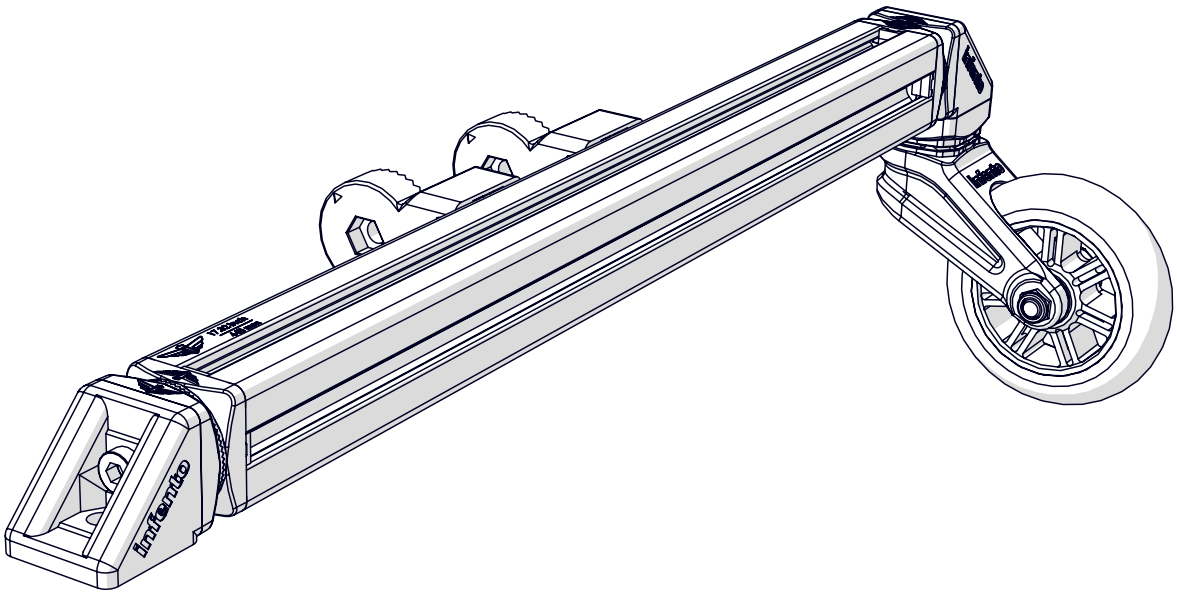

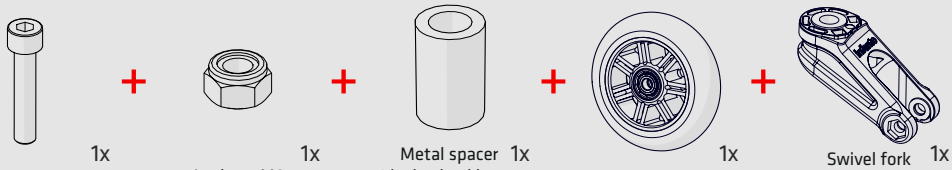

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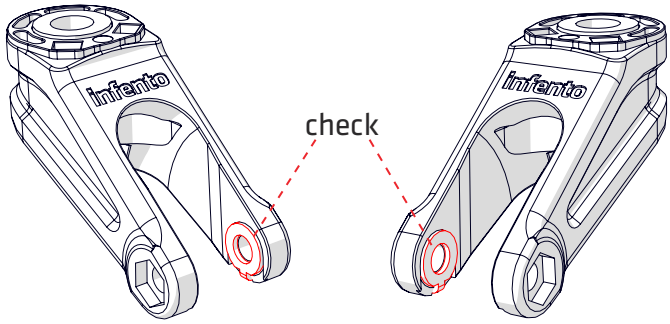

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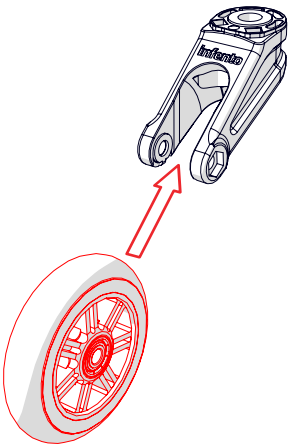

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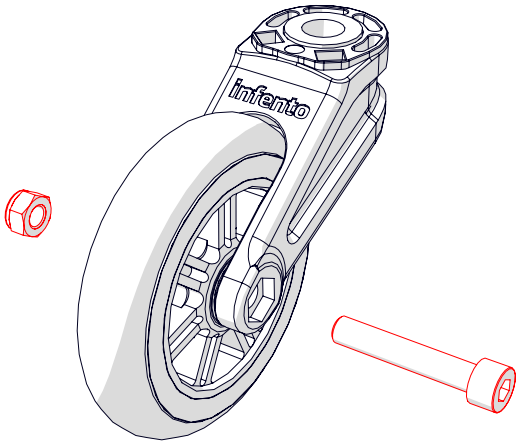

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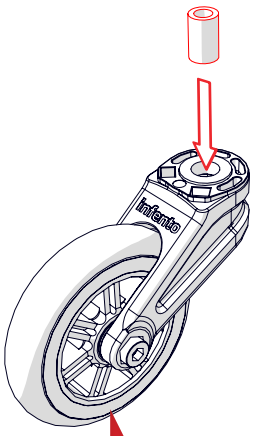
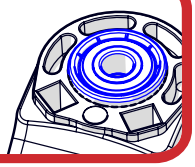
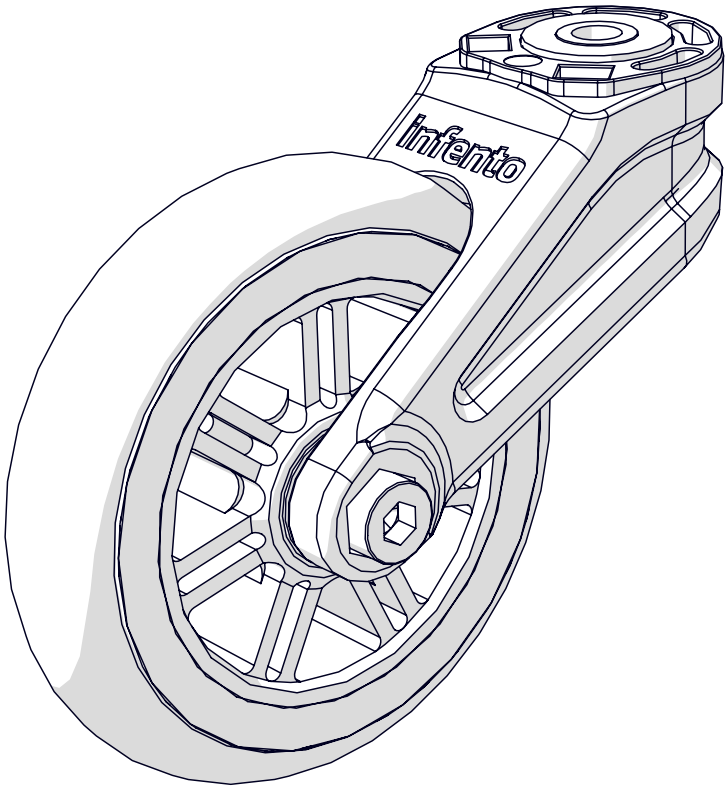


If your **Swivel Fork 4" Wheel** contains a metal bearing on top (instead of a red plastic ring), you can skip this step!

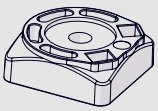




Bolt M8x60 1x

Positioning block 2x

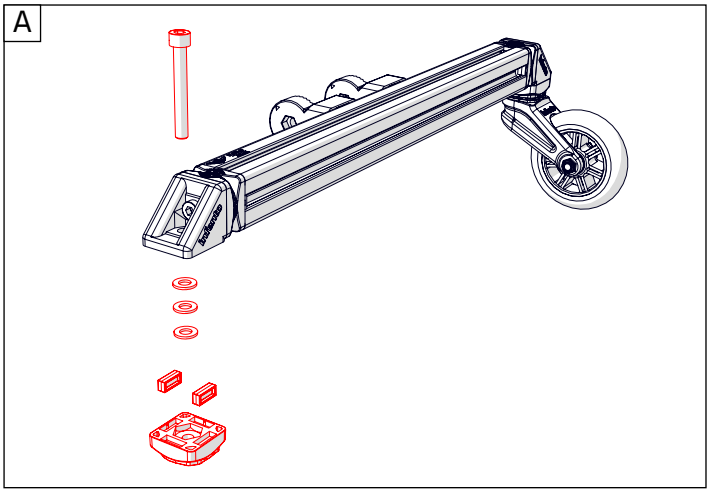
Washer M8-16 3x


Connector Swivel fork 4 inch wheel 1x

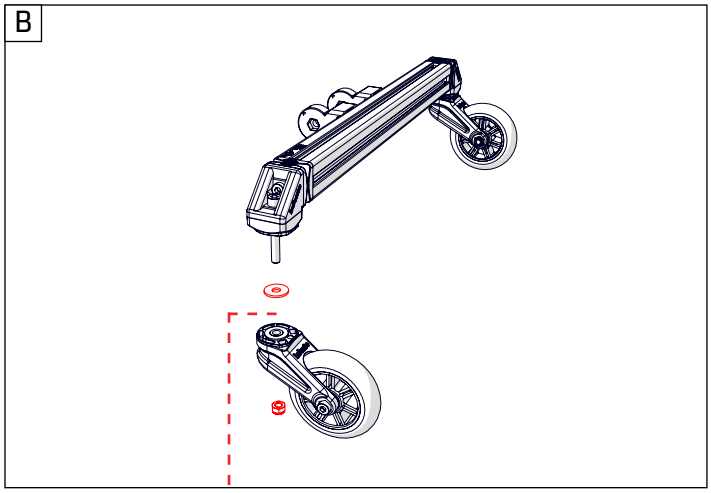
Locknut M8 1x

Washer M8-24 1x

A

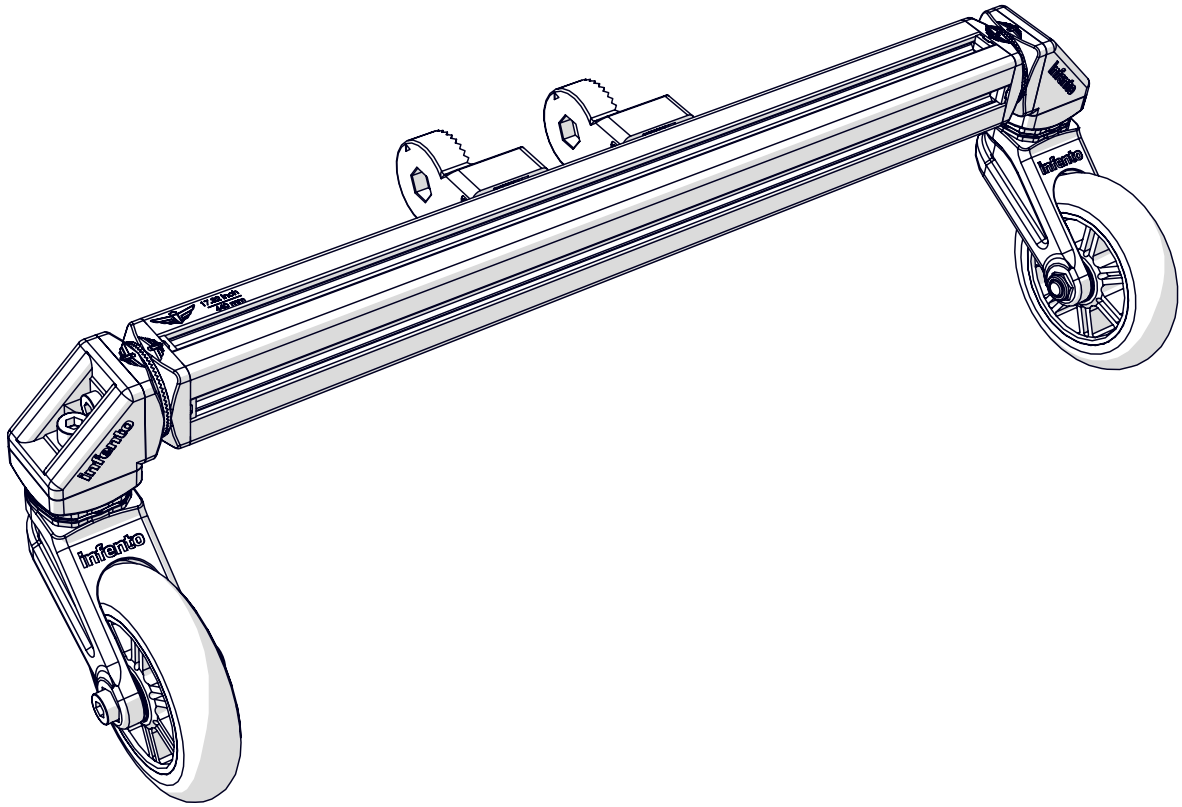


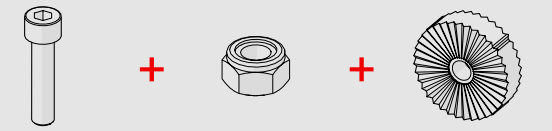
B



If your **Swivel Fork 4" Wheel** contains a metal bearing on top, add a Washer M8-16 between the bearing and the Washer M8-24.

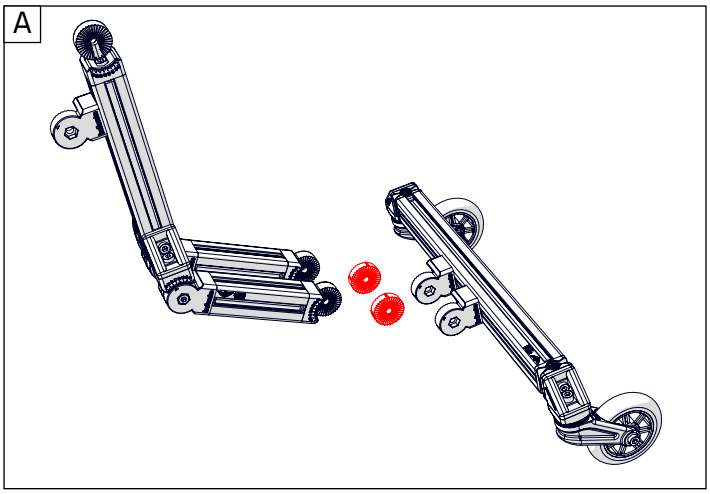
Washer M8-16 1x





Bolt M8x35 2x + Locknut M8 2x + Knurled disc 2 stripes 2x

A



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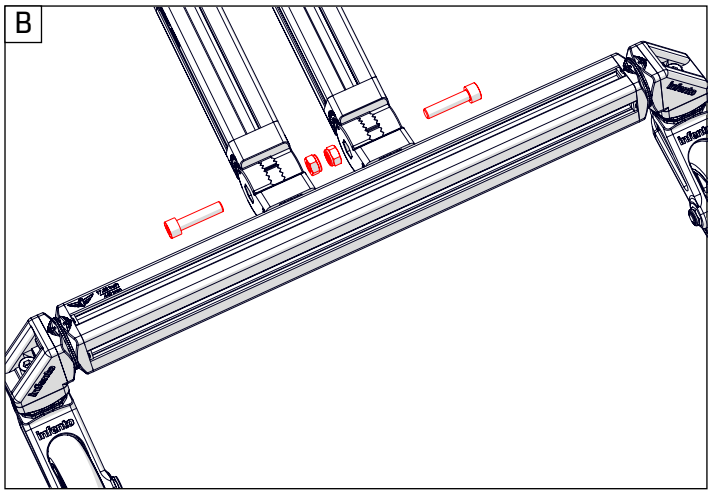

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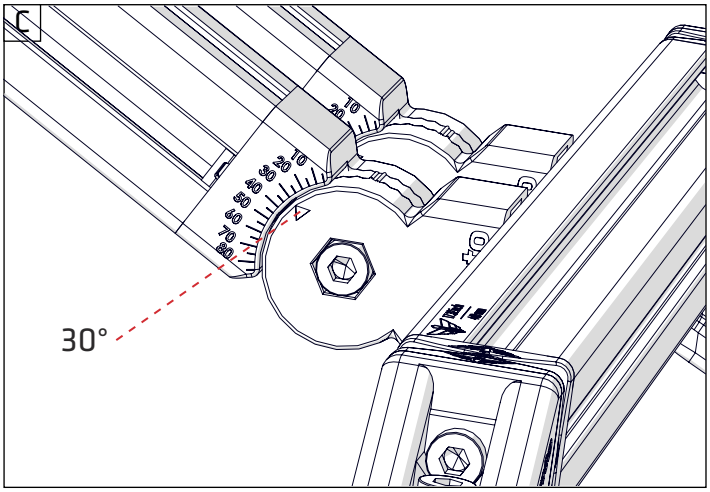
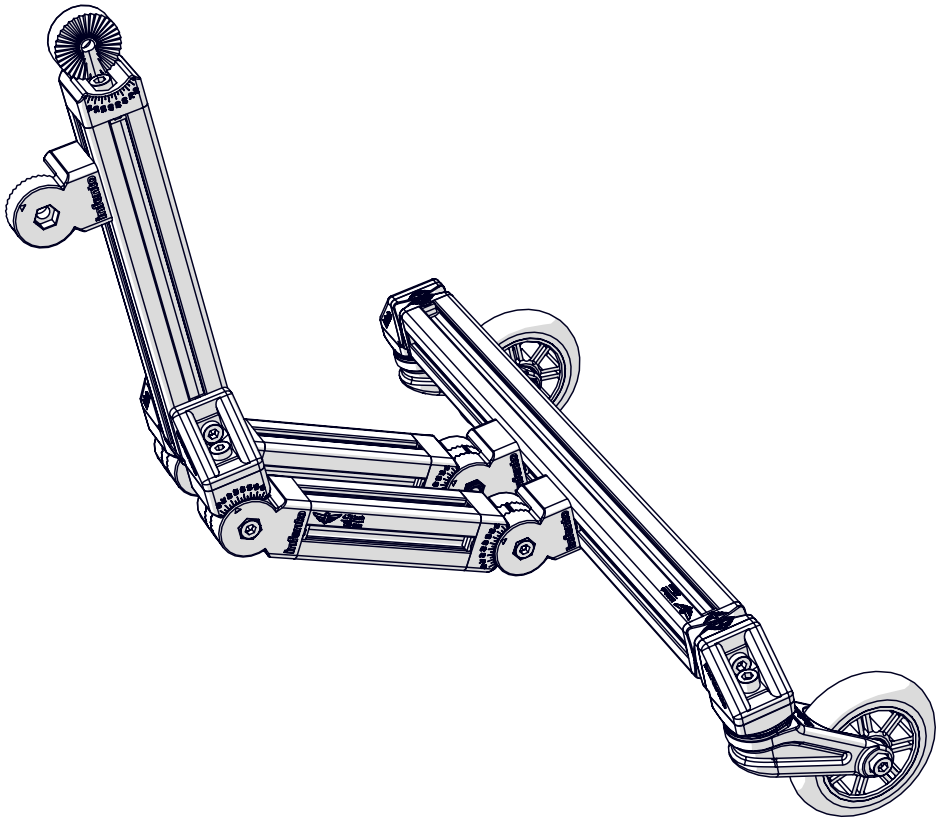
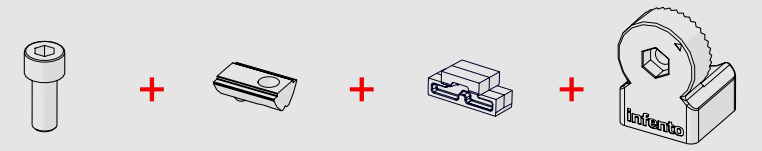
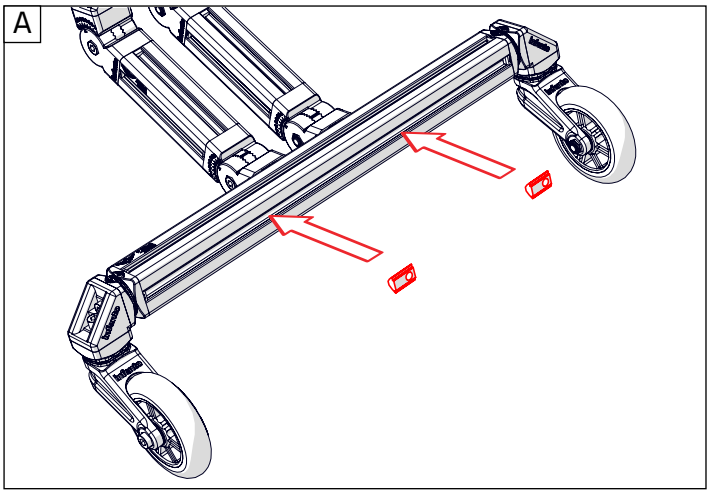




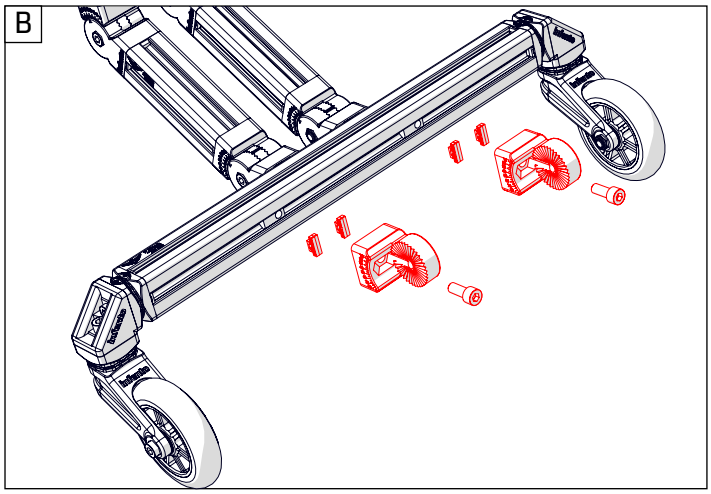


2x Bolt M8x20 + 2x Profile nut short + 4x T-Positioning block + 2x Multi angle joint

A



B



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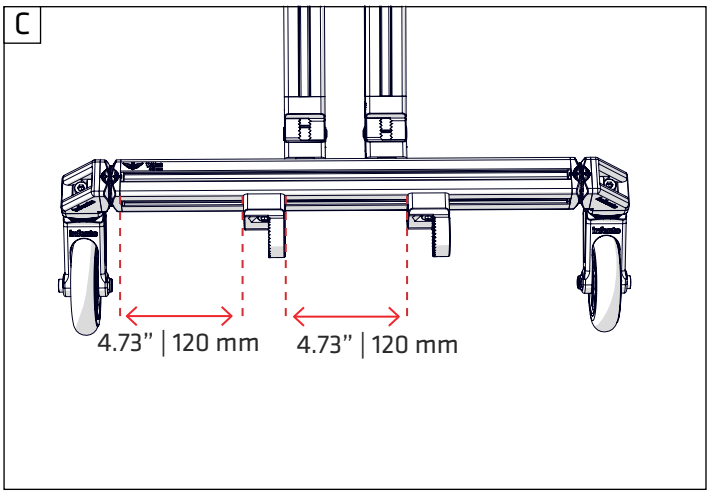
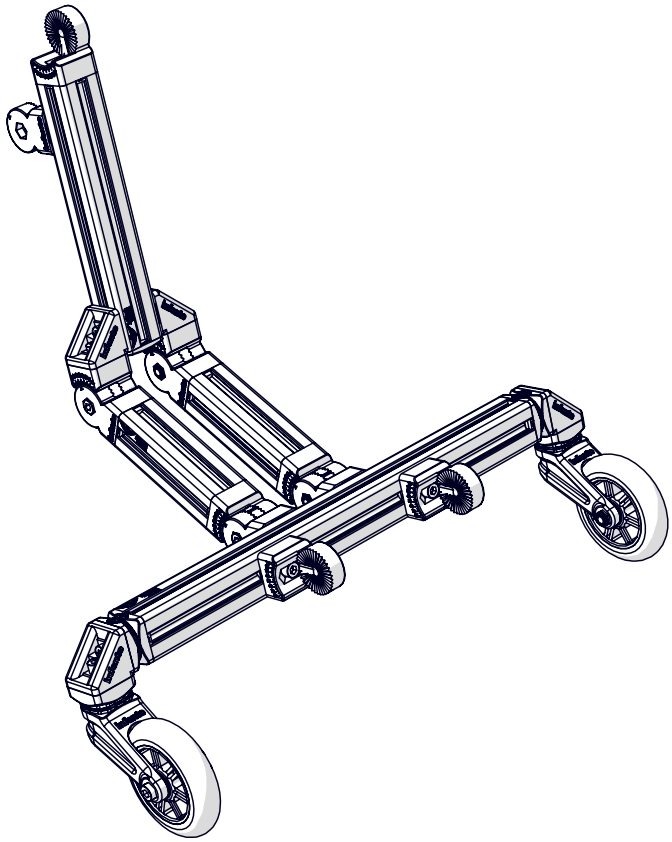
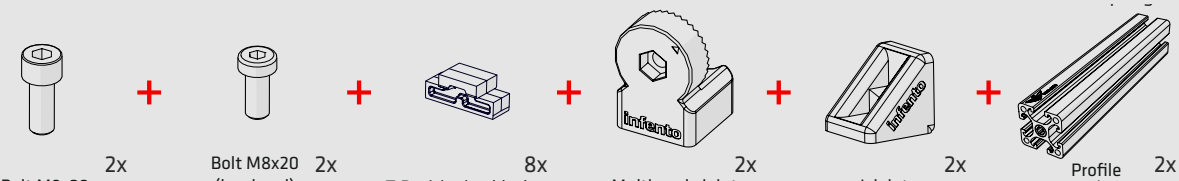
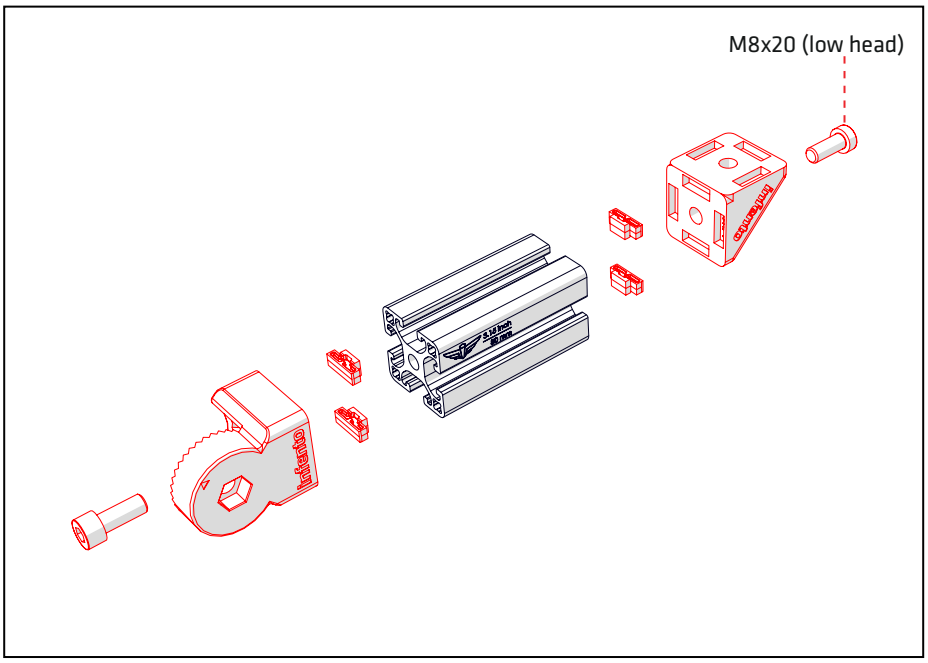
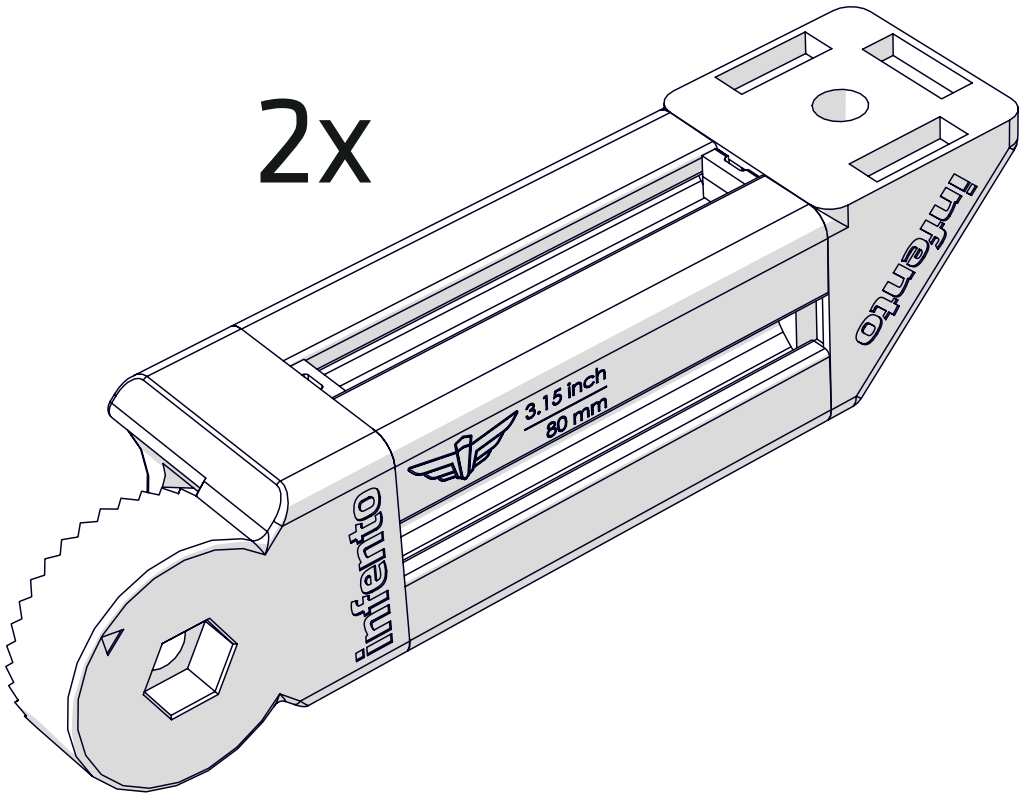
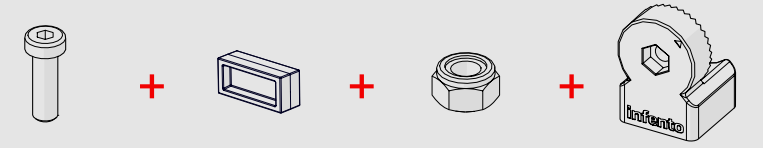


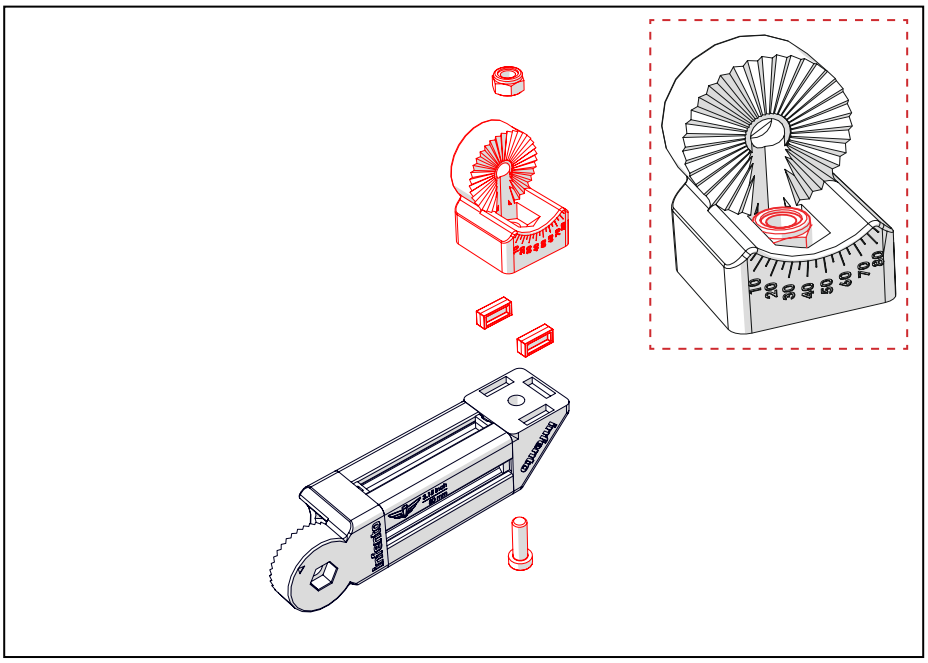



Bolt M8x20
2x
Bolt M8x20
(low head)
2x
8x
T-Positioning block
2x
Multi angle joint
2x
L-joint
Profile
3.15 inch | 80 mm
2x

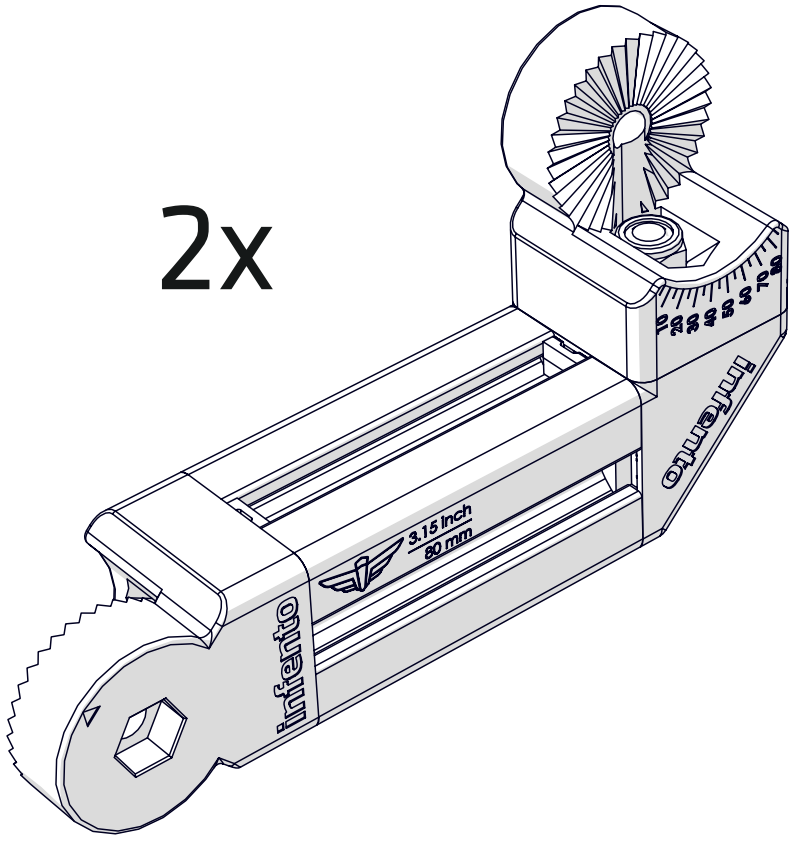

M8x20 (low head)

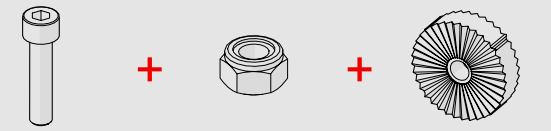

2x
infento
3.15 inch
80 mm
infento


Bolt M8x25
(low head)
2x
4x
Positioning block
2x
Locknut M8
2x
Multi angle joint



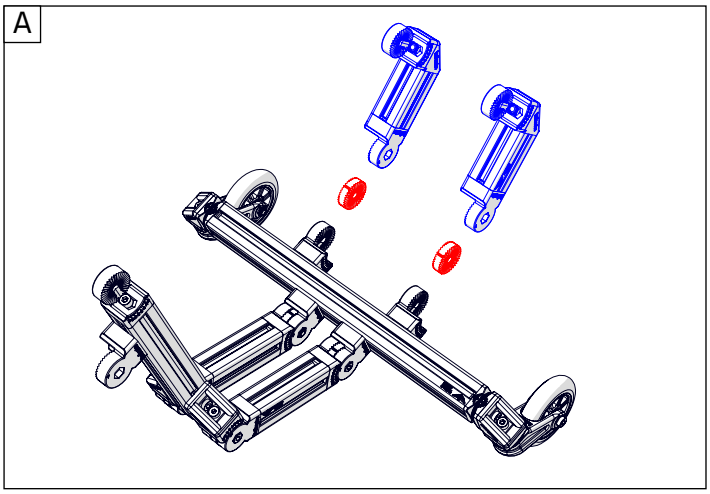
2x

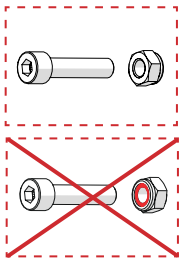

3.15 Inch
80 mm
infentto



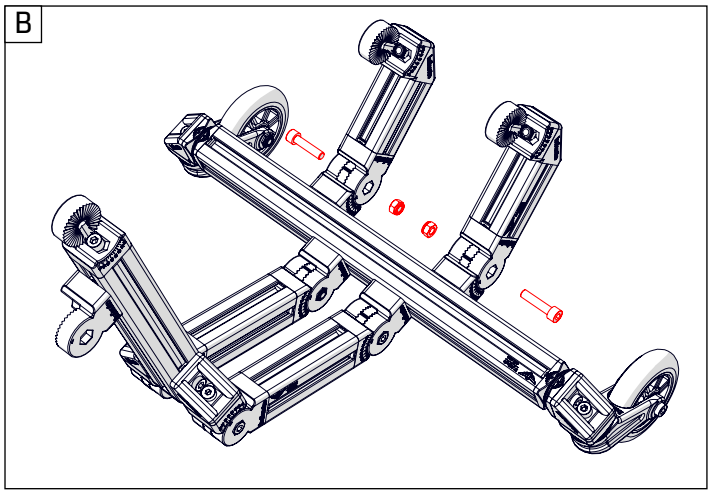
2x Bolt M8x35 + 2x Locknut M8 + 2x Knurled disc 2 stripes

A

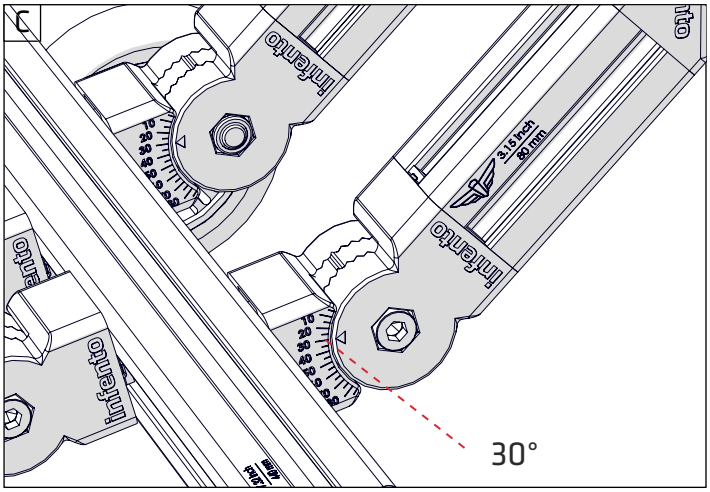


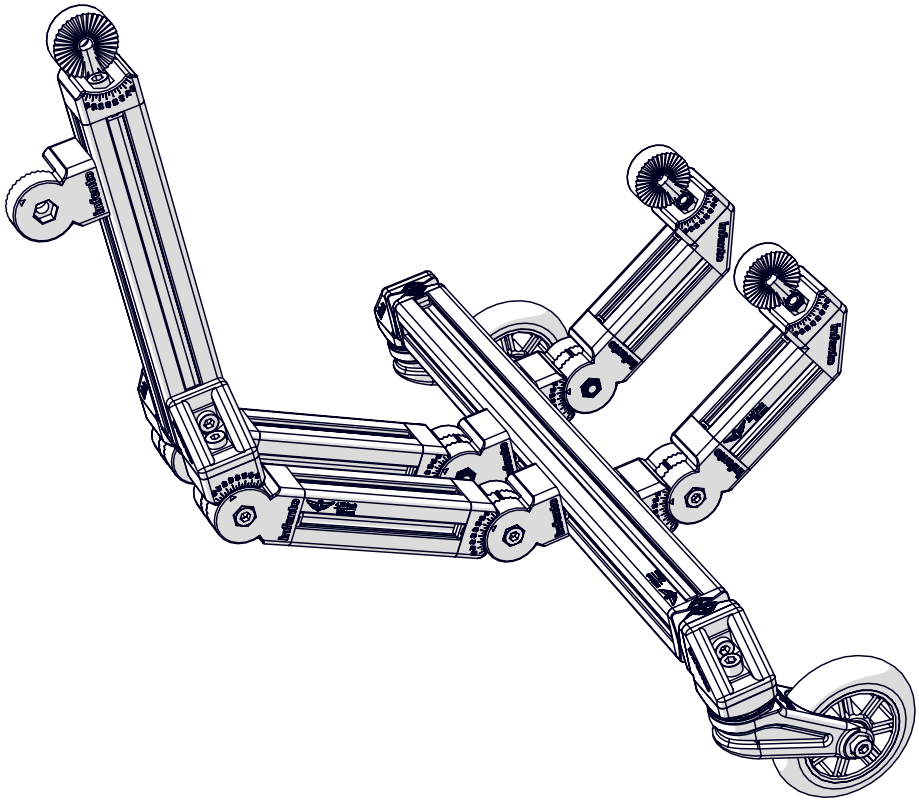


B

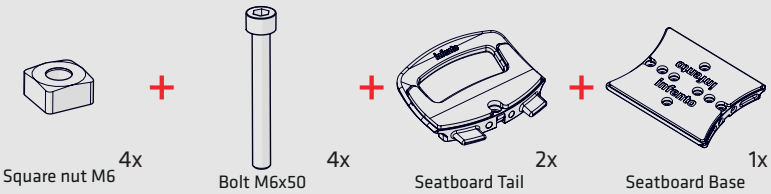


C

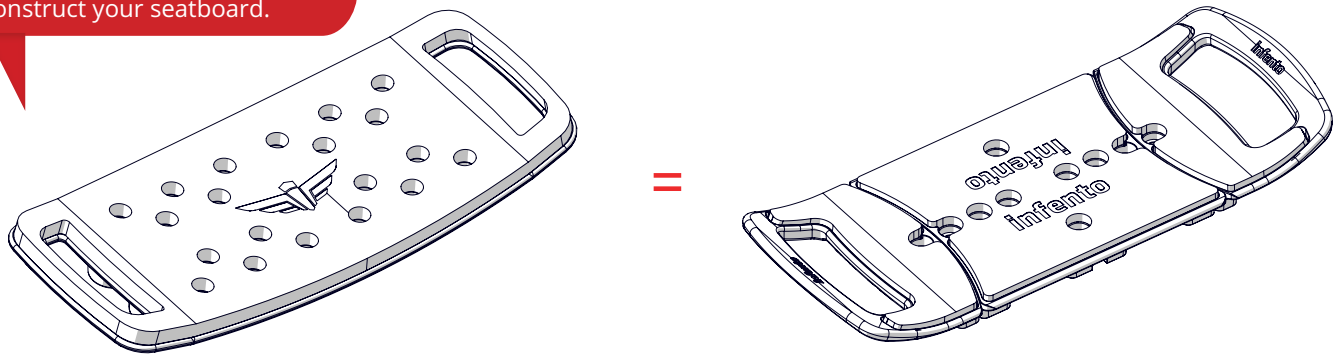


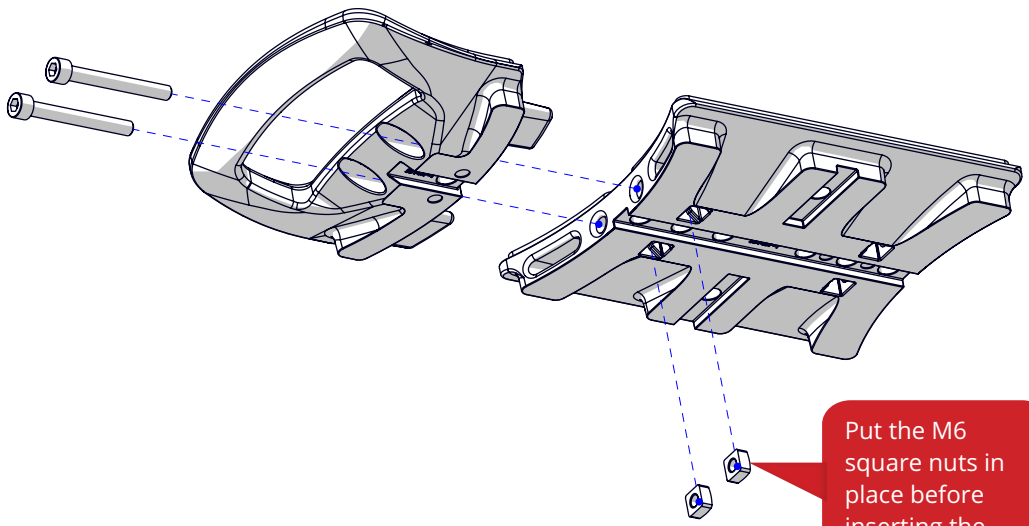


21

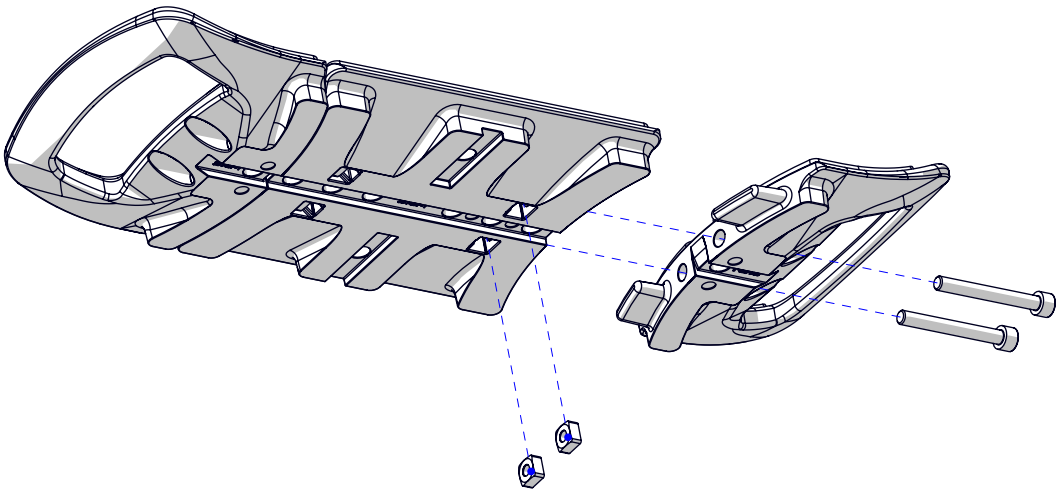


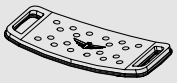
If you have this type of seat in your Kit, please skip to the next page. If not, follow the instructions below to construct your seatboard.





Put the M6 square nuts in place before inserting the M6x50 bolts.

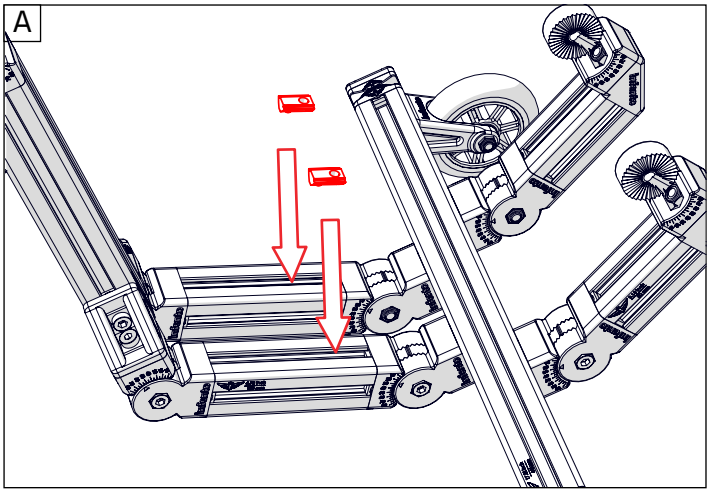


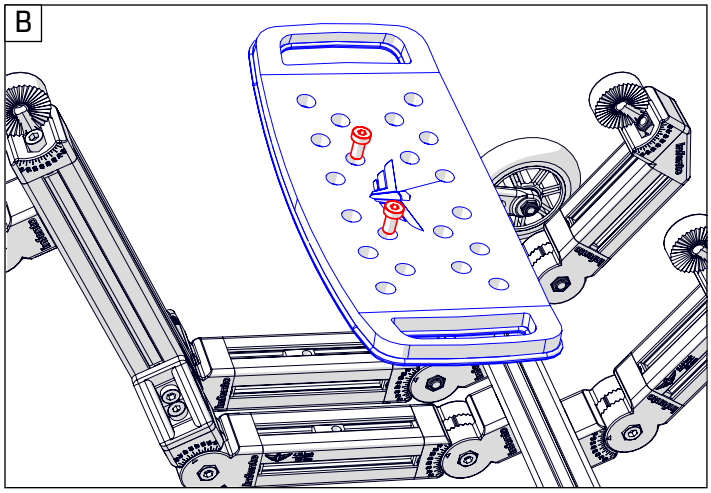


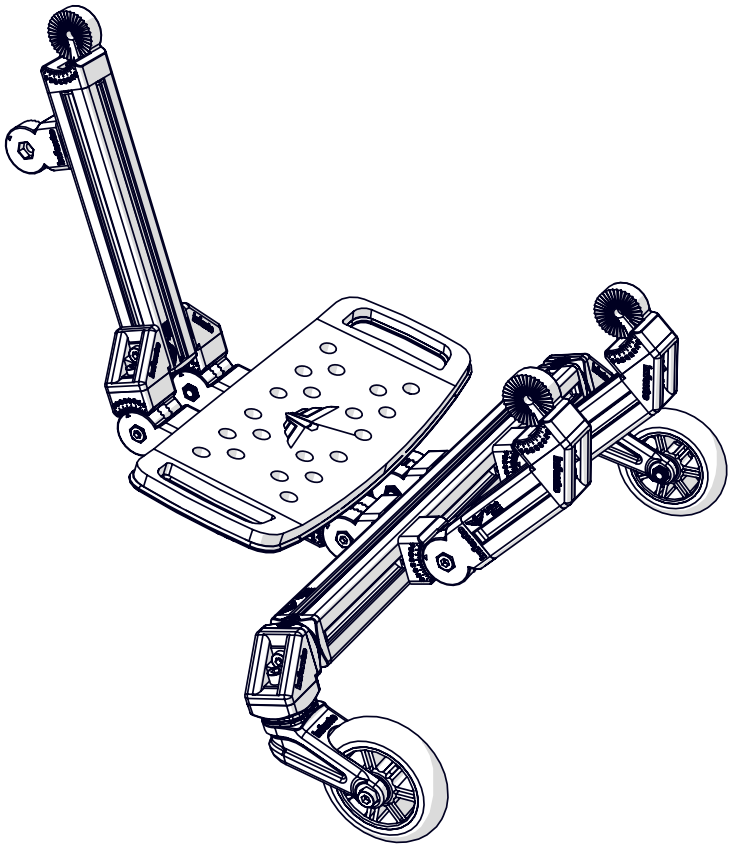
Seatboard 1x

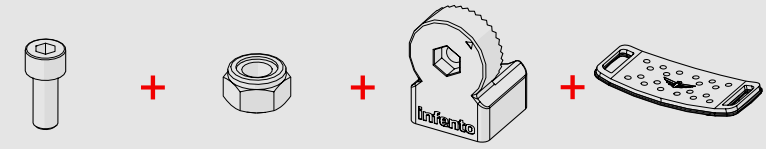
Bolt M8x16 (low head) 2x

Profile nut short 2x

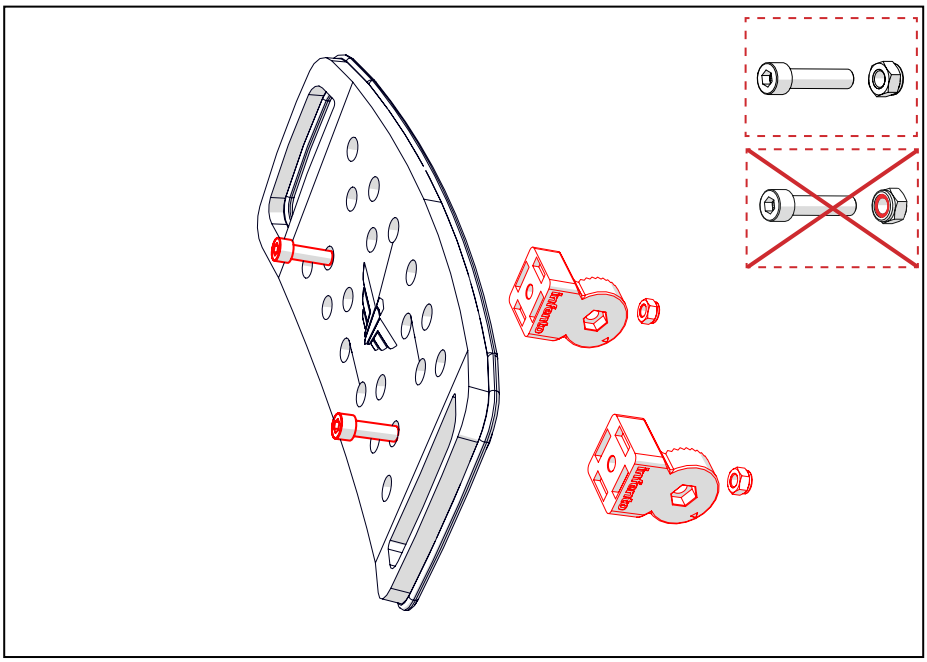


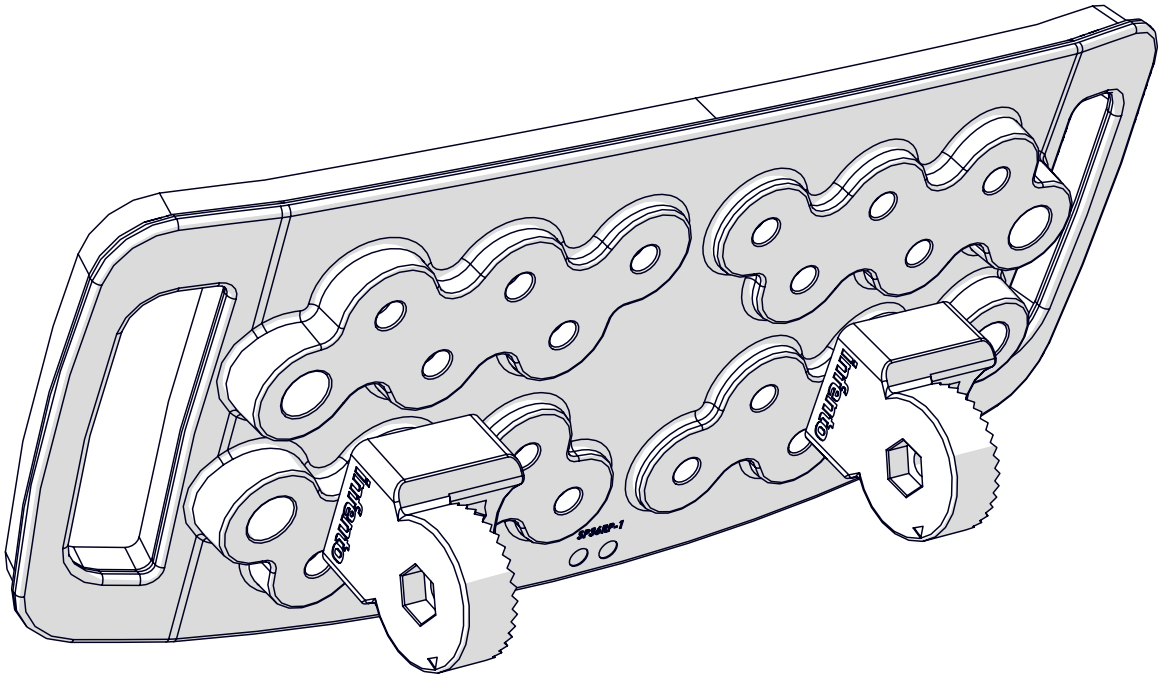


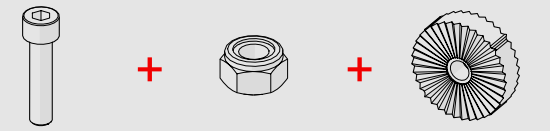




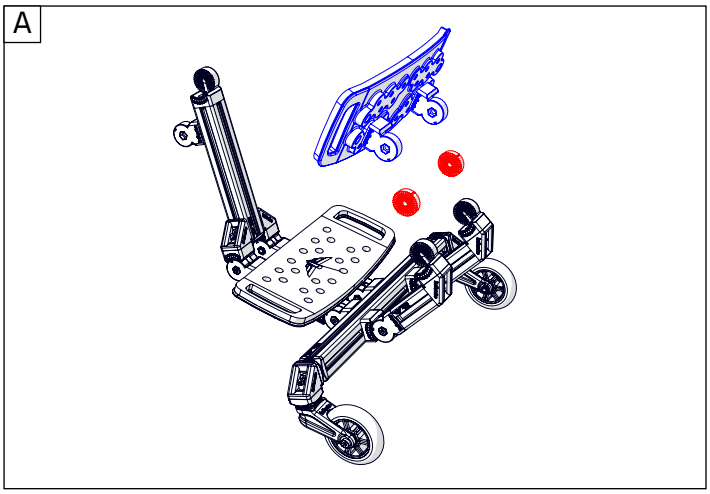
Bolt M8x20 2x + Locknut M8 2x + Multi angle joint 2x + Seatboard 1x



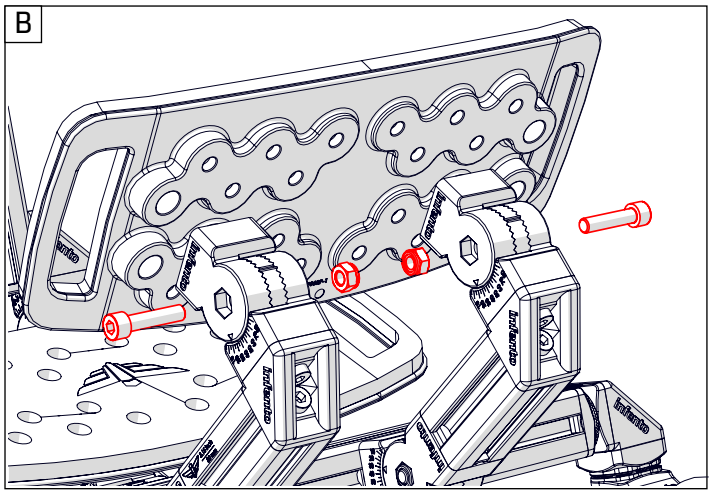




A



B



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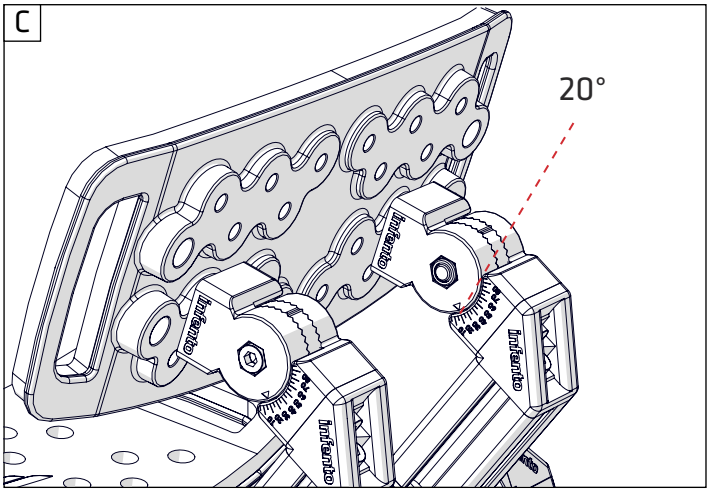
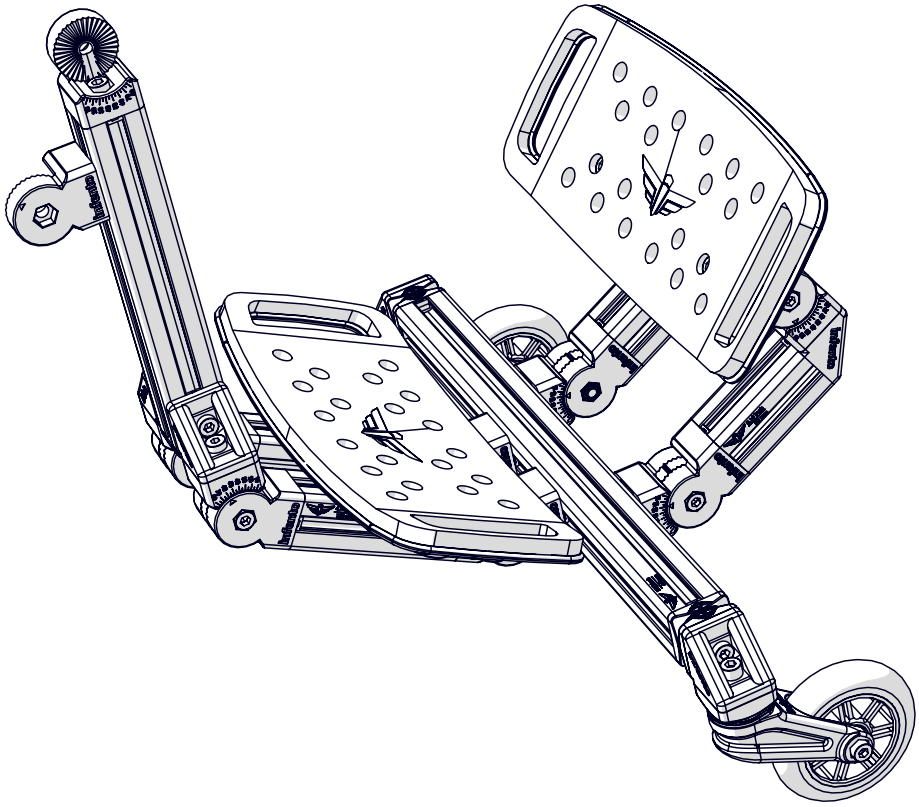
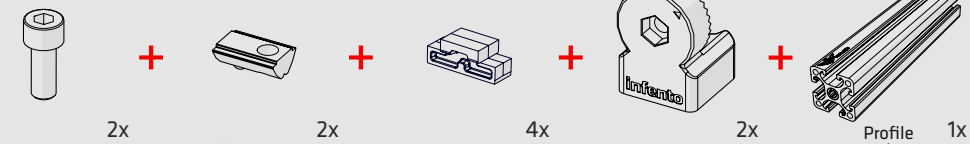


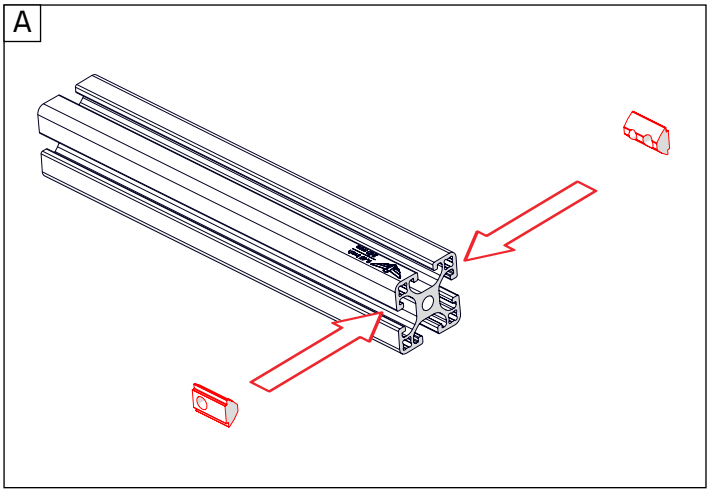


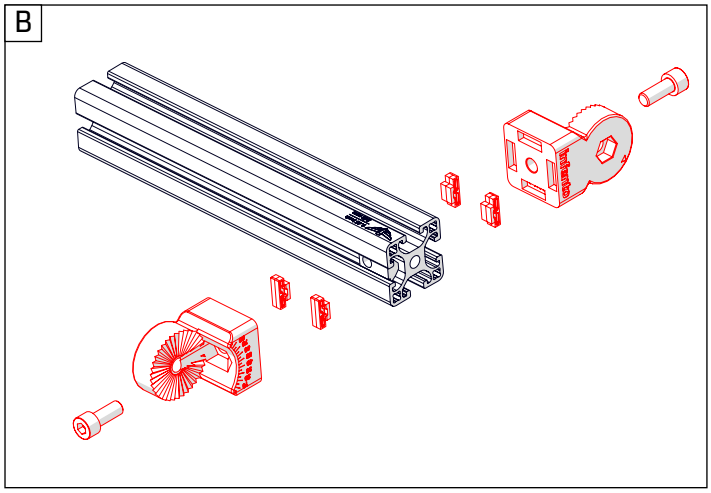
25

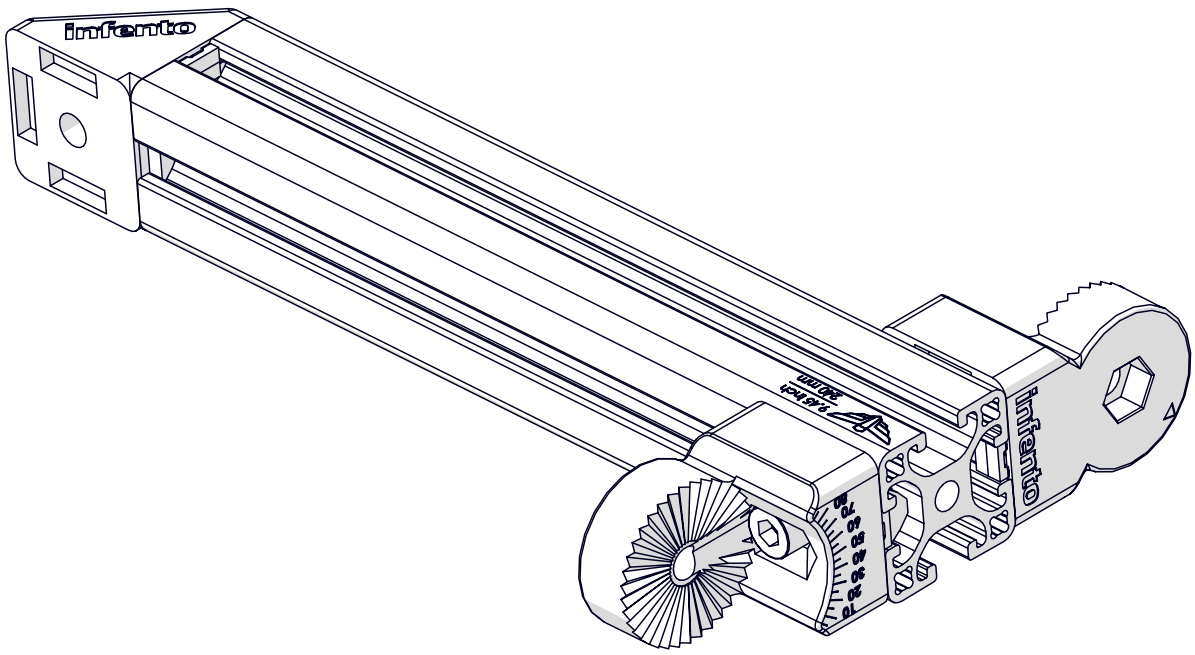
ride ***WHIRL***



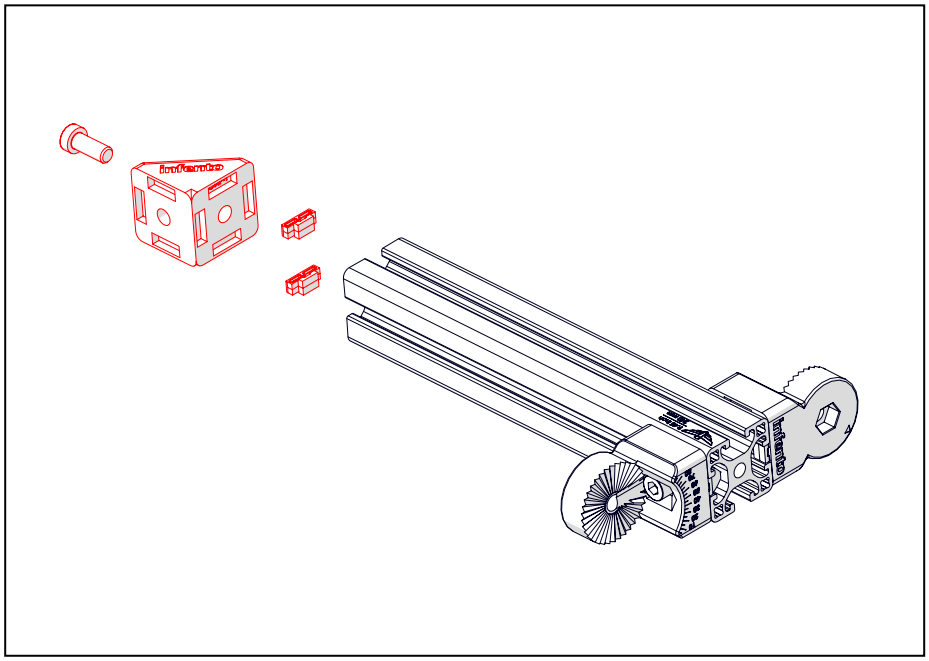
2x Bolt M8x20 + 2x Profile nut short + 4x T-Positioning block + 2x Multi angle joint + Profile 1x 9.45 inch | 240 mm

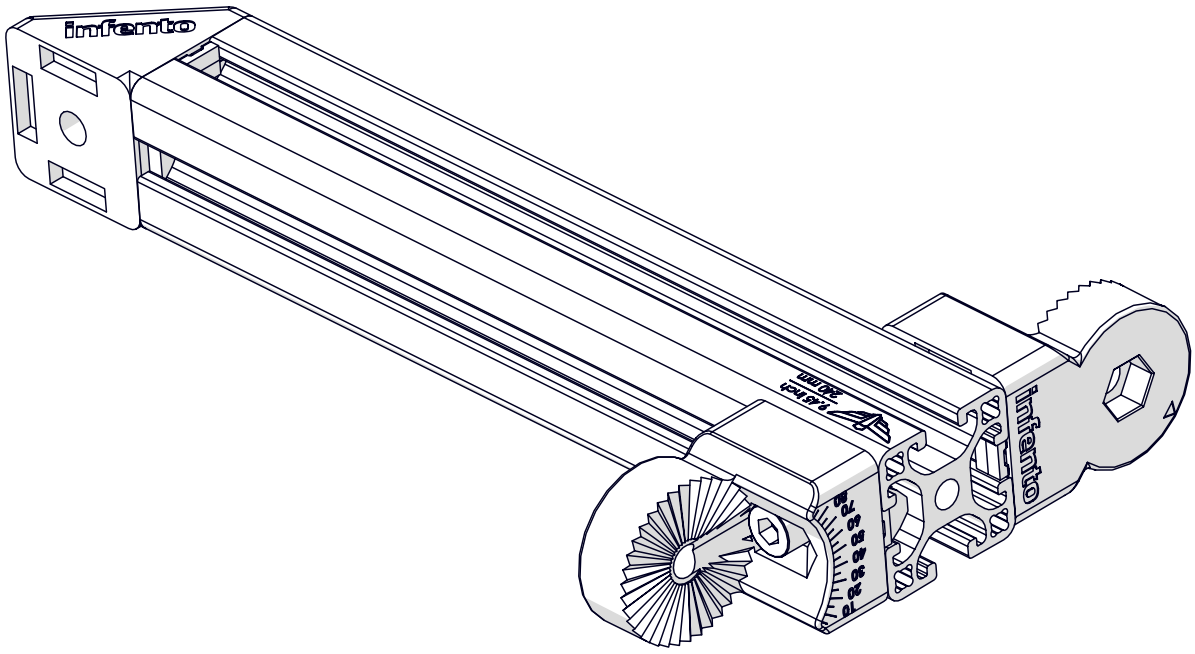


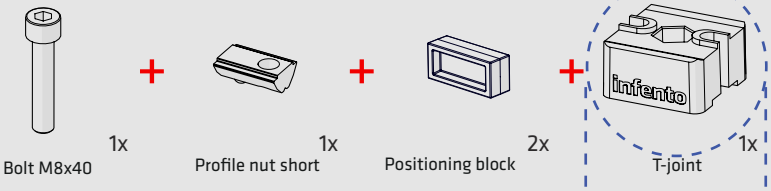




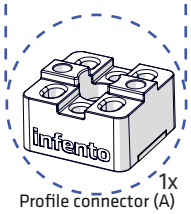
2x T-Positioning block + Bolt M8x20 (low head) 1x + 1x L-joint



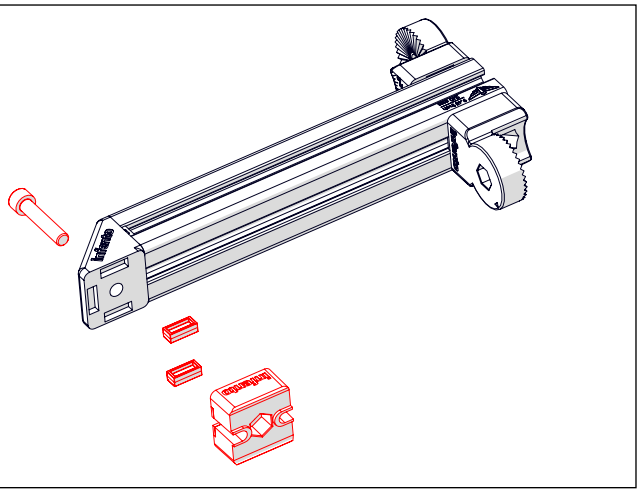




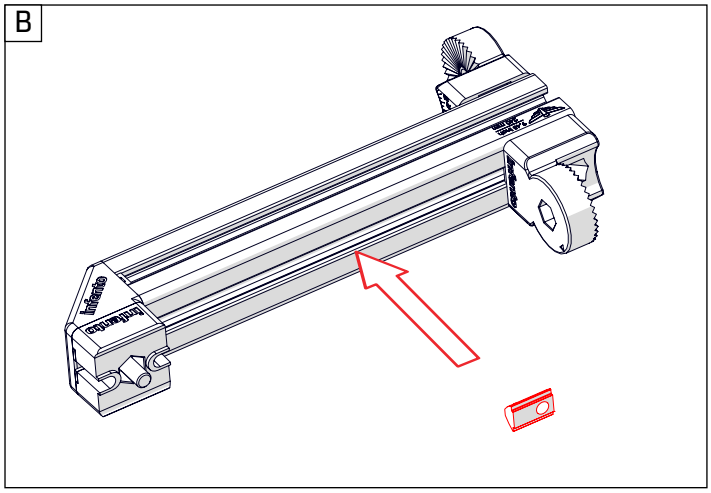
Depending on your Kit, the T-joint might look like this. The new T-joint doubles as a profile connector (part A)

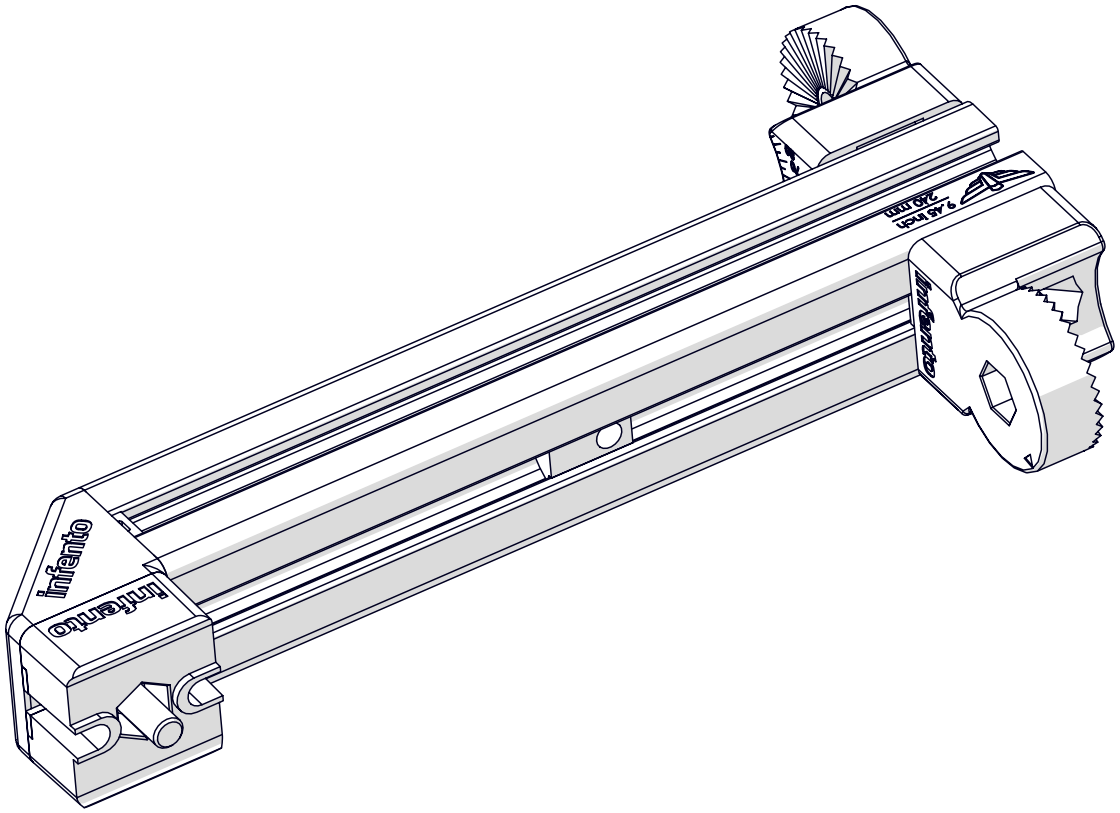


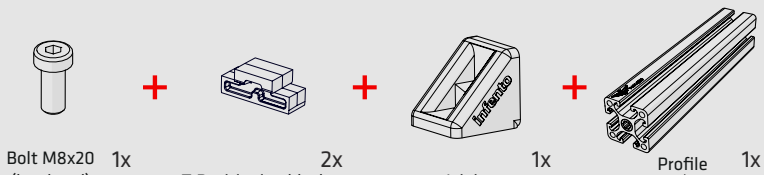
A

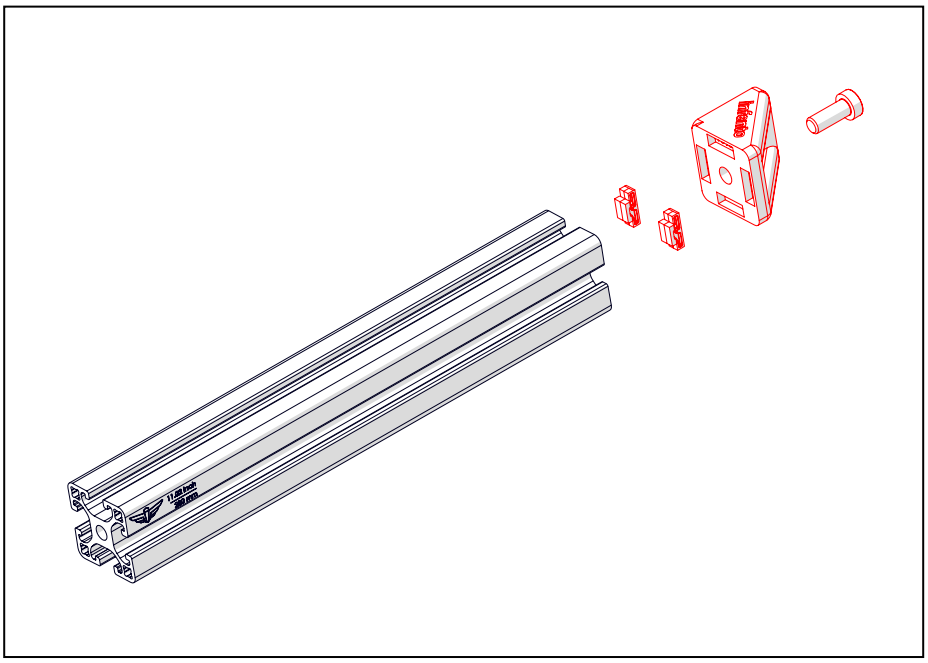


B

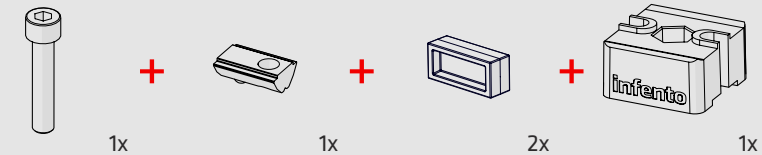




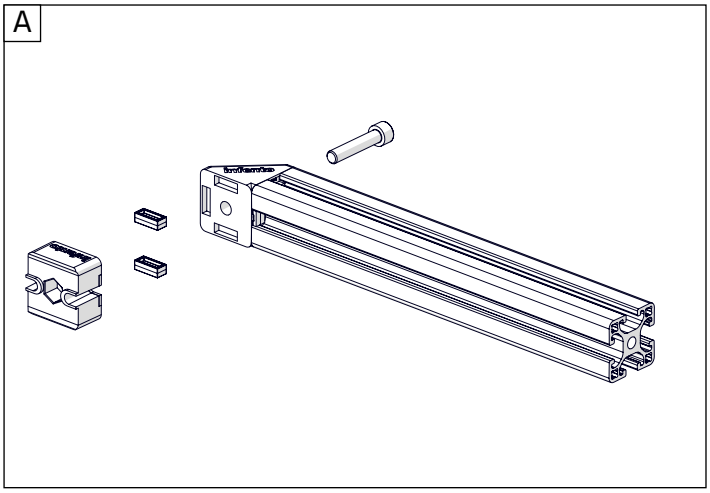

Bolt M8x20
(low head) 1x
2x
T-Positioning block
1x
L-joint
Profile 1x
11.02 inch | 280 mm

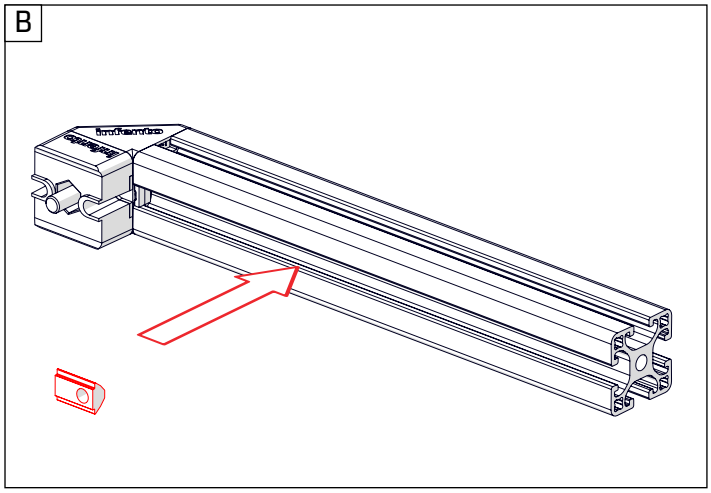


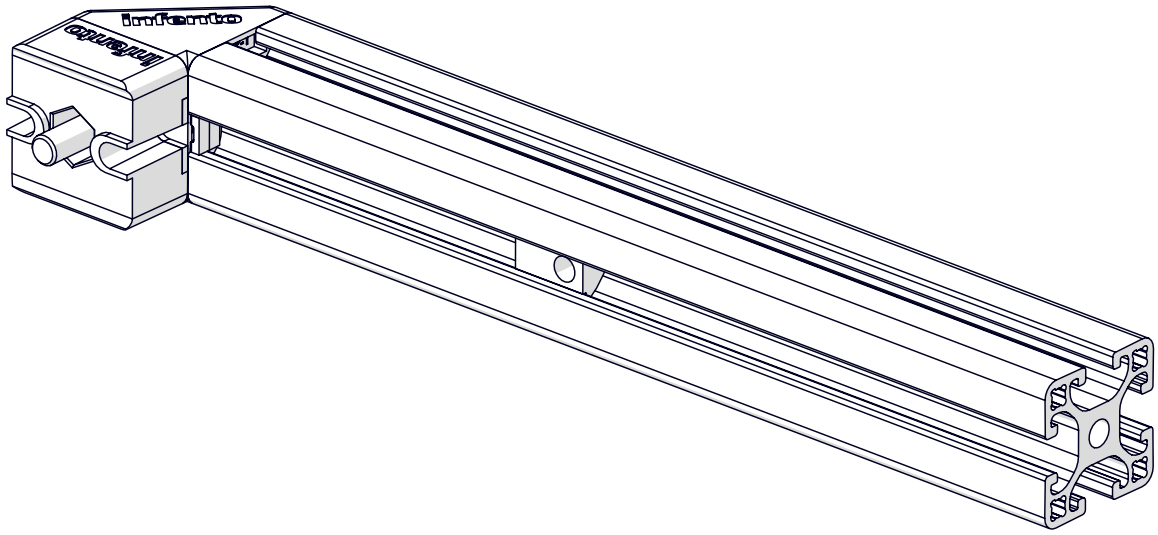
11.02 inch
280 mm



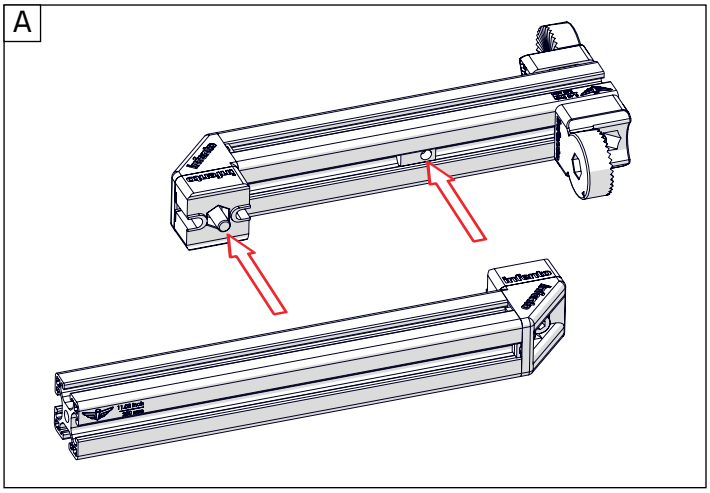
1x Bolt M8x40 + 1x Profile nut short + 2x Positioning block + 1x T-joint



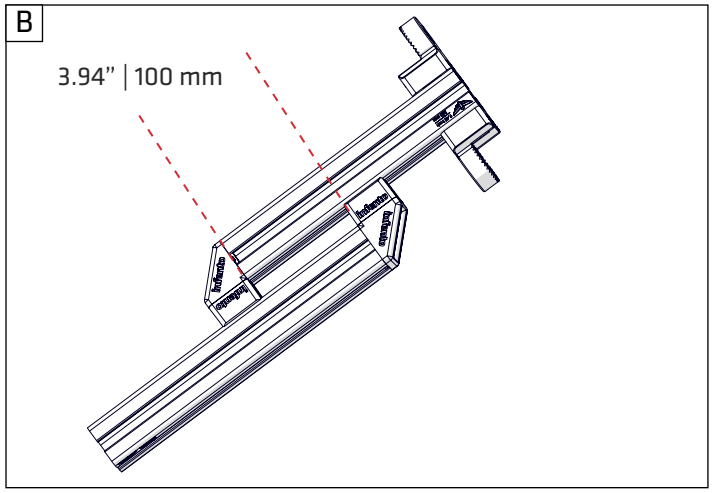


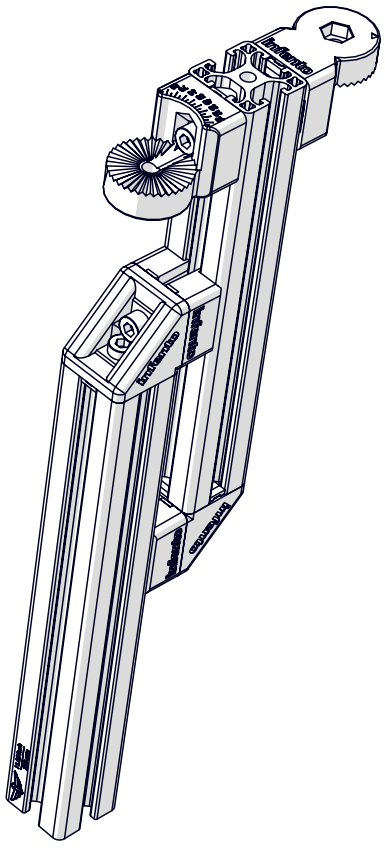


A

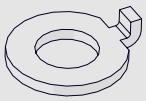


B



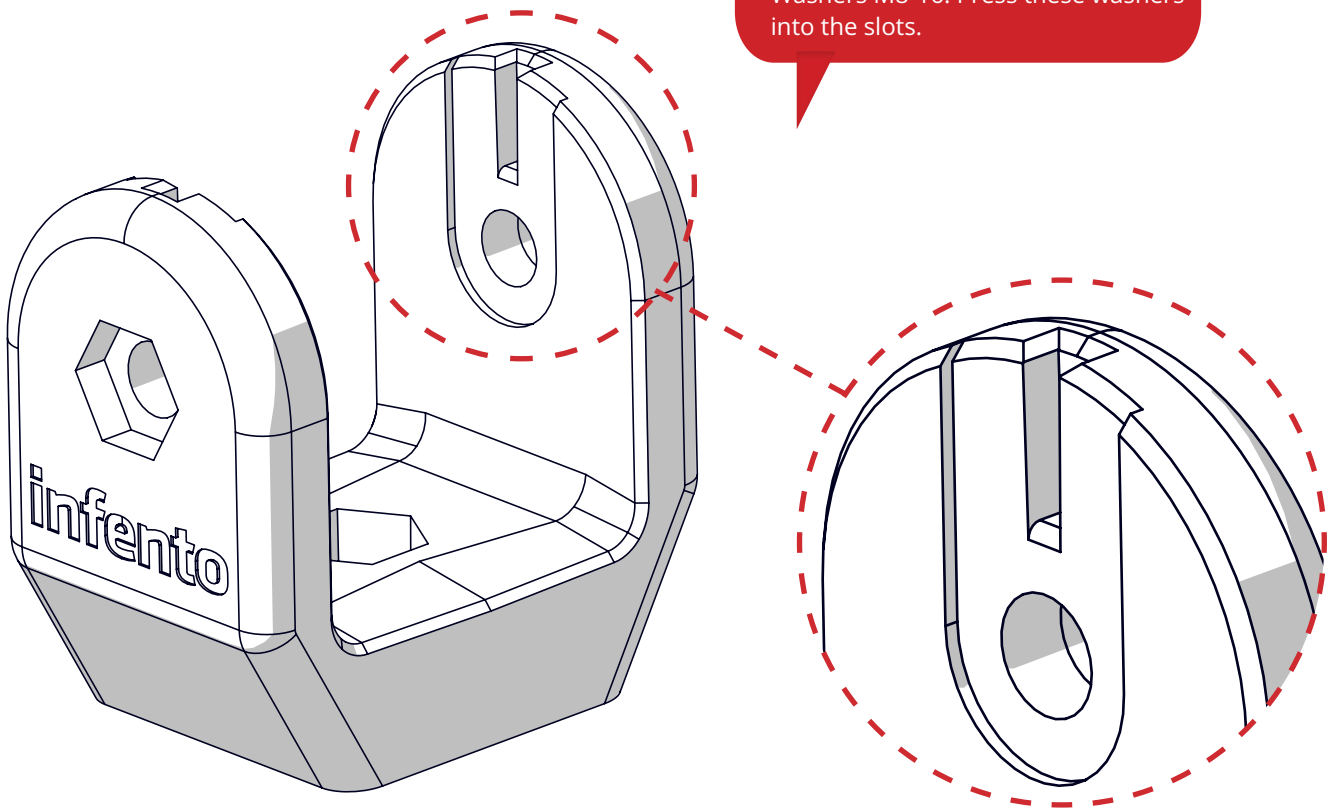


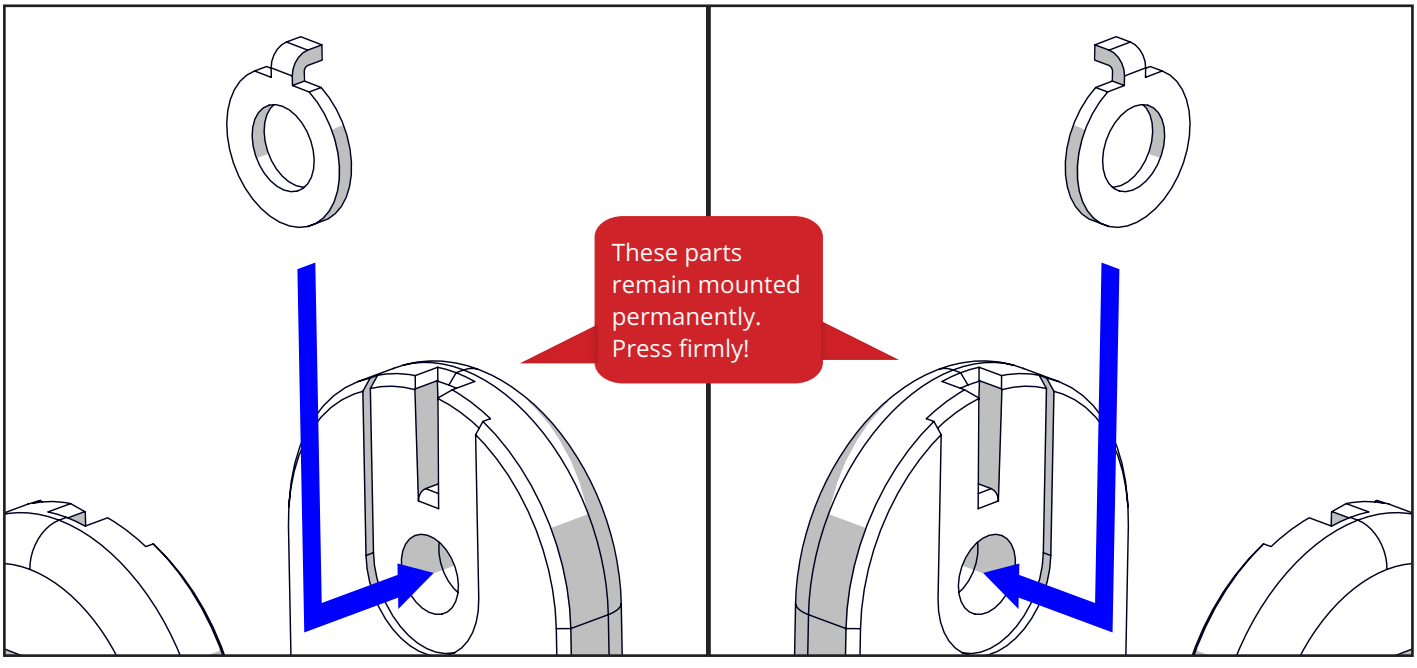
If your Kit contains a white fastener bag with 12 Nock Washers, please follow the steps on this page. If not, please skip to the next page of the manual.



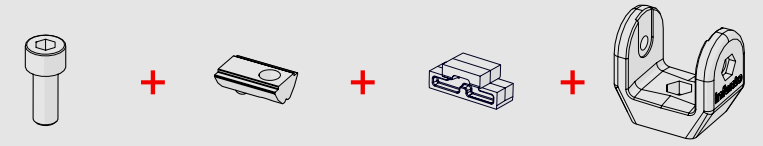
2x
Nock washer M8-16

This is the U-block. Before being able to use this part, you need two Nock Washers M8-16. Press these washers into the slots.





These parts remain mounted permanently. Press firmly!



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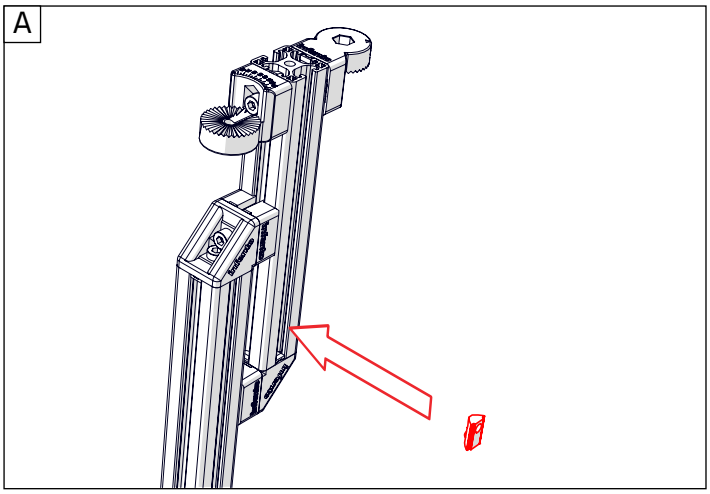
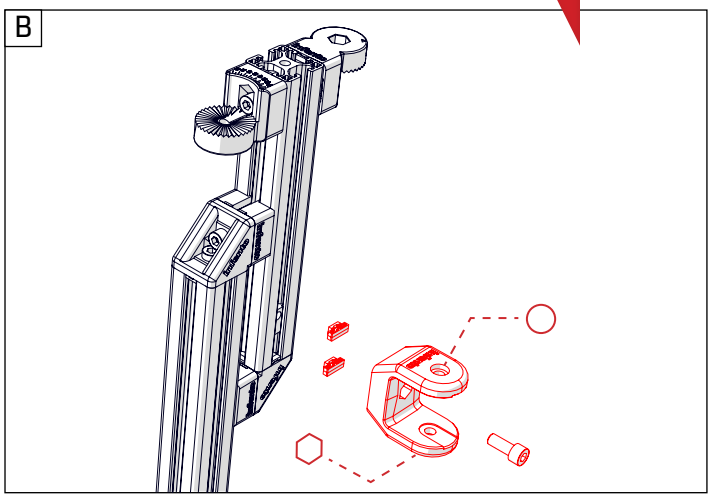
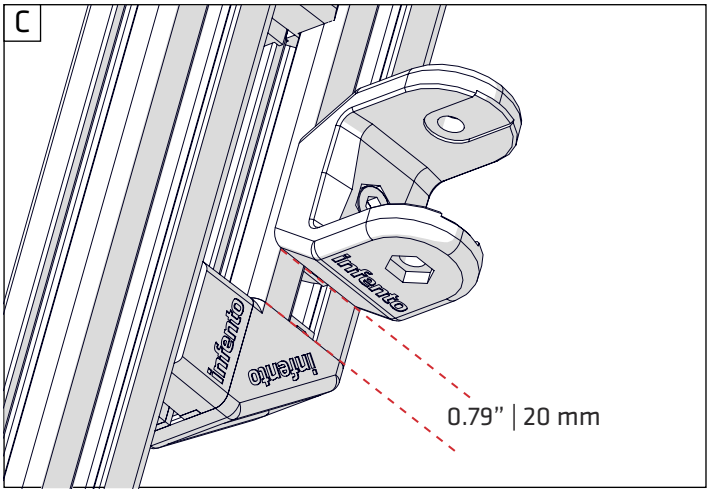


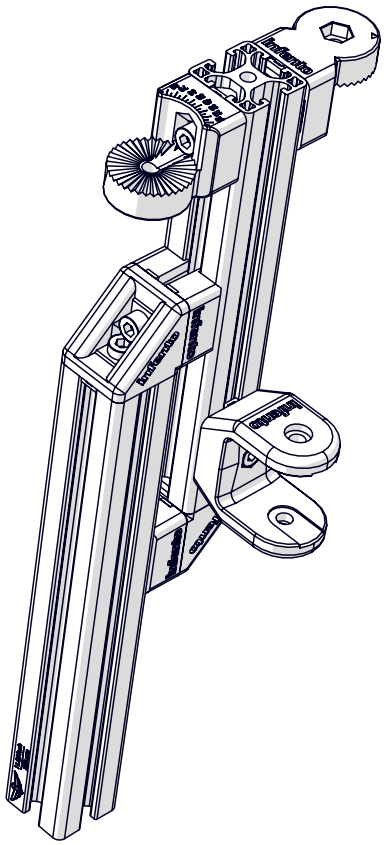
If your U-block or Kit doesn't have the M8-16 Nock Washers, you can use the regular M8-16 washers as shown here.

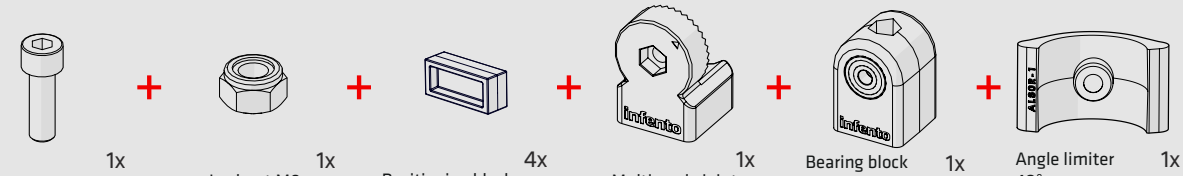
B

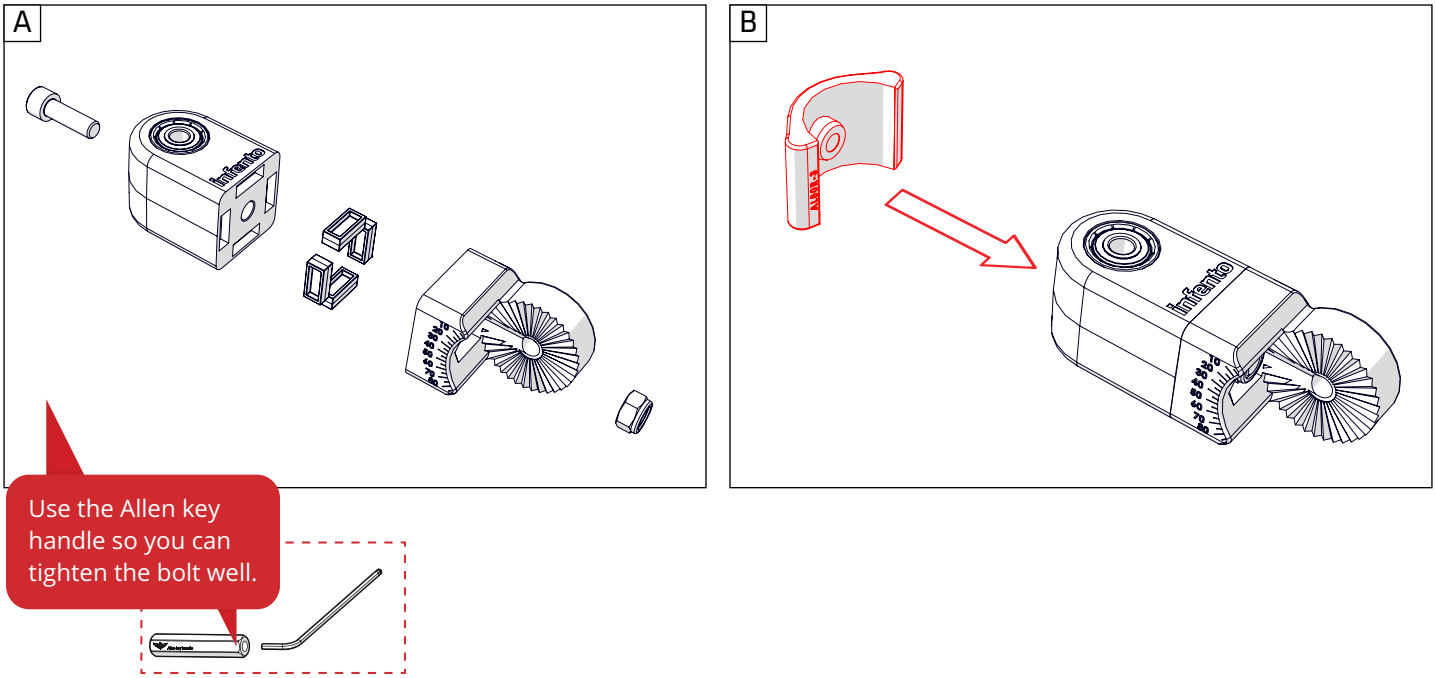


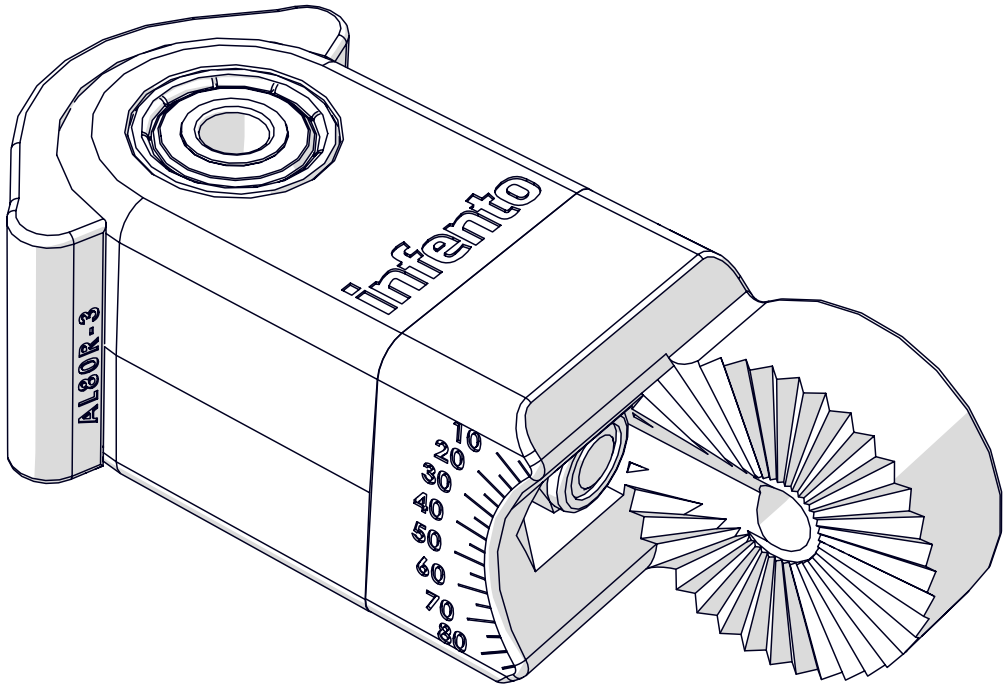
C



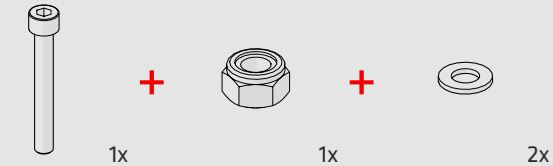



Bolt M8x25
1x
Locknut M8
1x
Positioning block
4x
Multi angle joint
1x
Bearing block
40x40_8
1x
Angle limiter
40°
1x


A
B
Use the Allen key handle so you can tighten the bolt well.

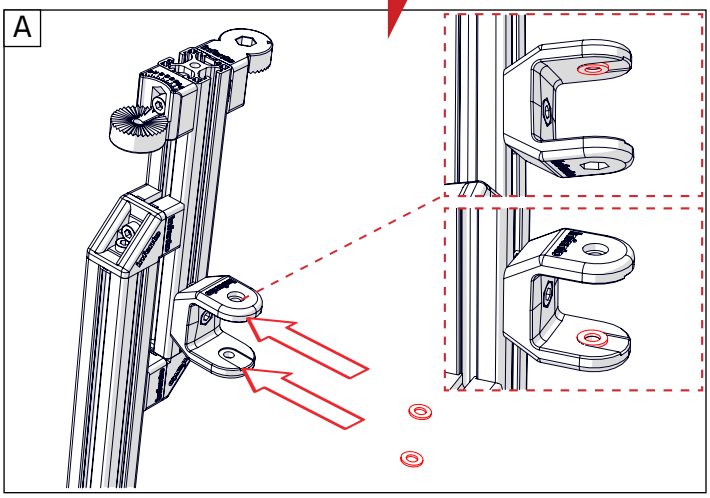

infiento
AL80R-3
10
20
30
40
50
60
70
80

If your U-block or Kit doesn't have the M8-16 Nock Washers, you can use the regular M8-16 washers as shown here.



1x Bolt M8x60 + 1x Locknut M8 + 2x Washer M8-16

A



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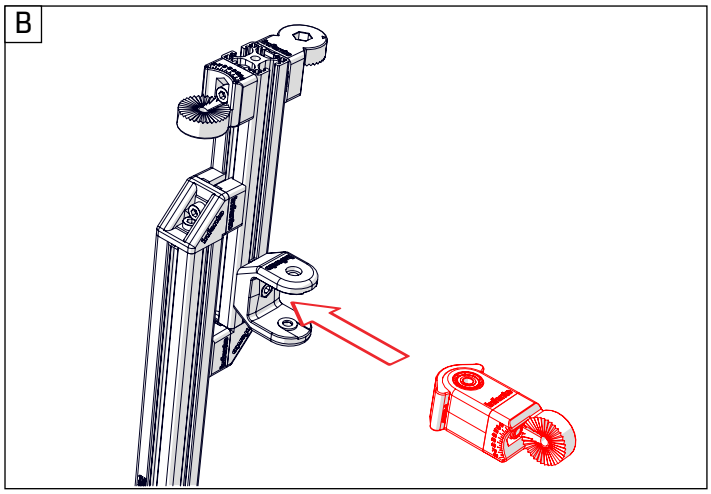

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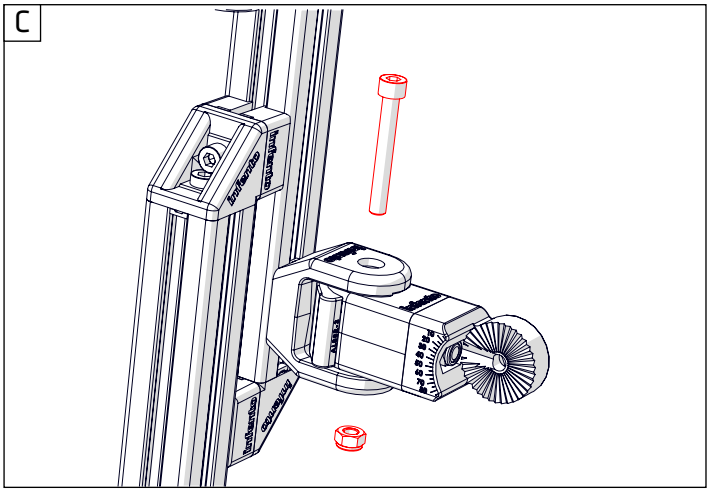
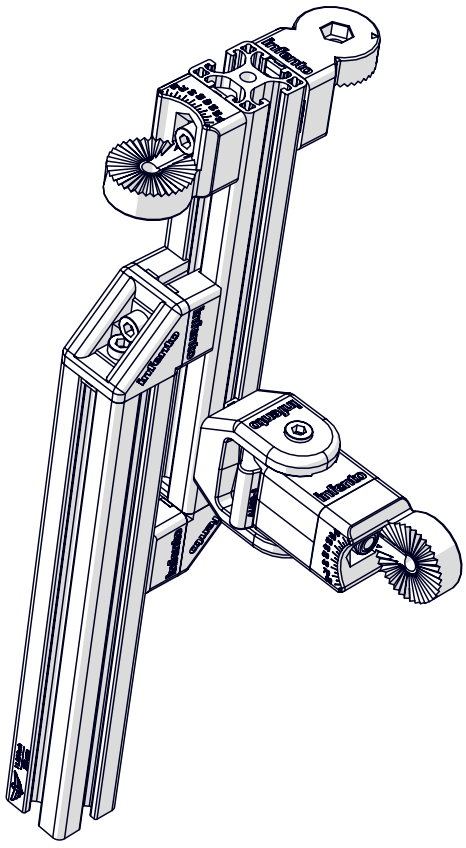
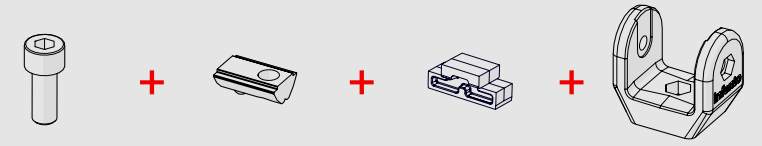




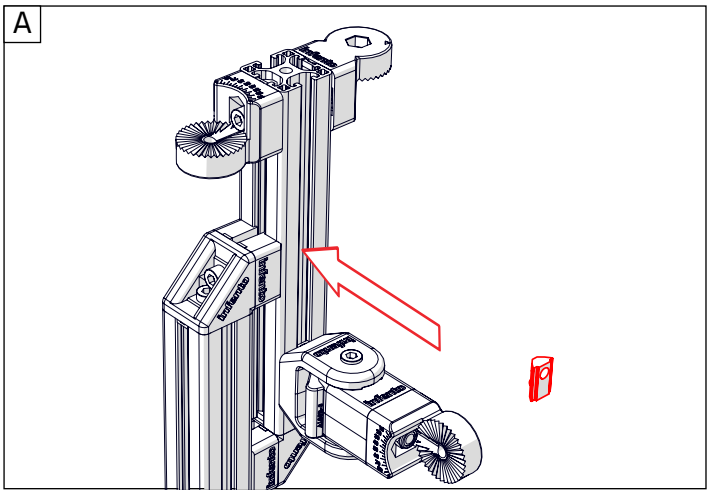
35

ride ***WHIRL***



1x Bolt M8x20 + 1x Profile nut short + 2x T-Positioning block + 1x U-Block

A



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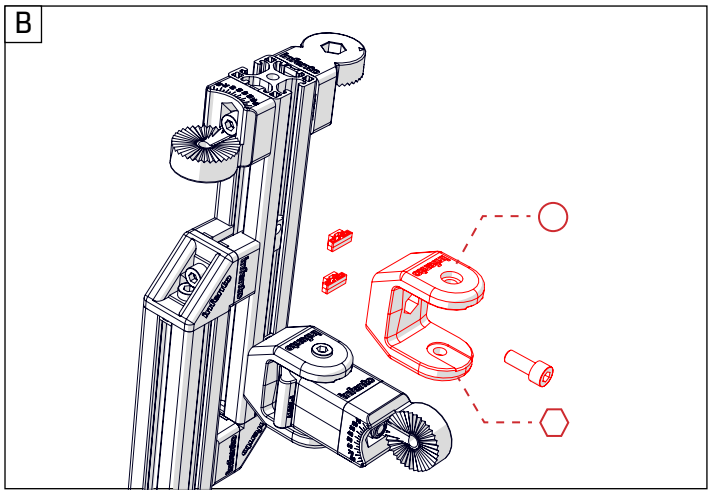

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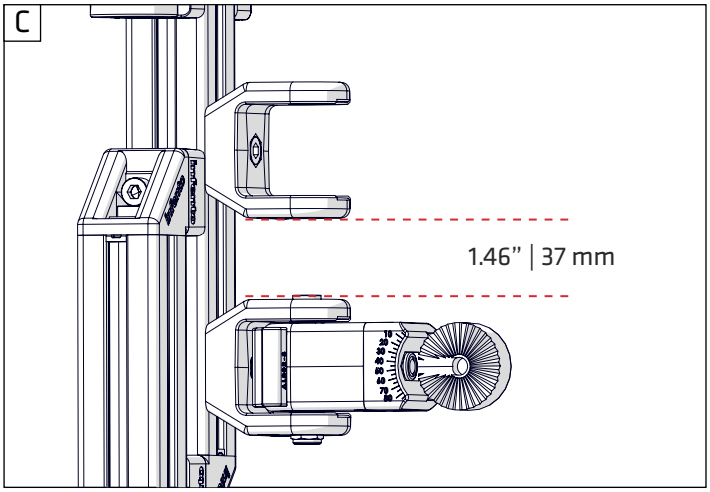
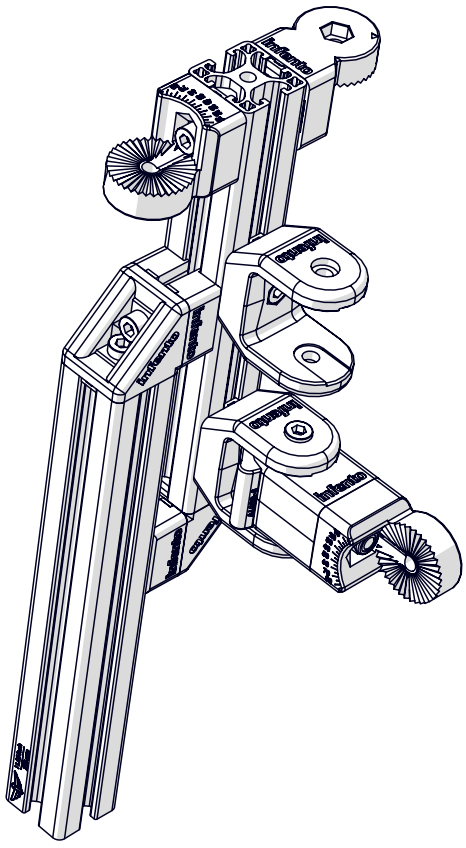
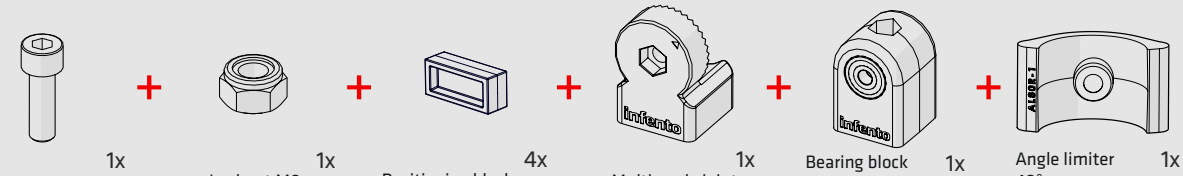
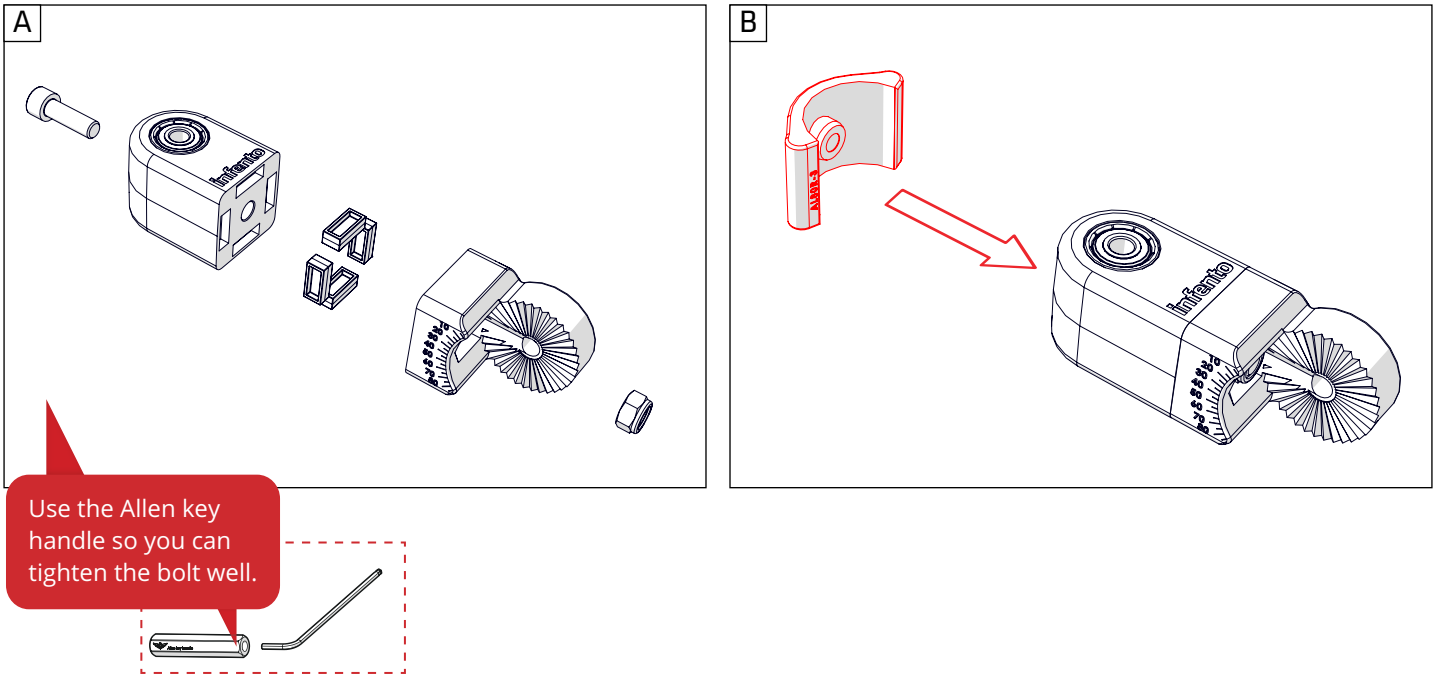
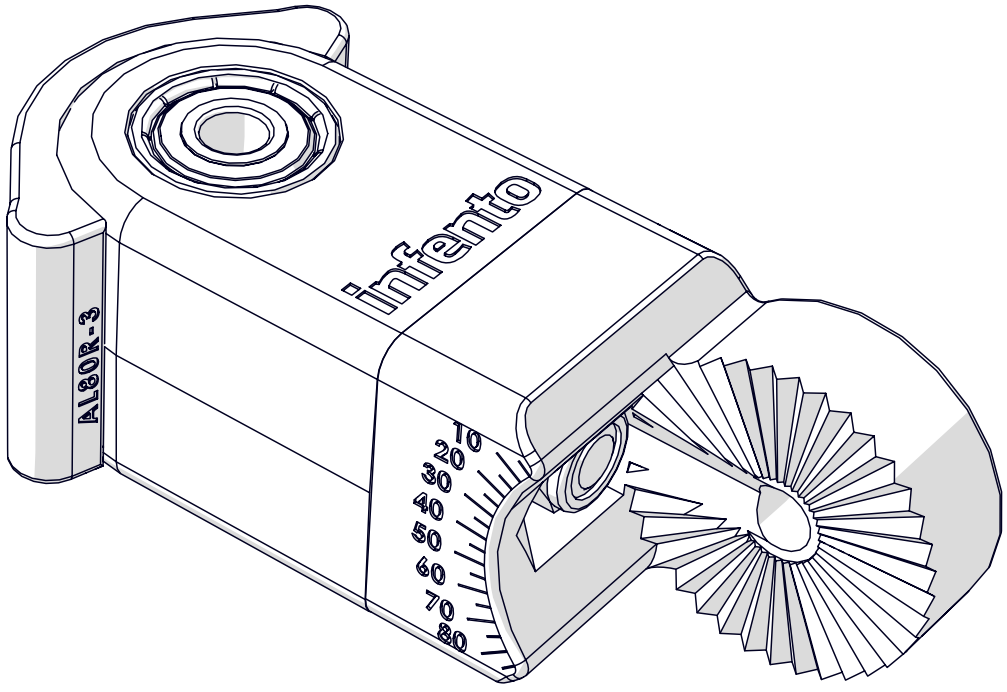




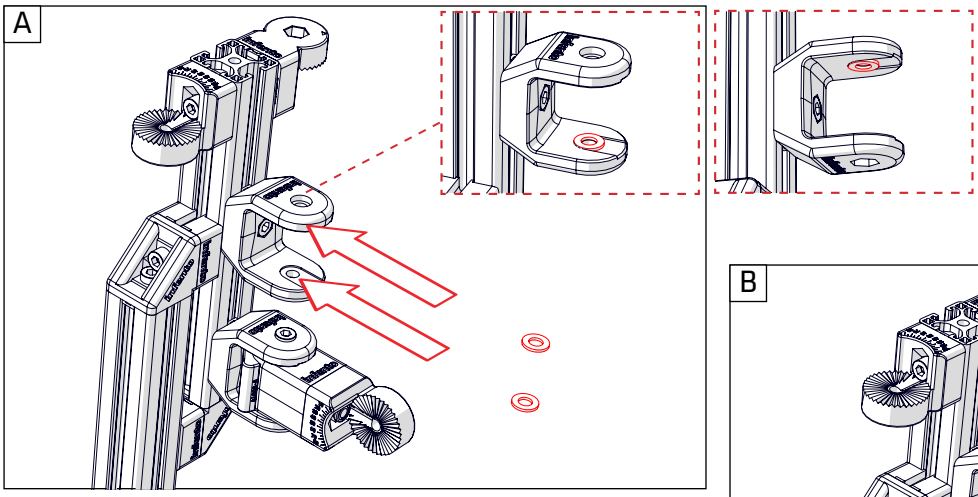




Use the Allen key handle so you can tighten the bolt well.



A



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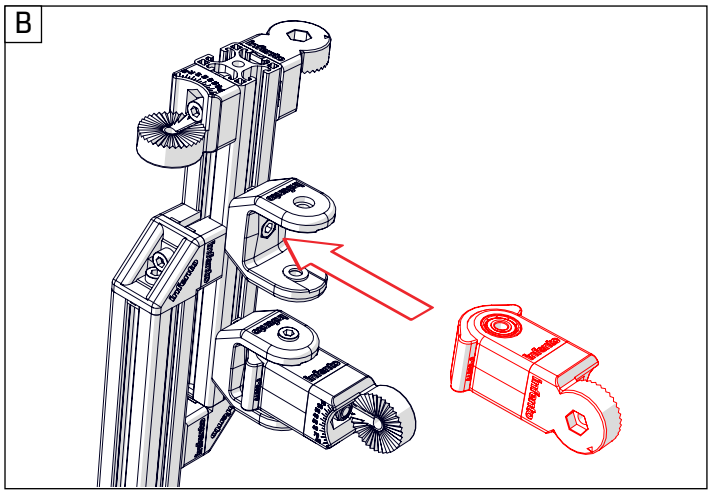

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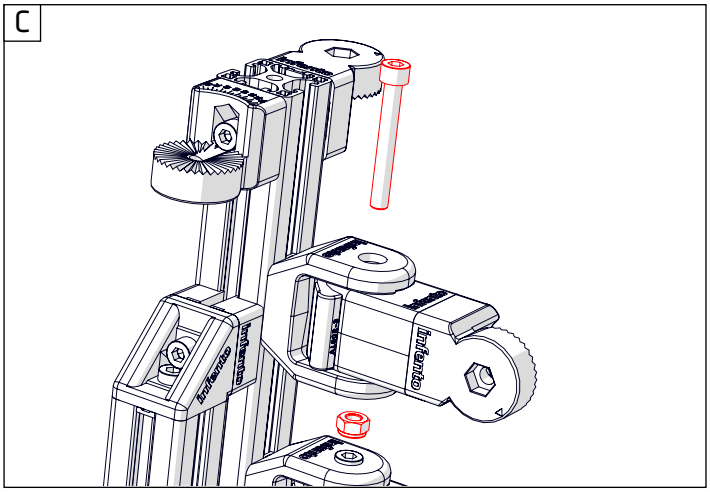
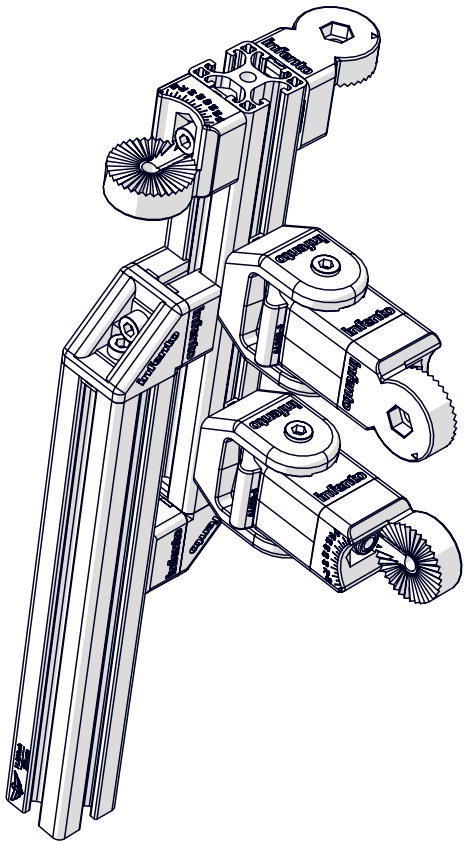
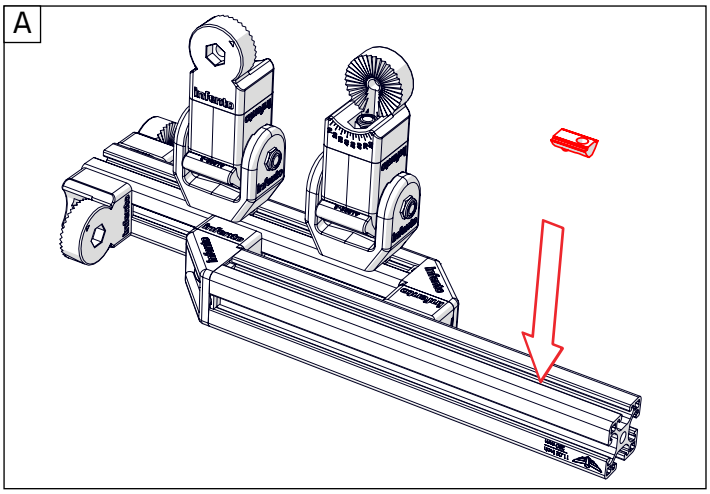




Bolt M8x20 (low head) 1x + Profile nut short 1x + T-Positioning block 2x + L-joint 1x

A



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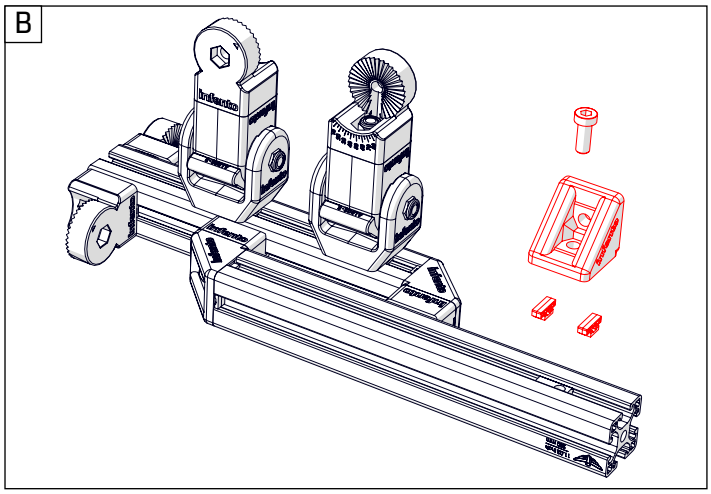

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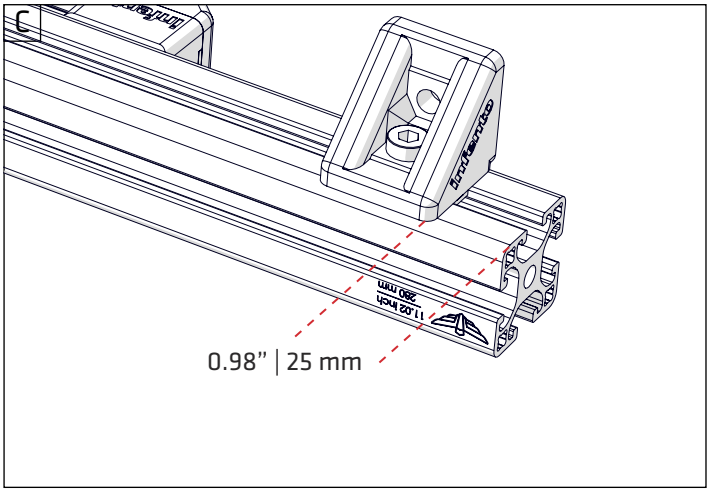
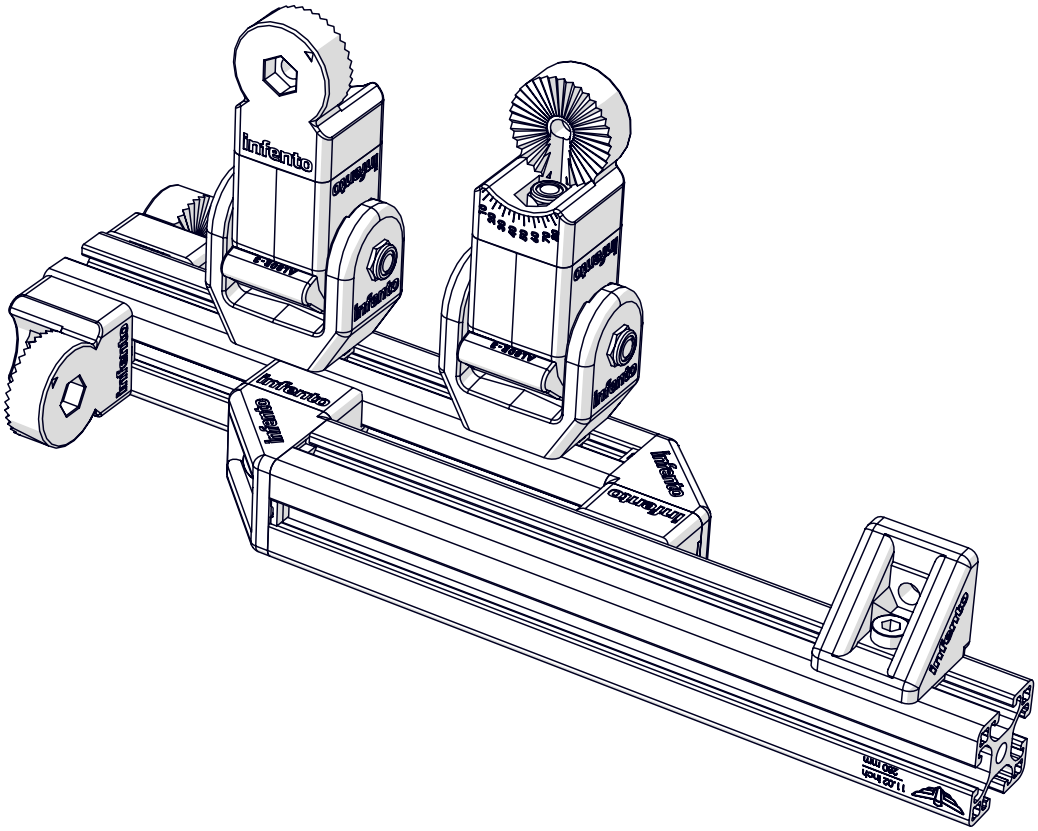
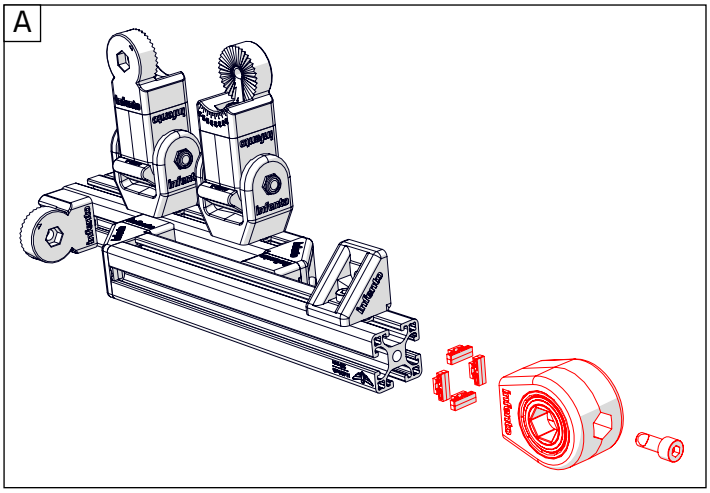




1x Bolt M8x20 nylock + 4x T-Positioning block + 1x Bearing protection cap + 1x Bearing block 40x40_Hexa 19

A



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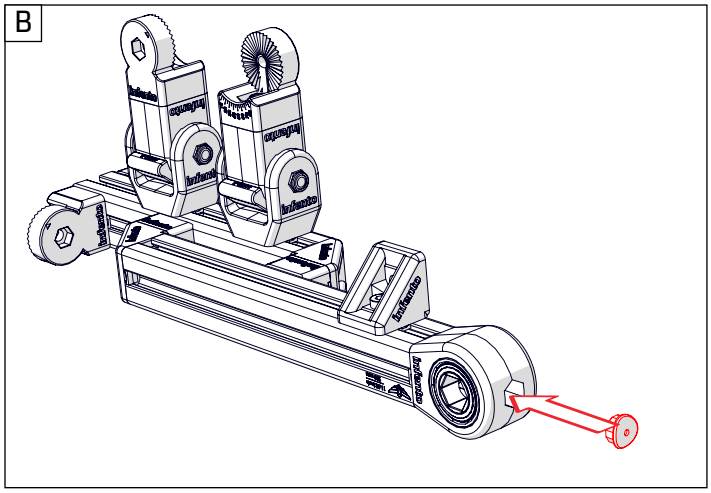
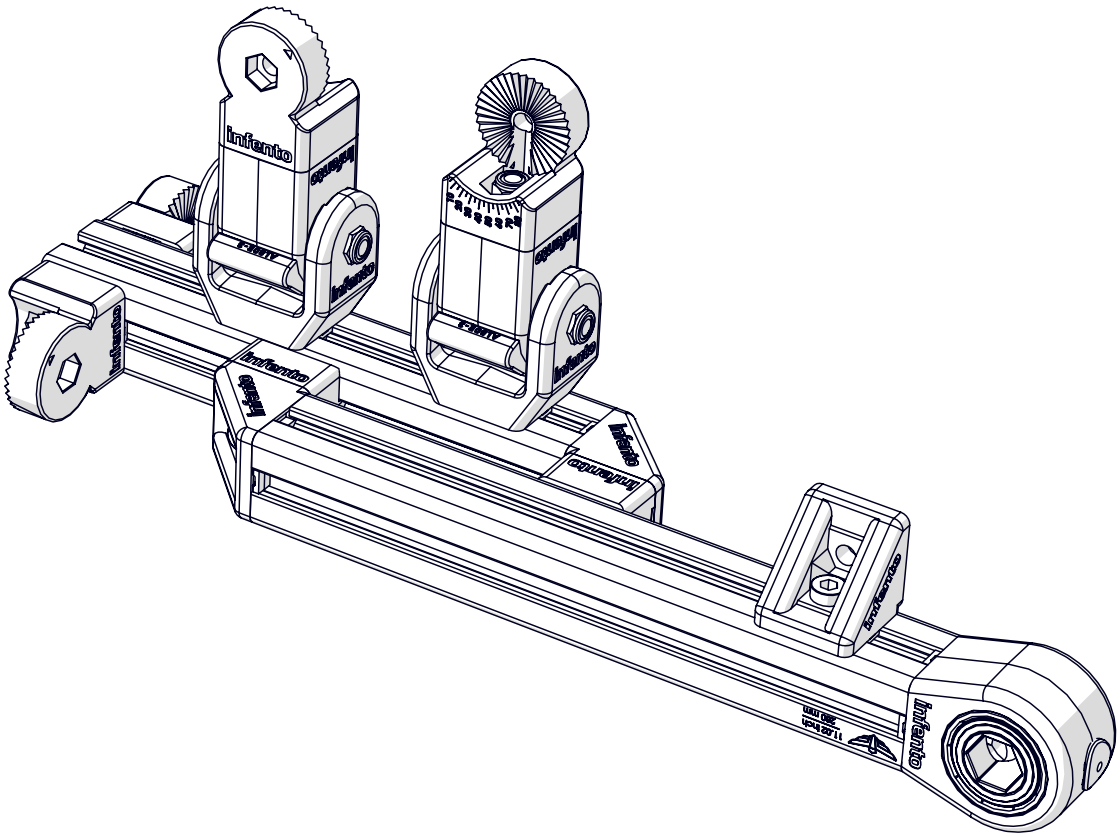
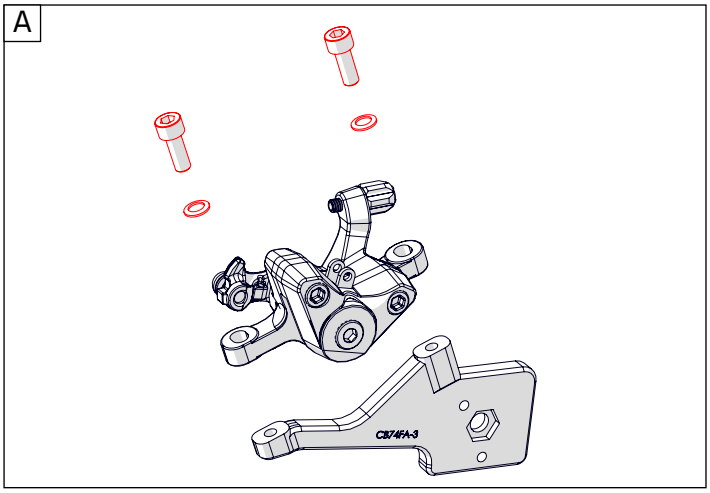


Use the Allen key handle so you can tighten the bolt well.

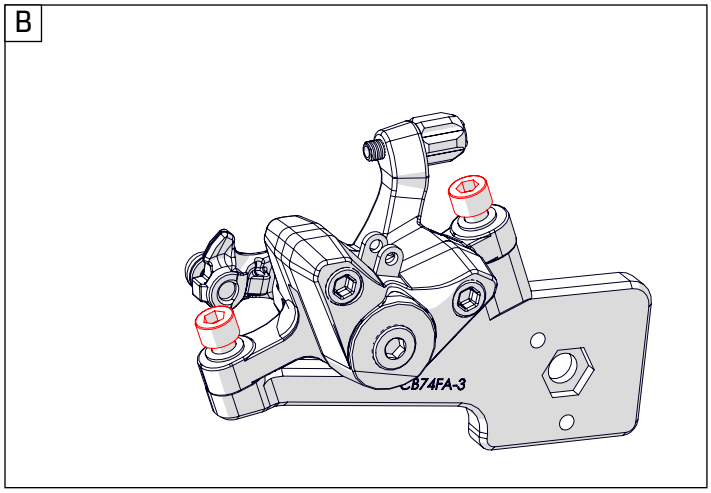


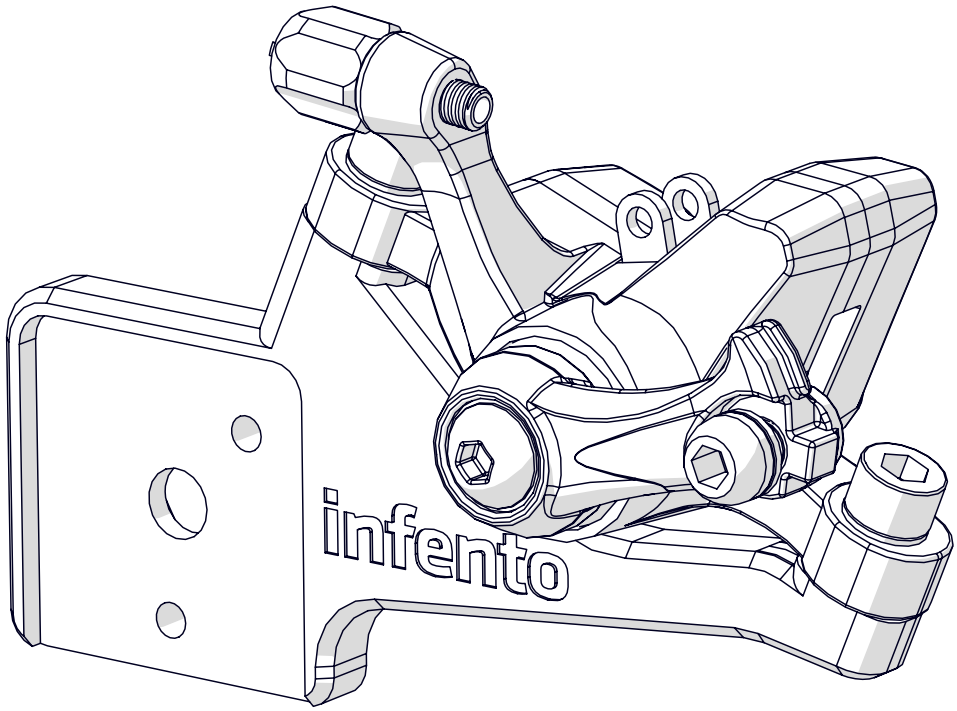
Bolt M6x16 2x + Conical spring washer M6-10 2x + 1x Brake caliper holder + 1x Brake caliper

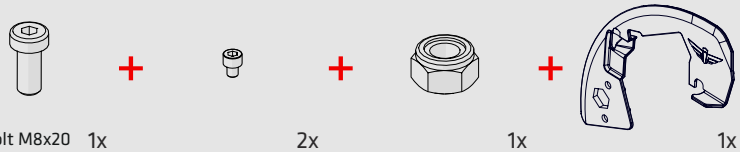
A



B

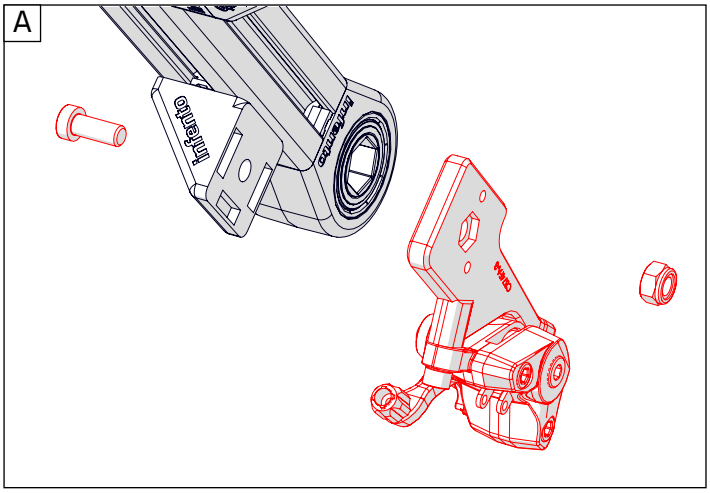




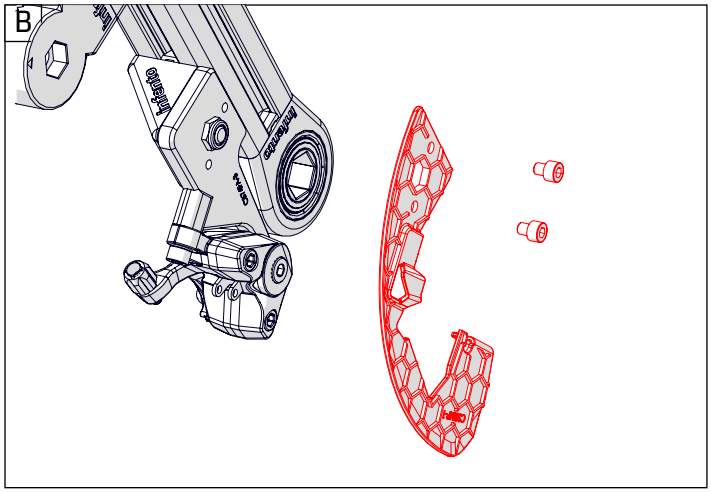


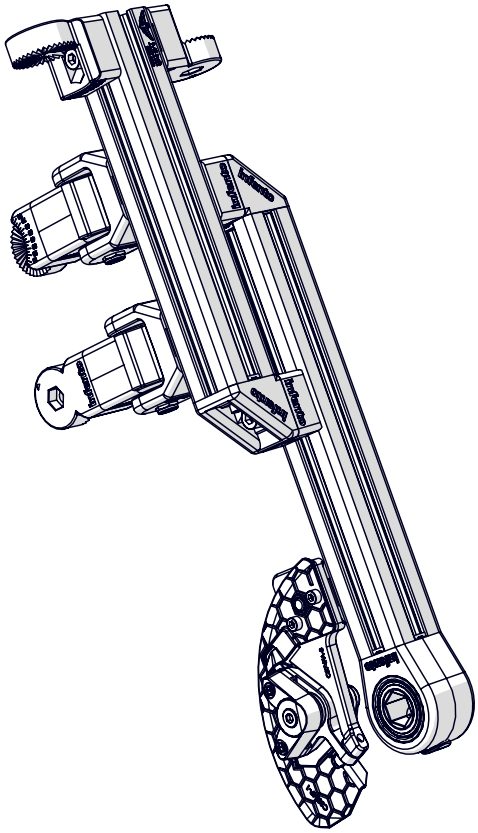
Bolt M8x20 (low head) 1x + Bolt M5x6 2x + Locknut M8 1x + Caliper shield 1x

A



B





42

ride *WHIRL*

Bolt M8x20 1x

Spacer 0.04inch | 1 mm 1x

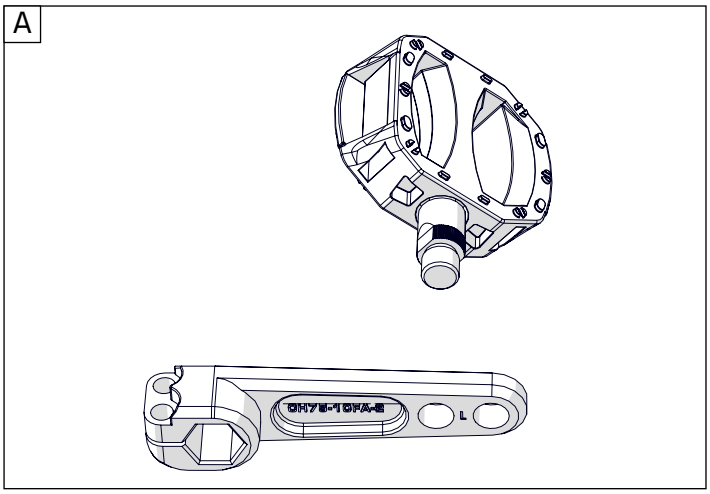
Washer M8-24 1x

Axle 6.54 inch | 166 mm 1x

Pedal left 1x

Crank large left 1x

A



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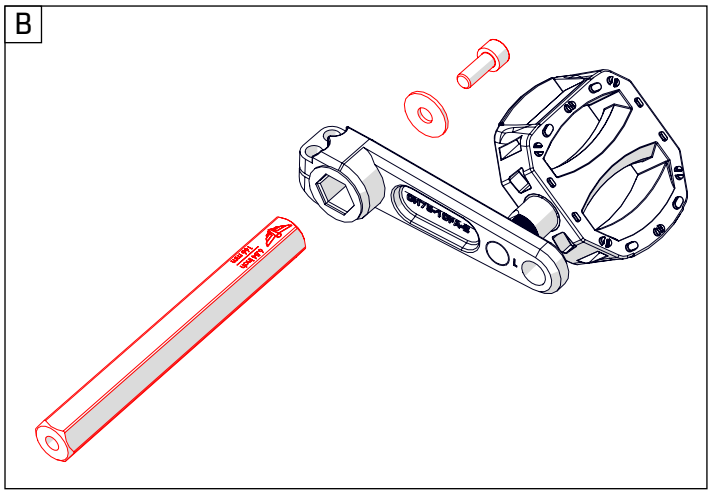

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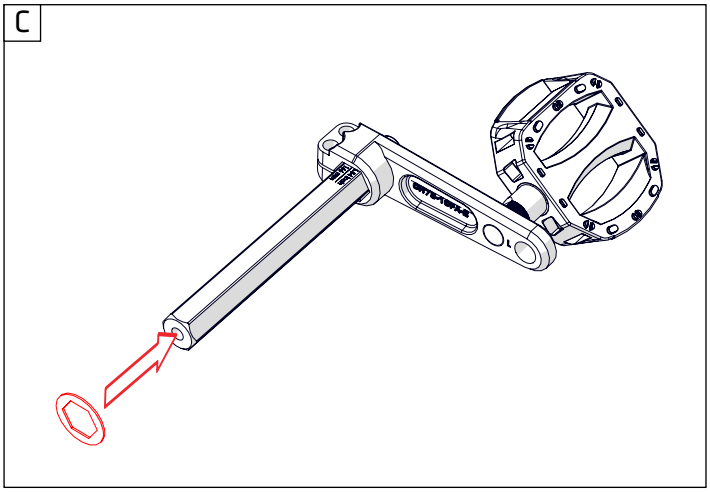
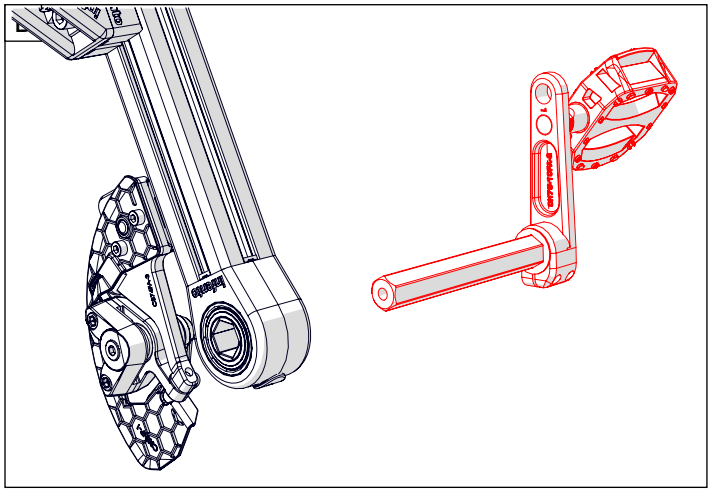
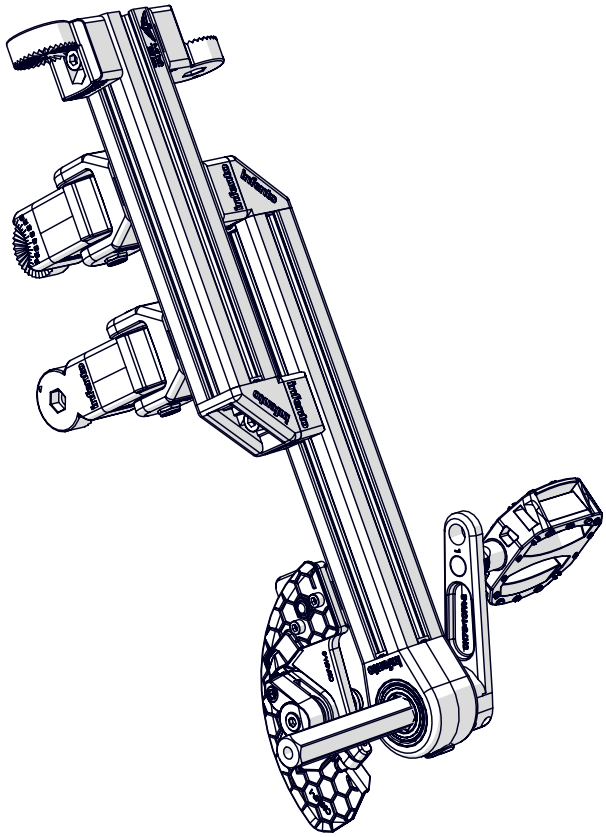


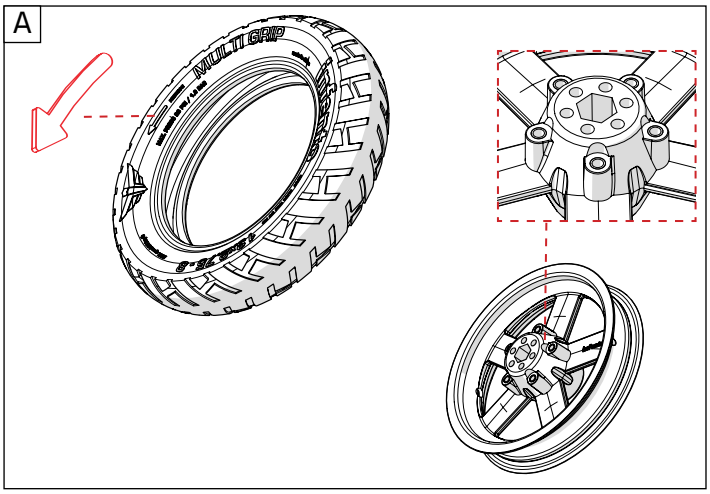
D



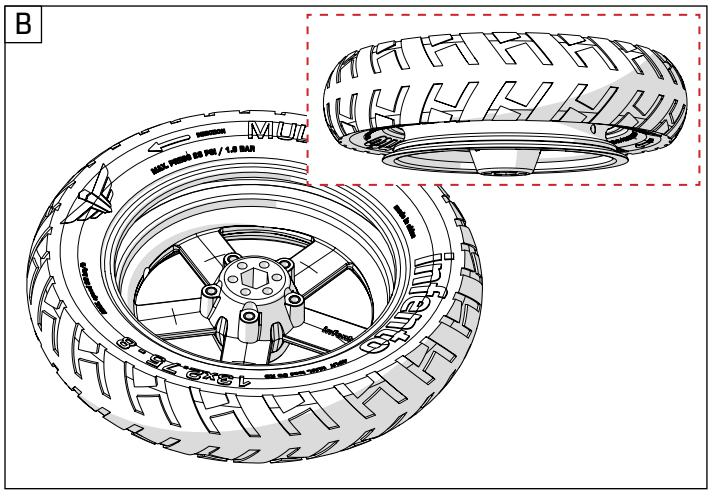


Inner tube
13x2.75-8
1x
+
Tire
13x2.75-8
1x
+
8 inch
Driven rim
1x

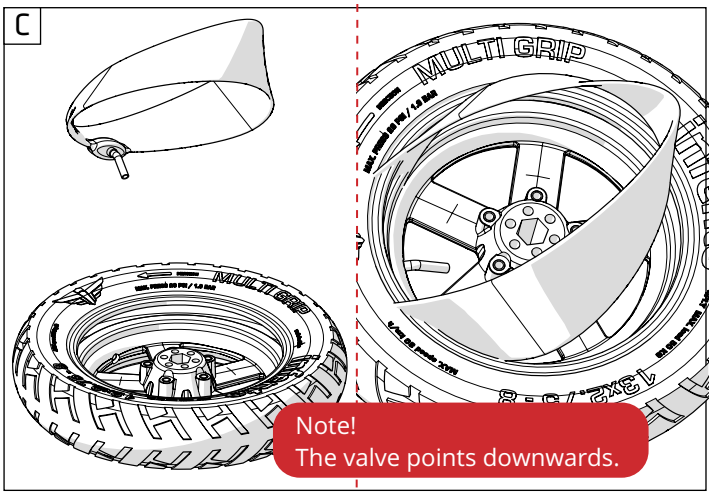
A


MULTI GRIP

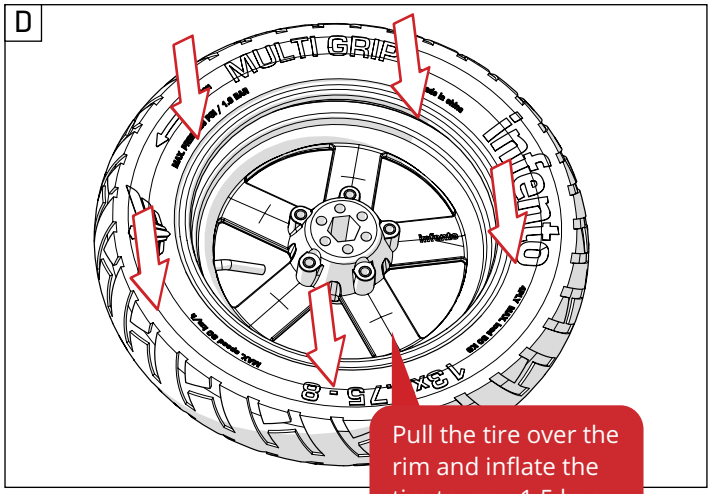
B

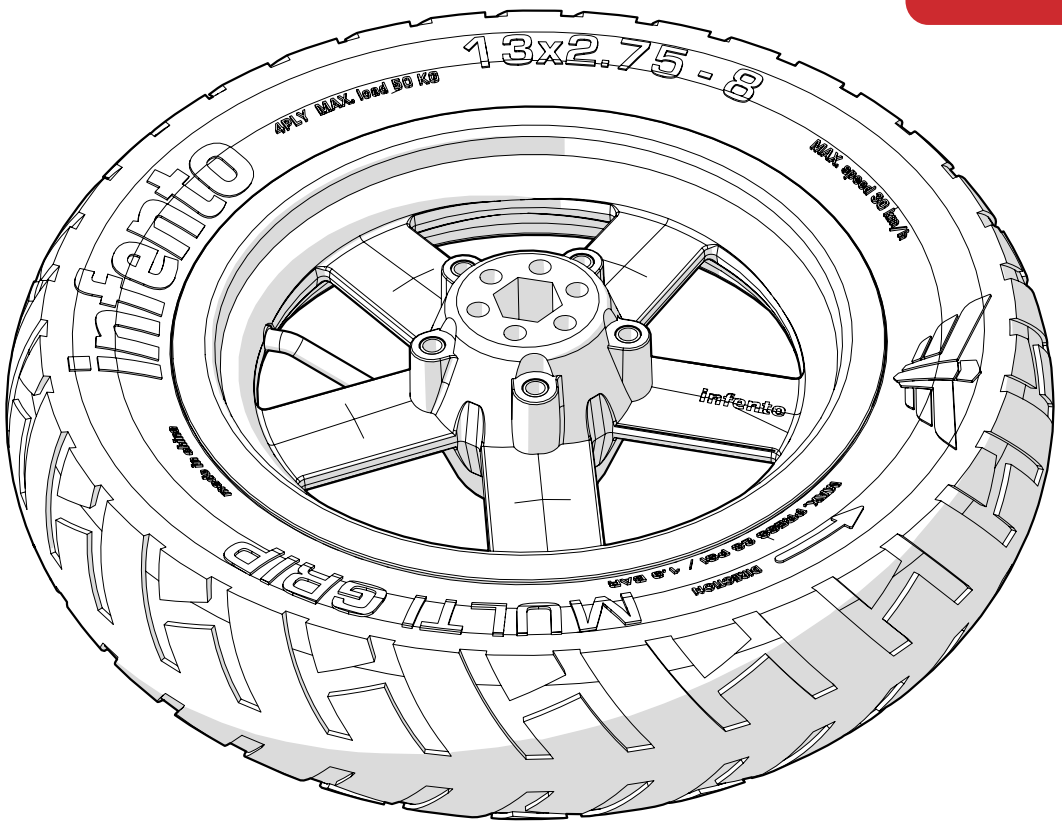


C


MULTI GRIP
Note!
The valve points downwards.

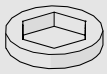
D


MULTI GRIP
Pull the tire over the rim and inflate the tire to max 1.5 bar.


13x2.75-8
4PLY MAX. load 80 KG
MULTI GRIP

44

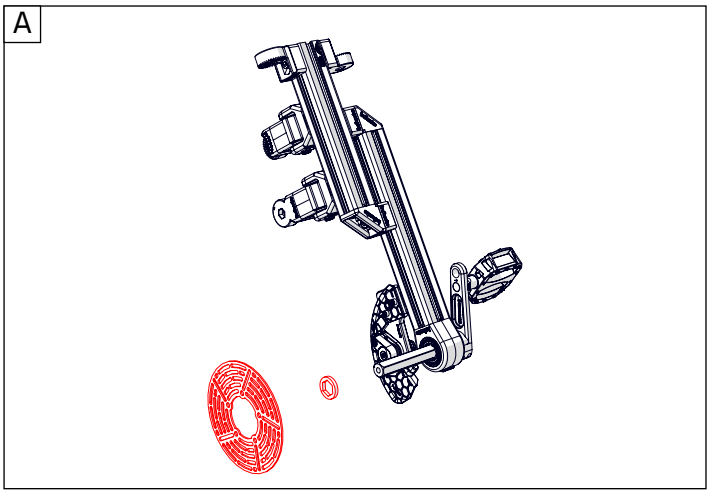
ride ***WHIRL***



Spacer 1x
0.2 inch | 5 mm

1x
Brake disc

A



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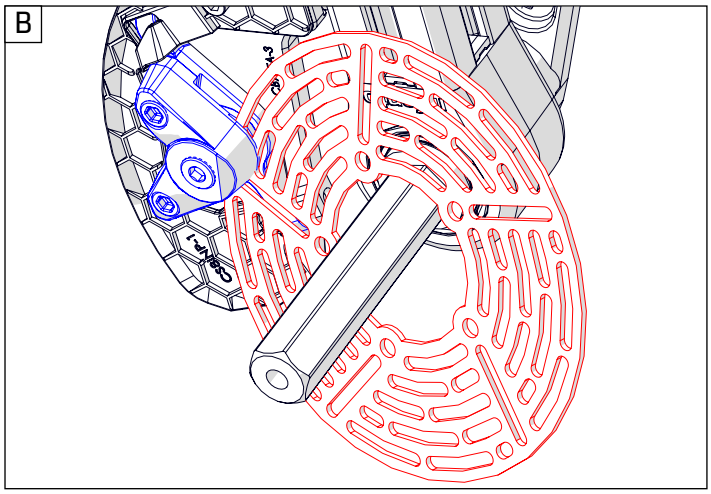
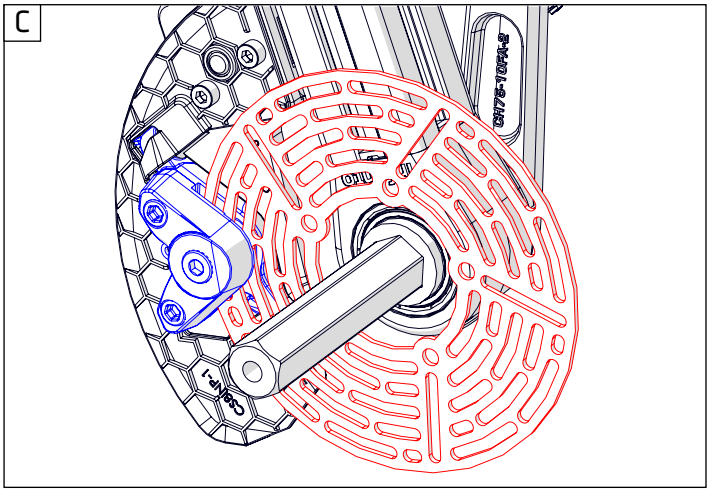
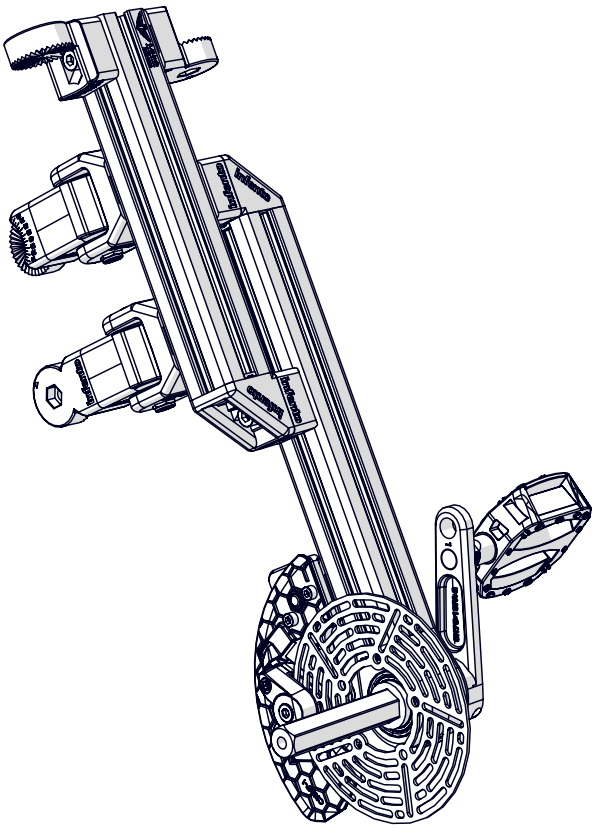
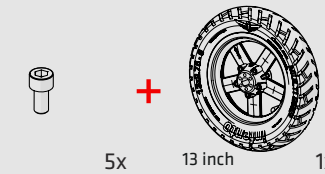
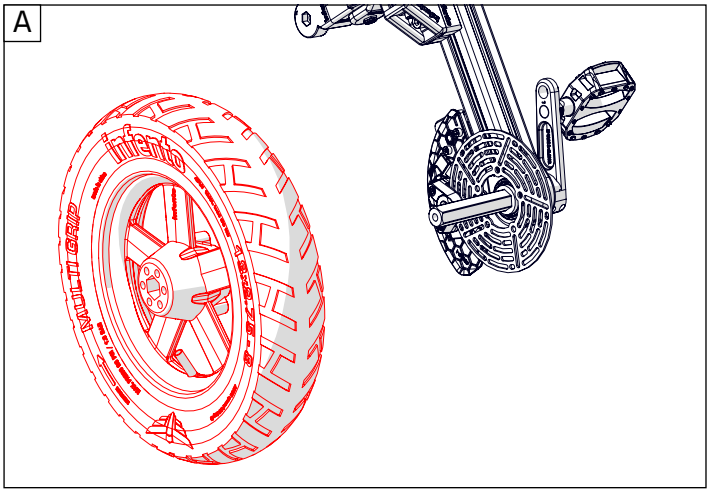


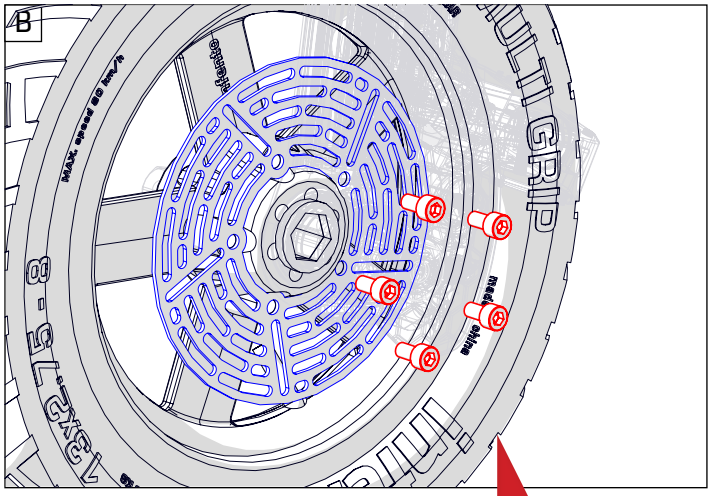
C



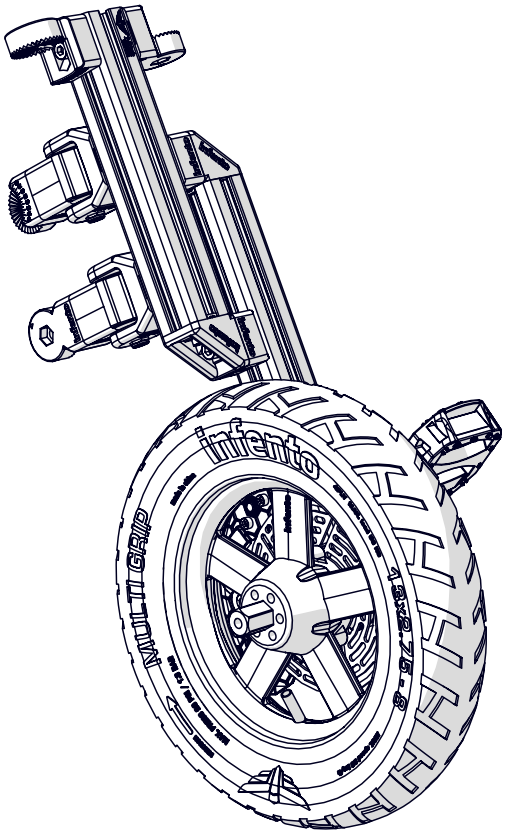


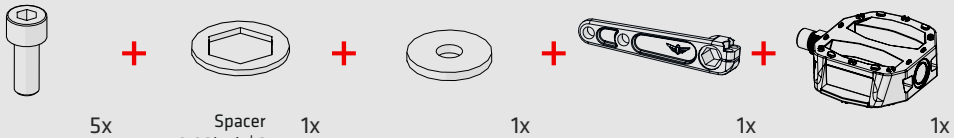






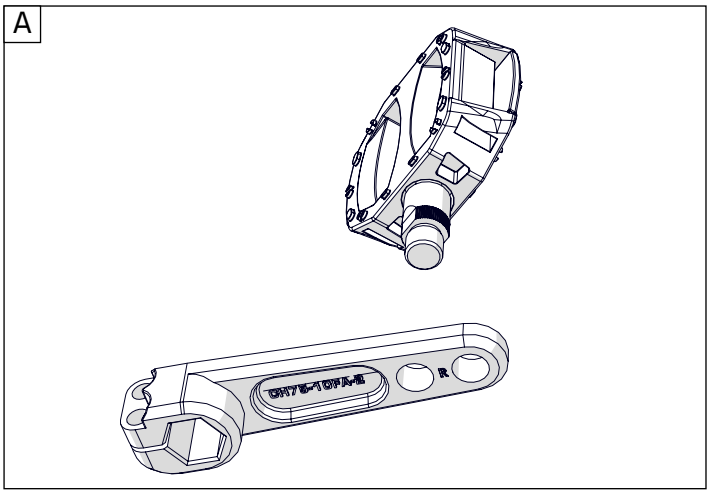
After tightening the second nut, check if the wheel is still rotating with the desired resistance.



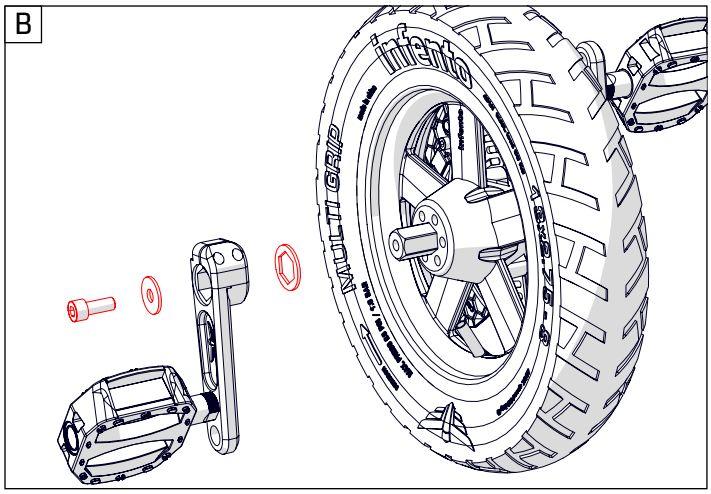


Bolt M8x20 5x | Spacer 0.08inch | 2 mm 1x | Washer M8-24 1x | Crank large right 1x | Pedal right 1x

A



B



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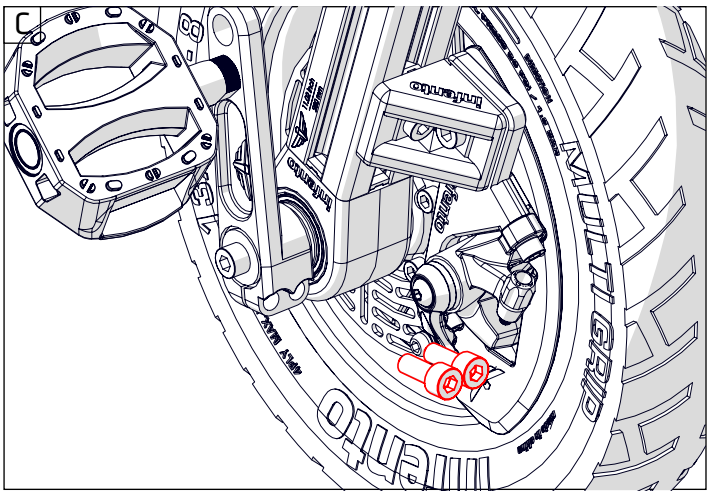

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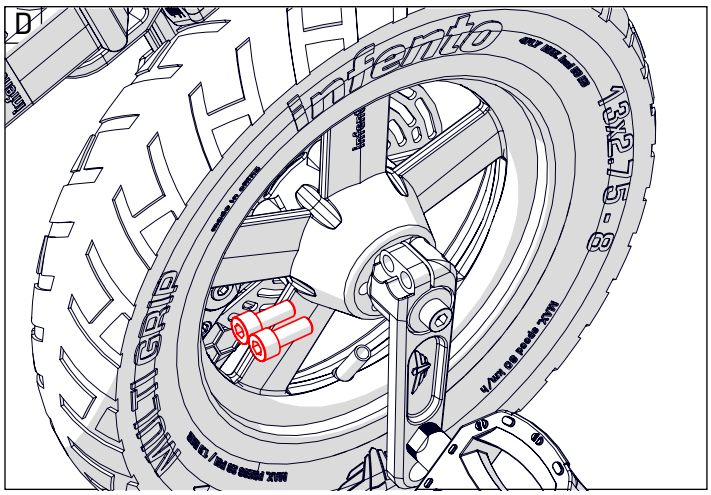
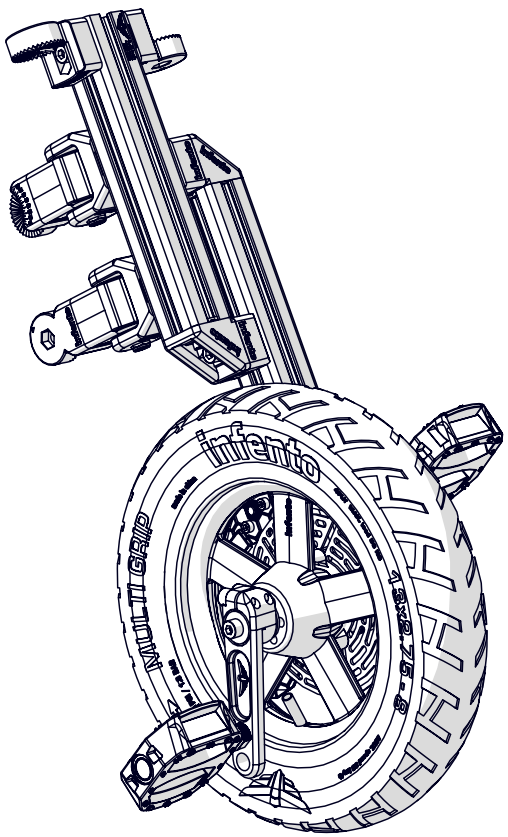
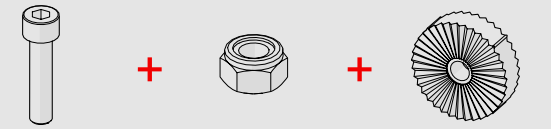
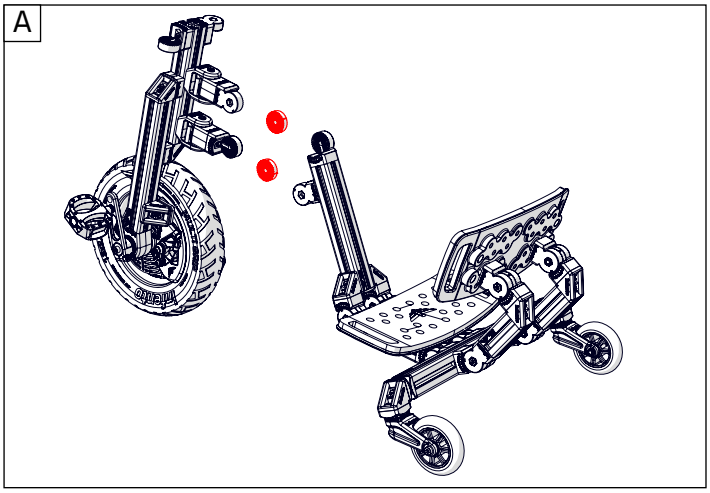





2x
Bolt M8x35
2x
Locknut M8
2x
Knurled disc 1 stripe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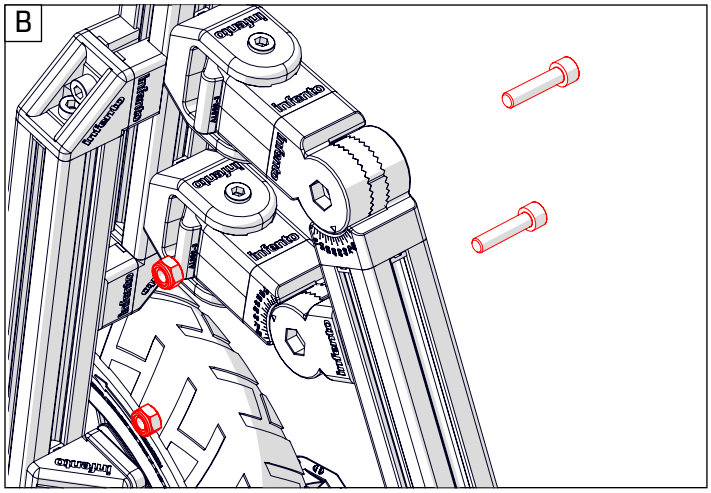
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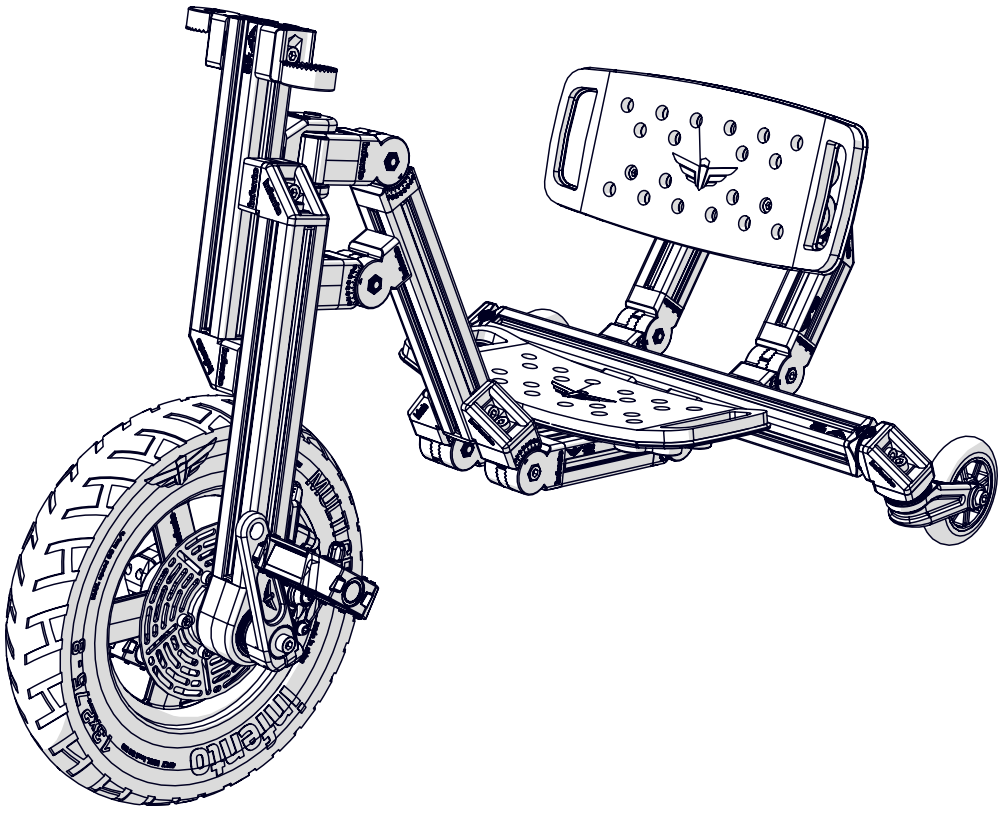
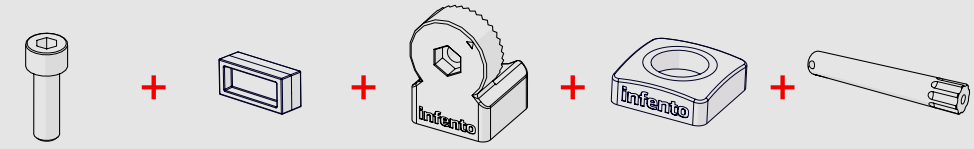
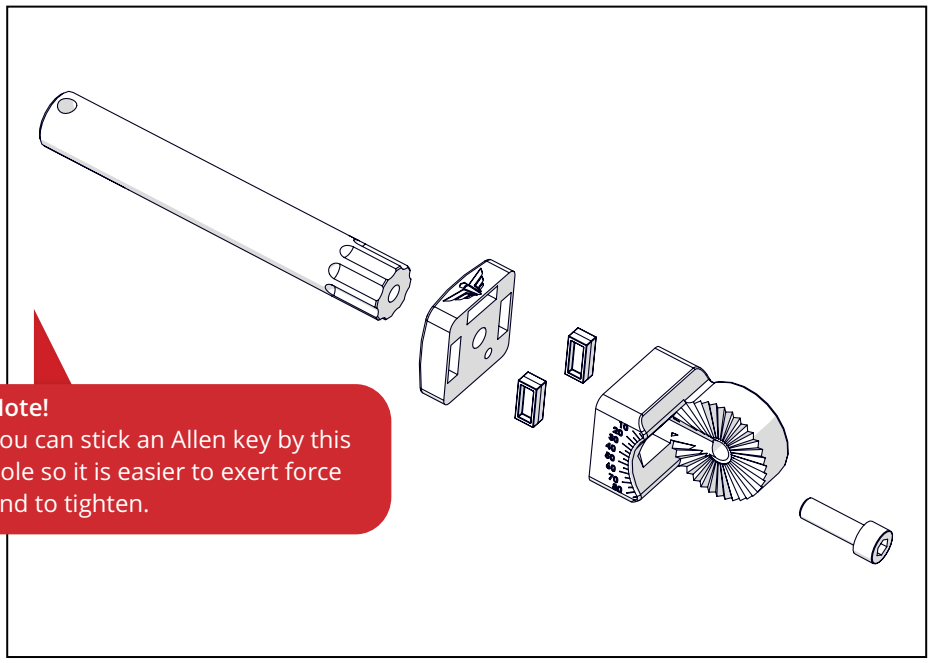
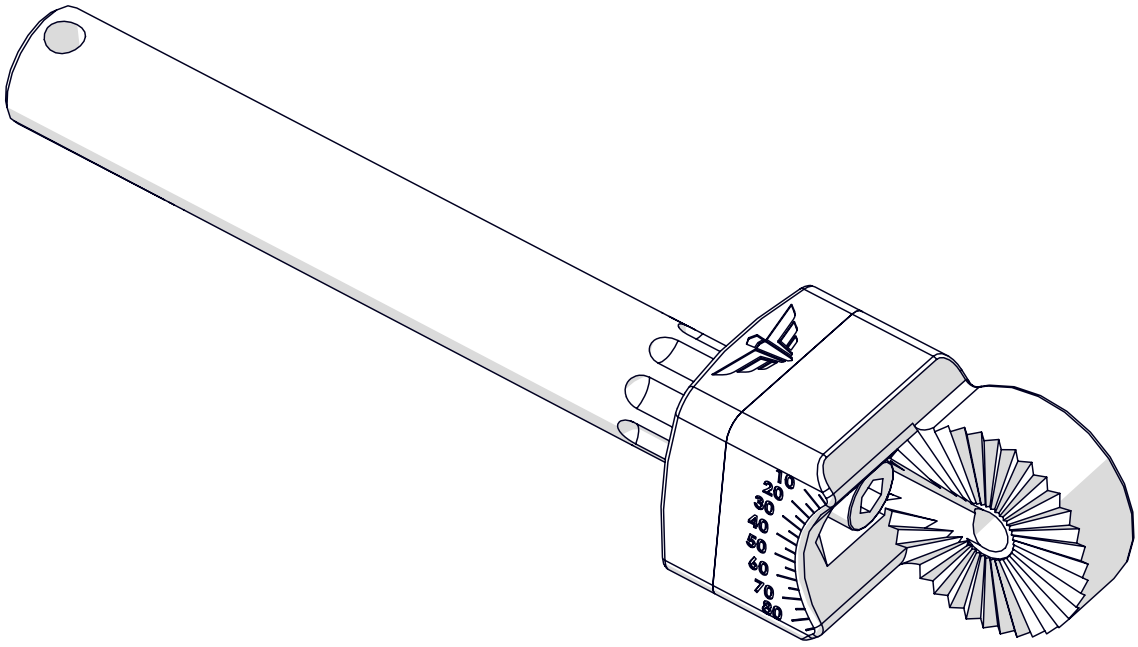


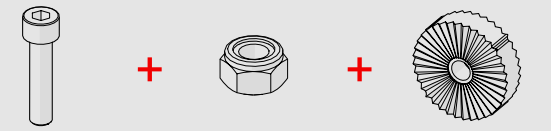


Bolt M8x25 1x + Positioning block 2x + Multi angle joint 1x + Axle plate 1x + Handlebar short 1x



Note!
You can stick an Allen key by this hole so it is easier to exert force and to tighten.

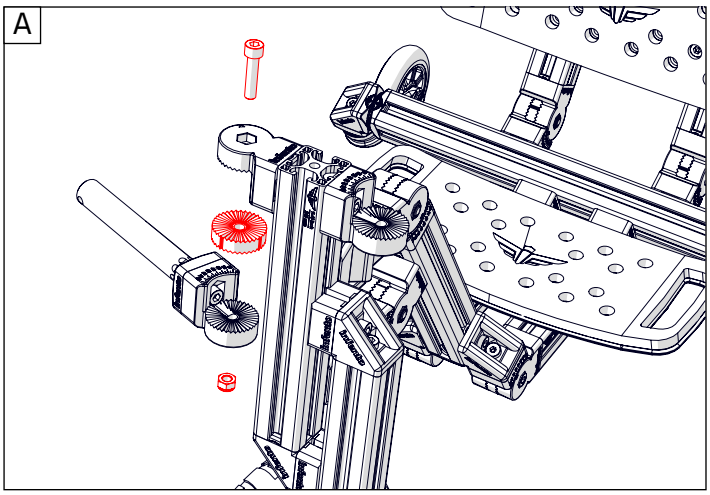


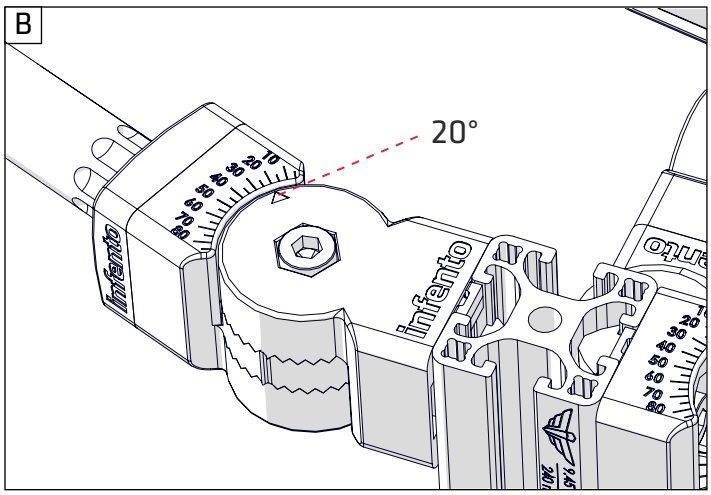


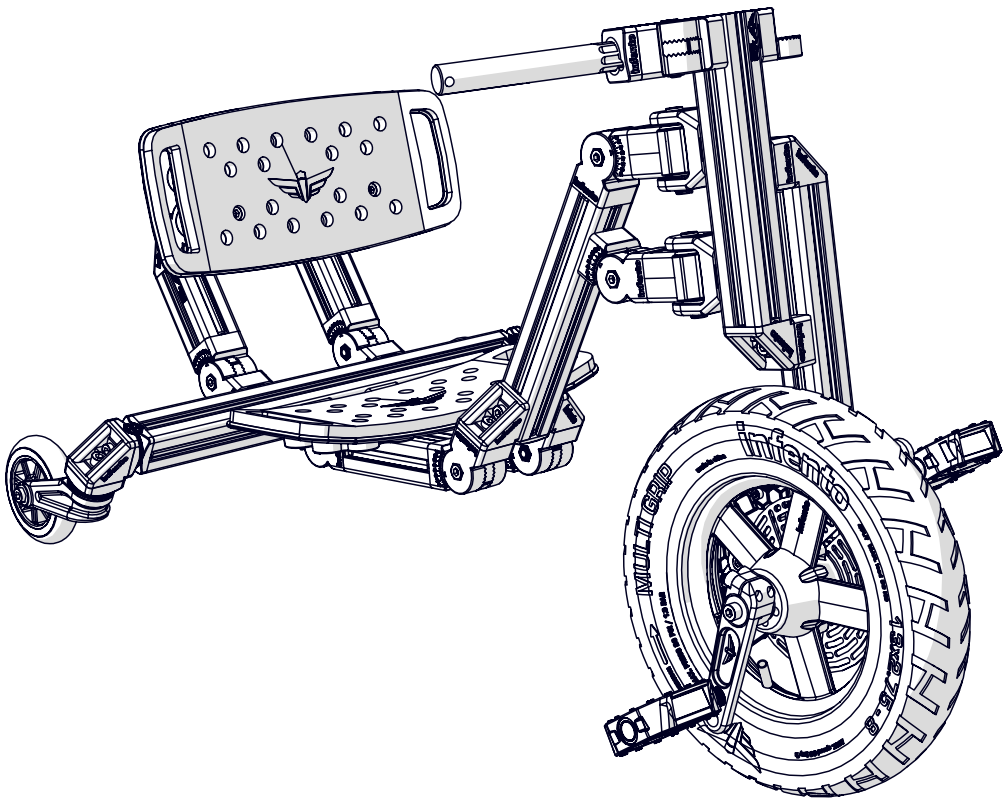
1x Bolt M8x35

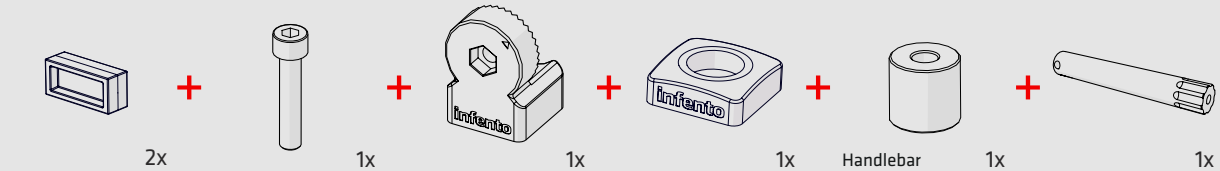
1x Locknut M8

1x Knurled disc 2 stripes

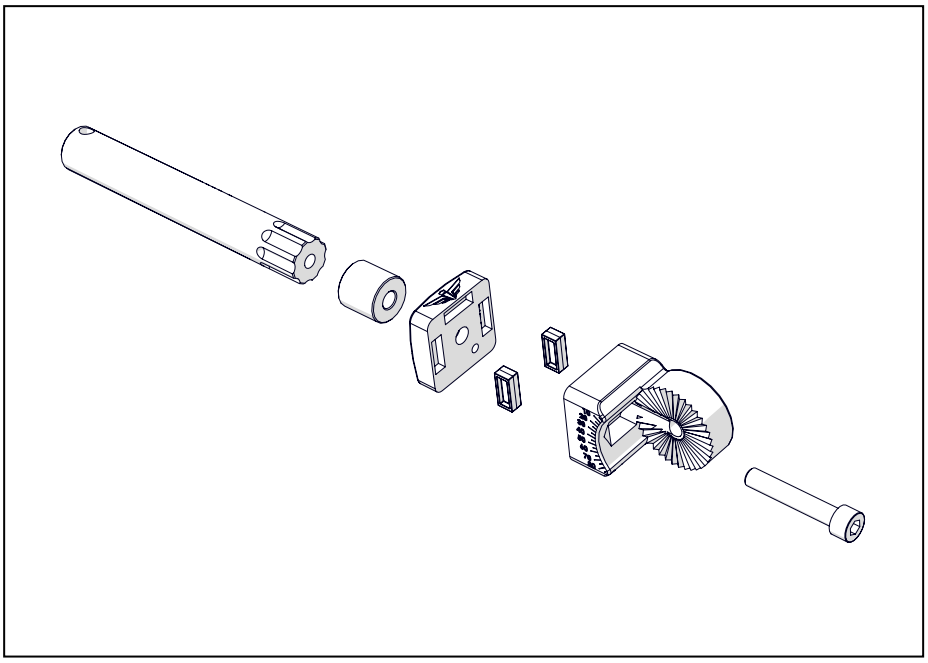


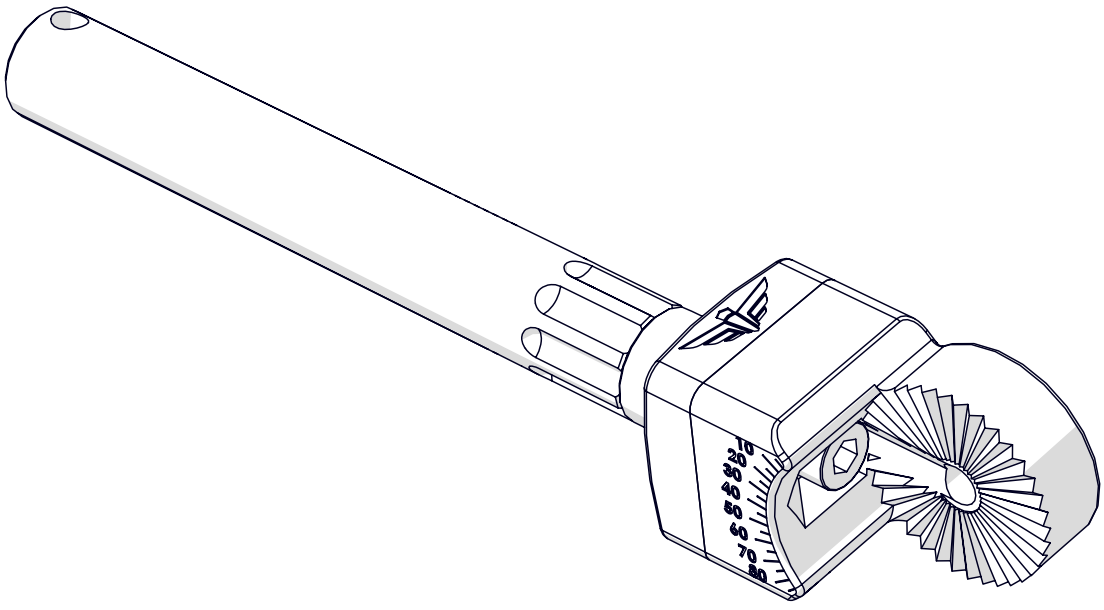


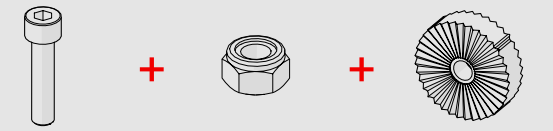




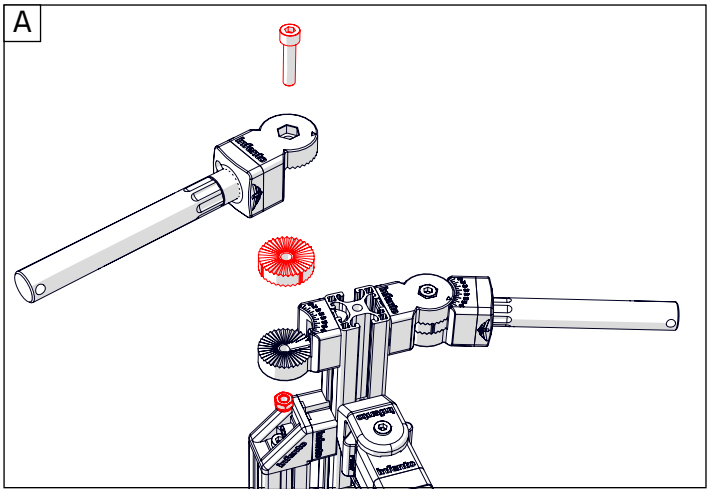
2x Positioning block + 1x Bolt M8x45 + 1x Multi angle joint + 1x Axle plate + 1x Handlebar extension + 1x Handlebar short

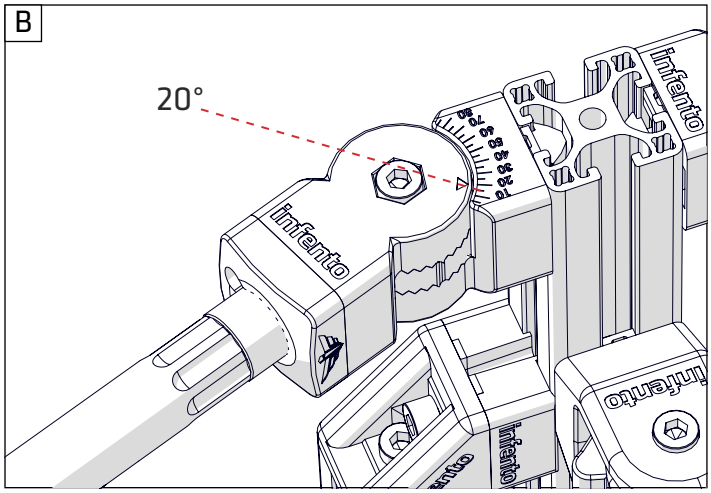


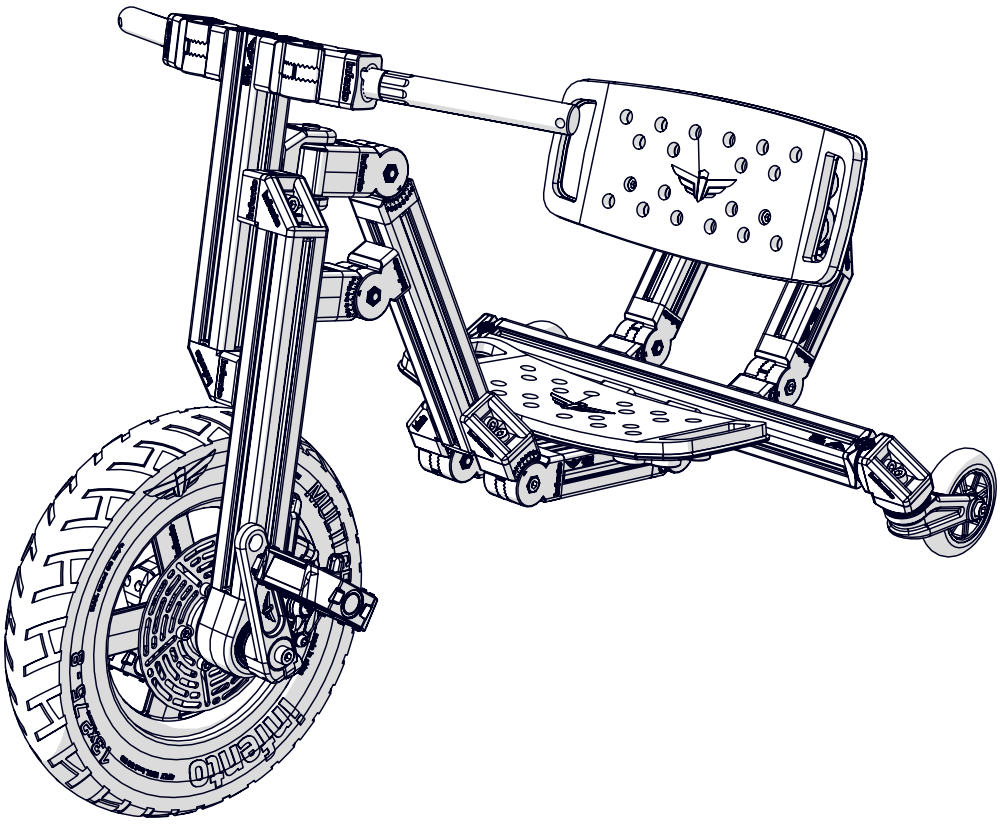


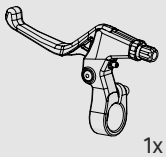


1x Bolt M8x35 + 1x Locknut M8 + 1x Knurled disc 2 stripes





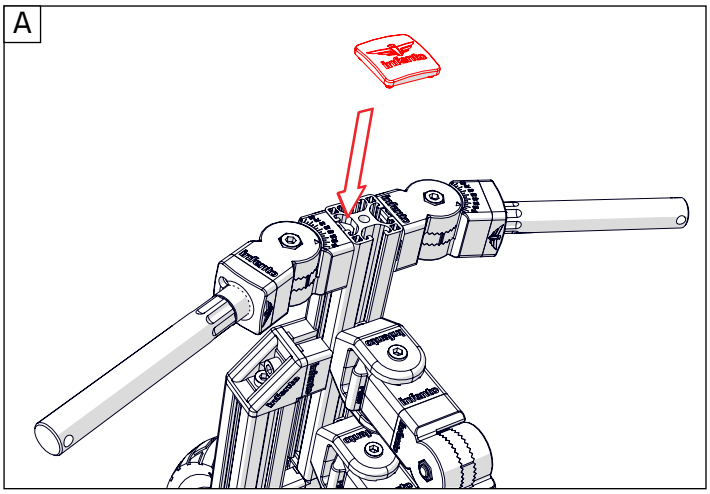



1x
Brake lever left

+

1x
Protect cap

A



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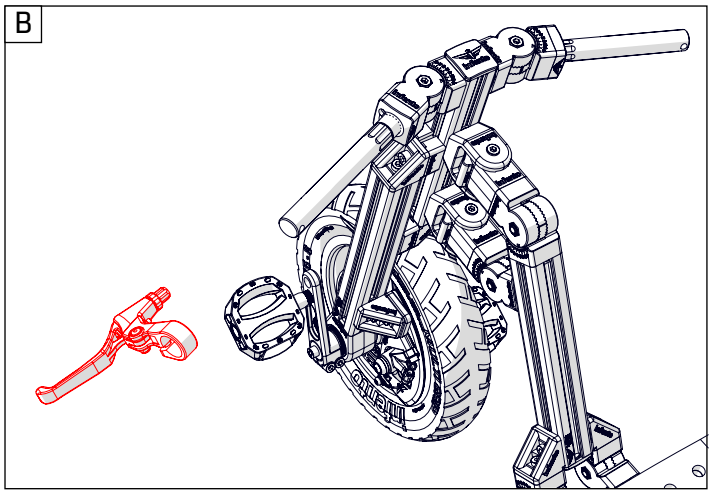

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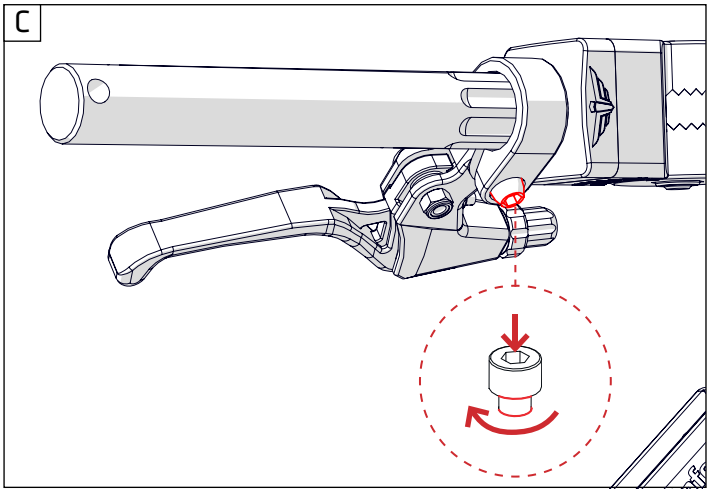
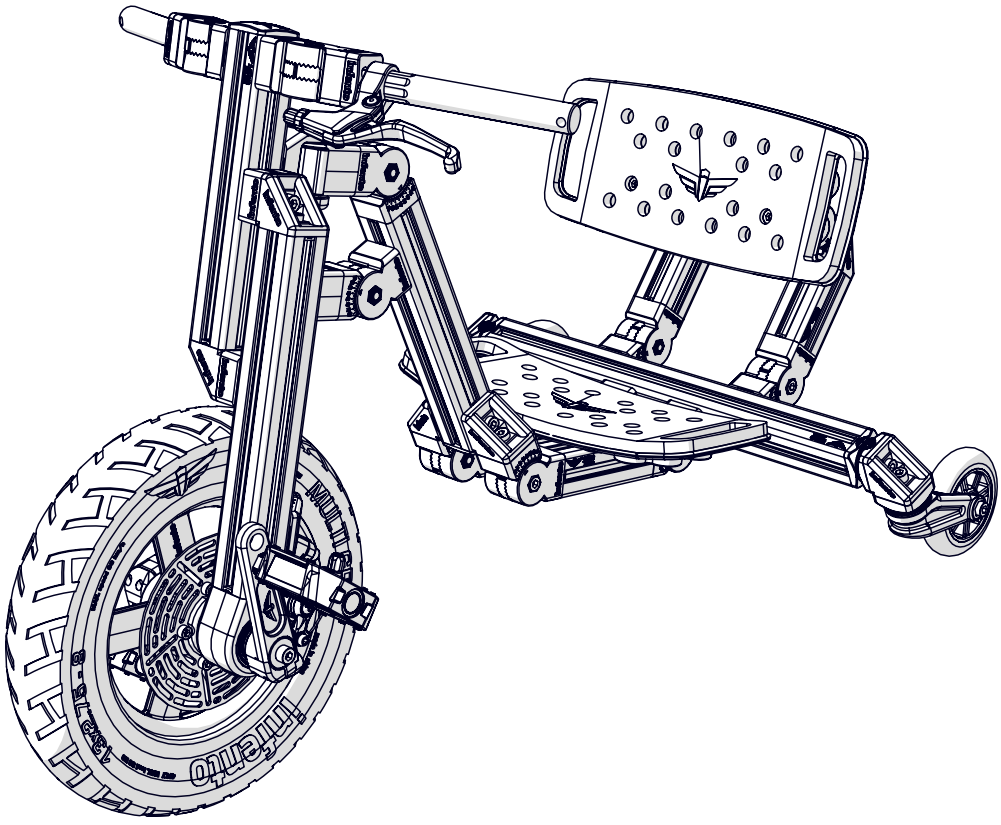
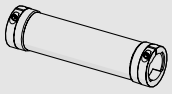
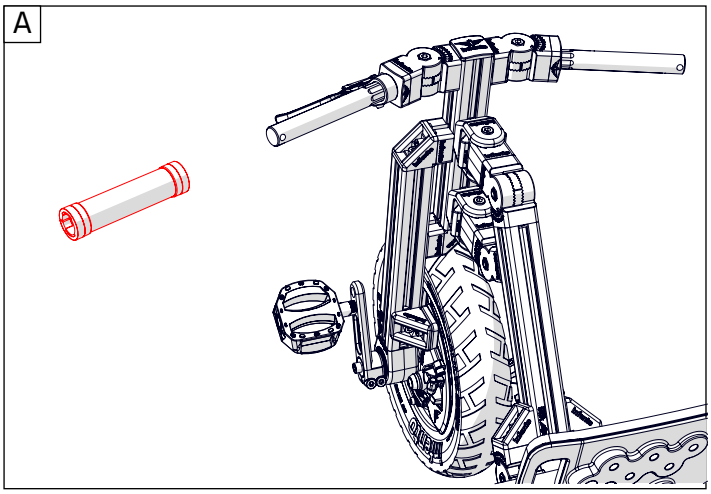
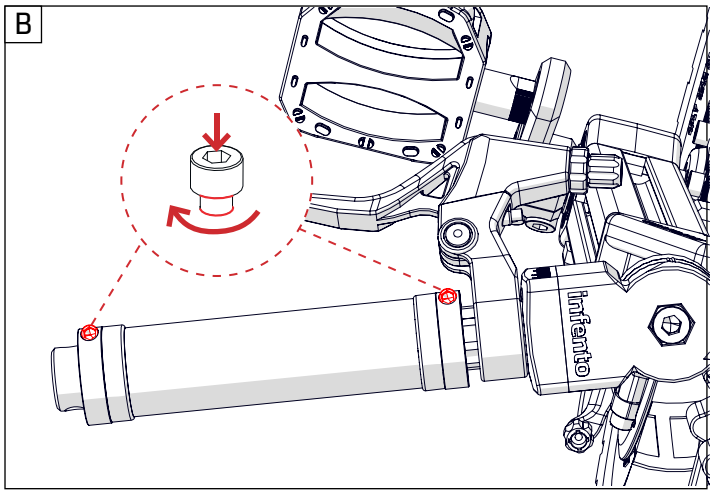


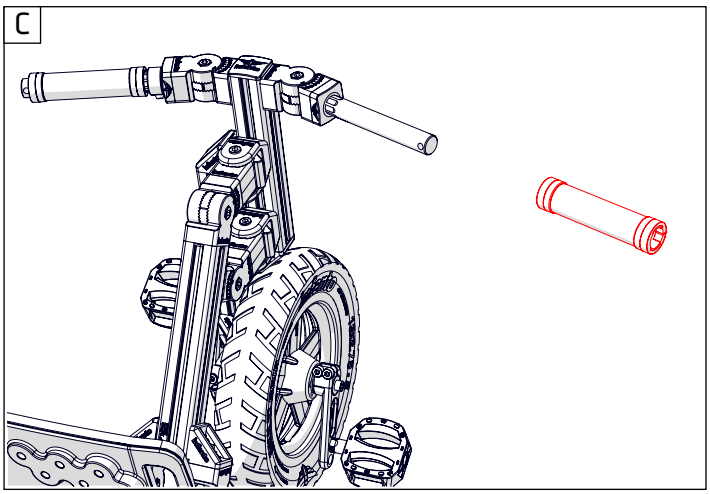


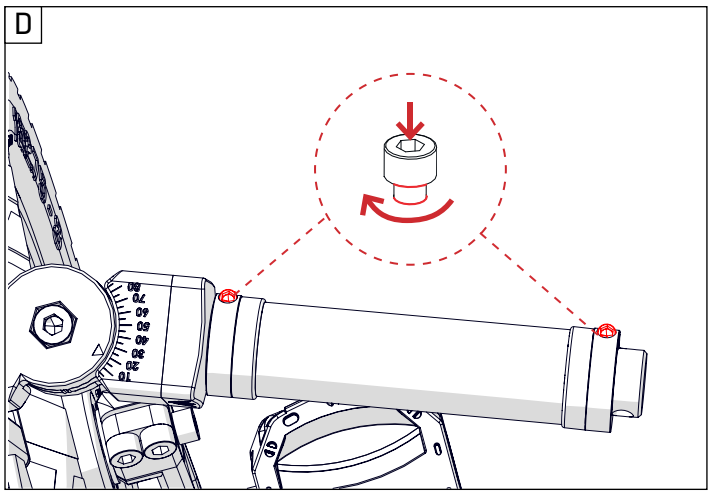


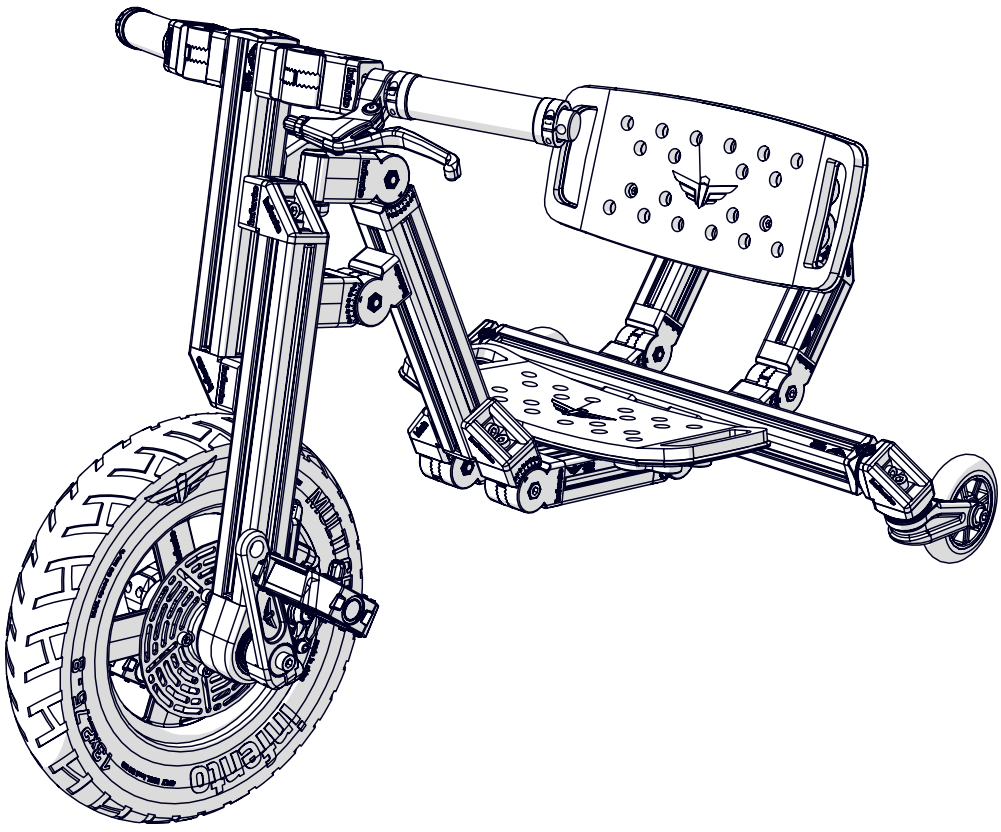
2x
Handgrip



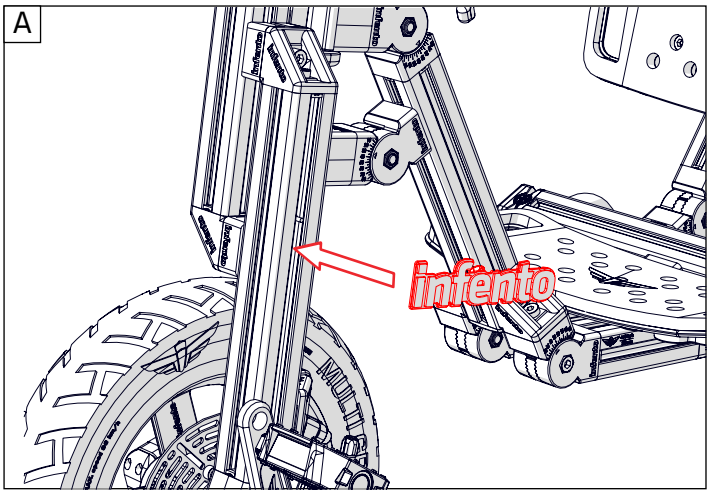


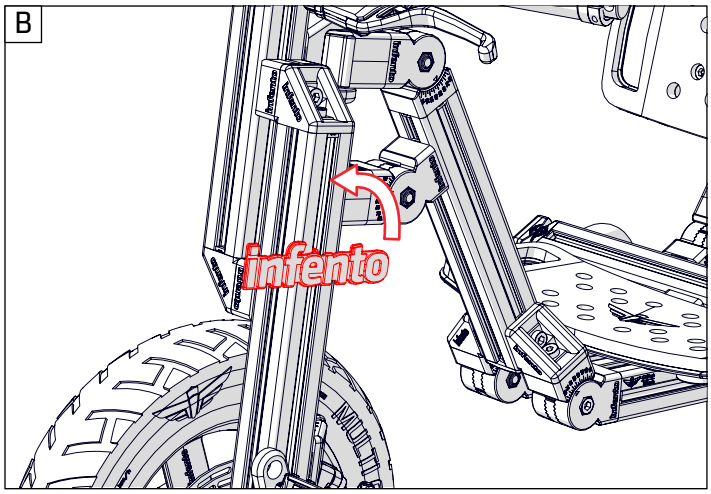


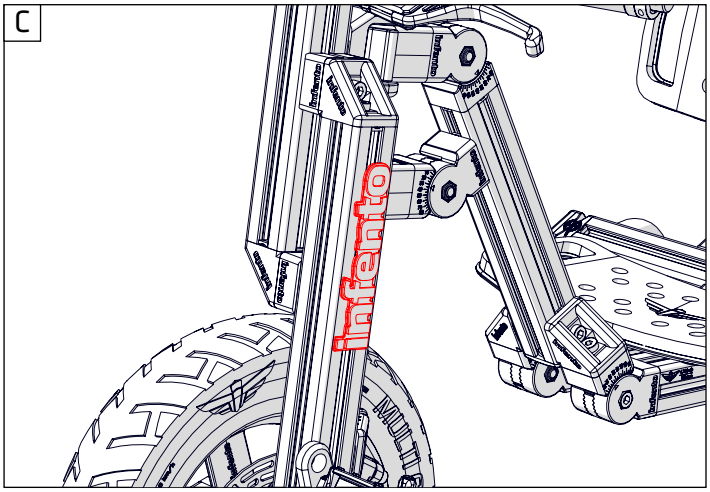


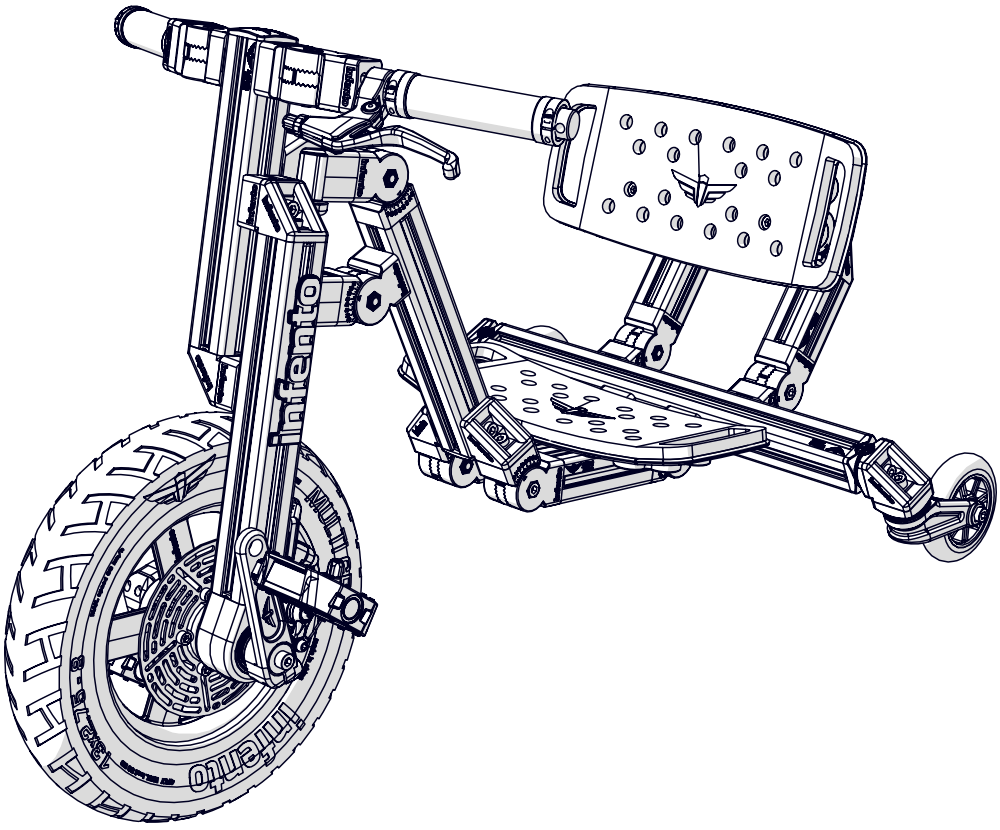


1x
Word mark

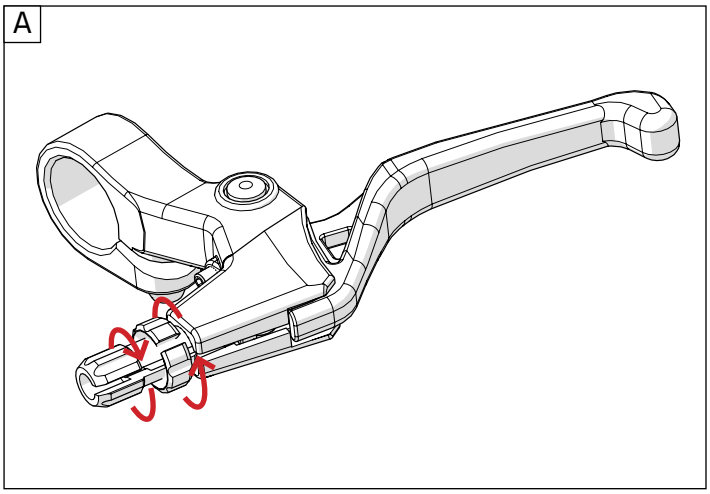








A



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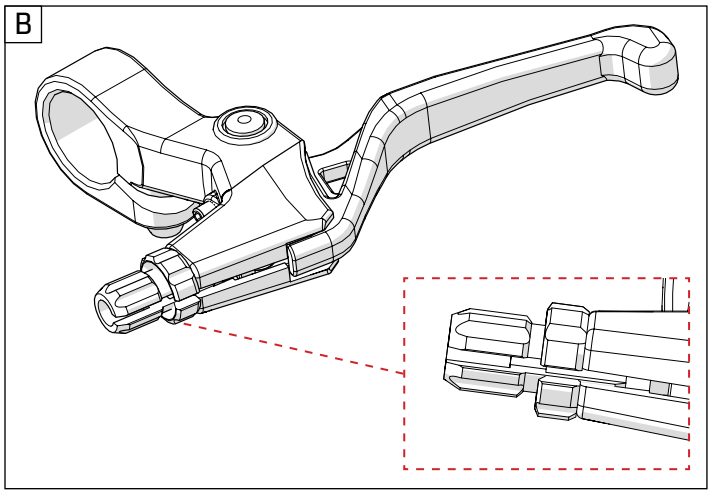
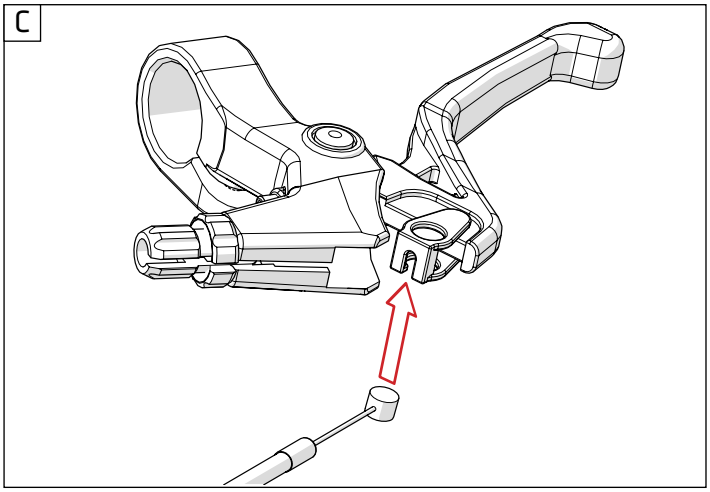


C



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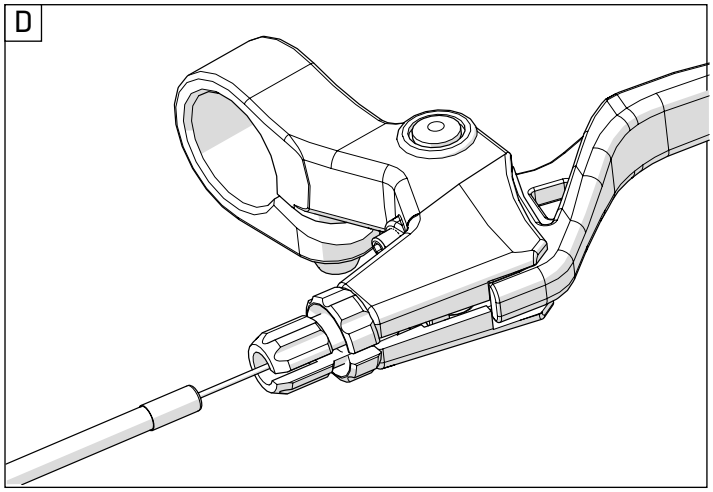
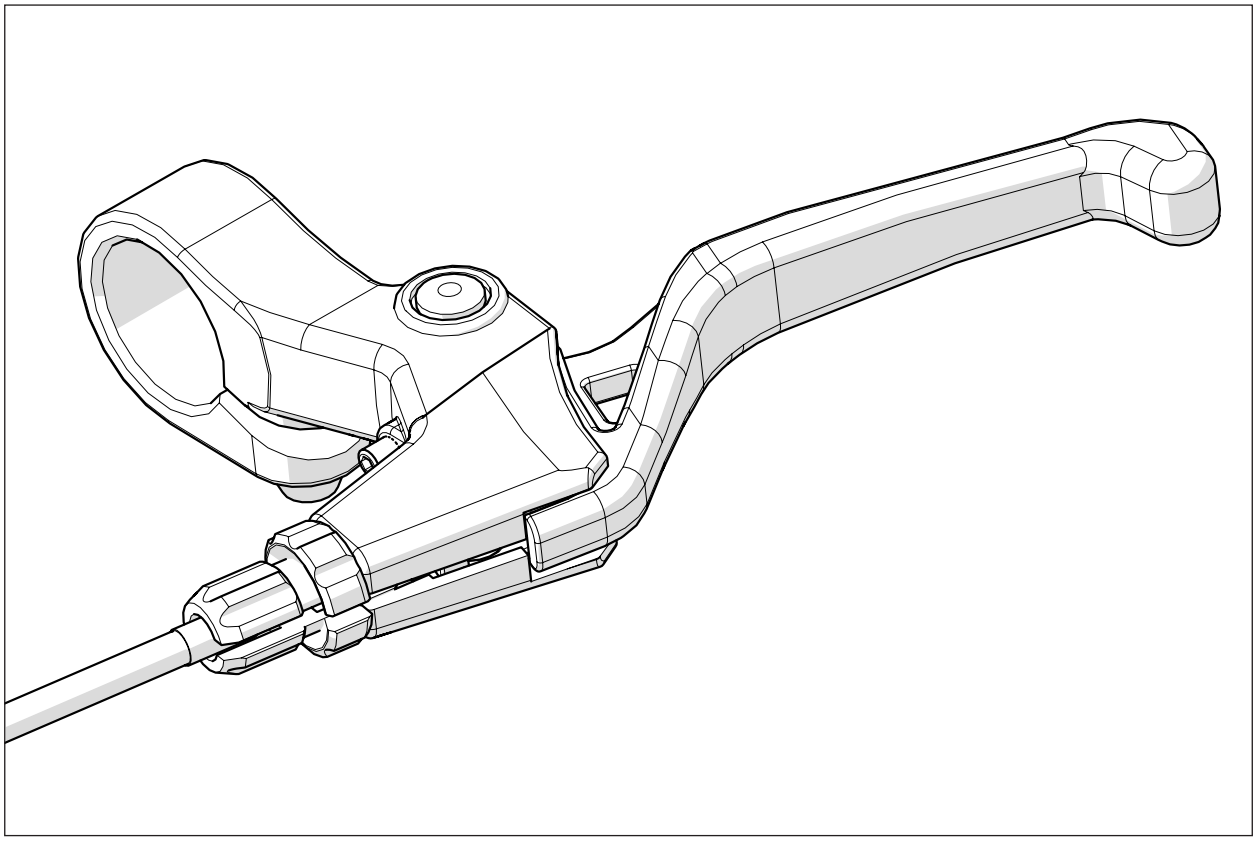
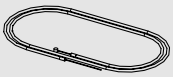
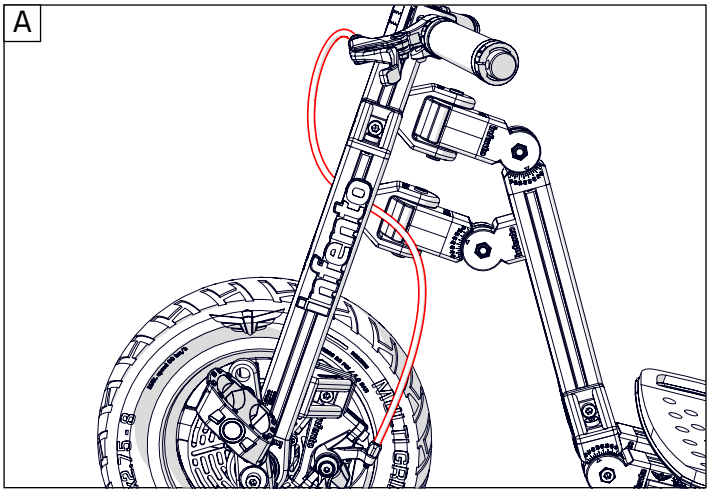
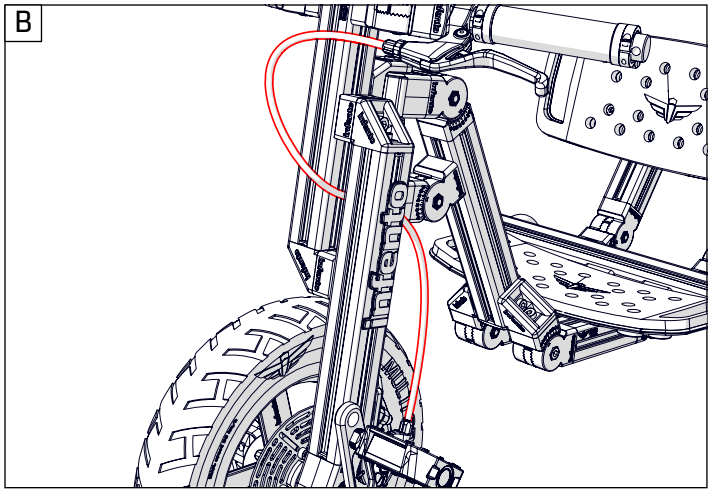


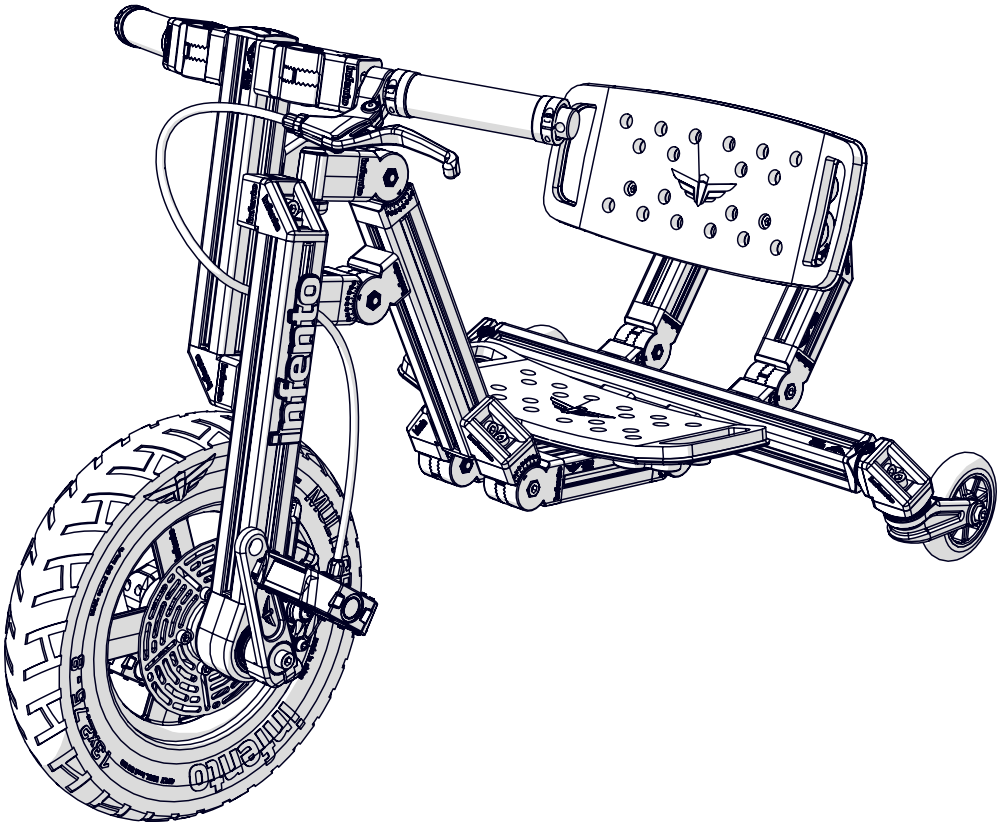




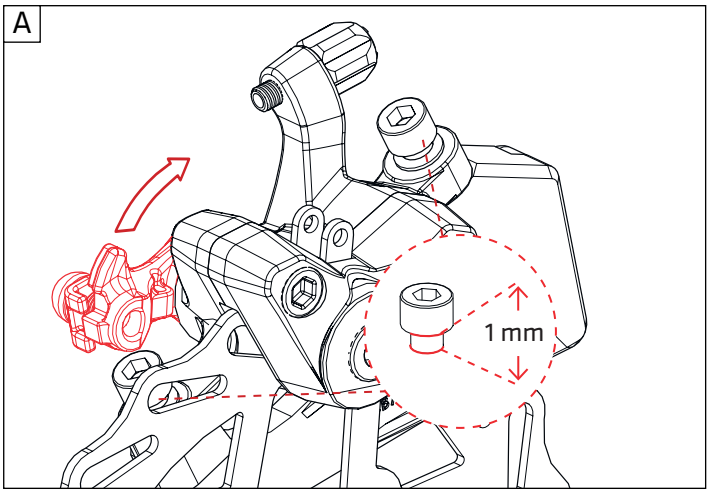
Brake cable 1x
27.56 in | 700 mm



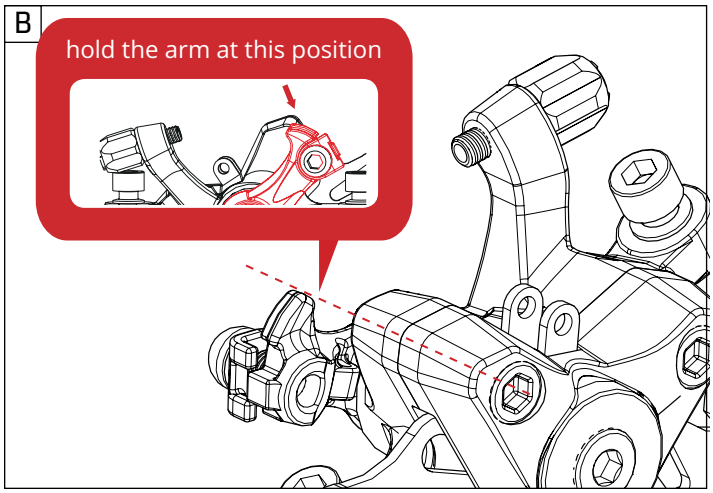




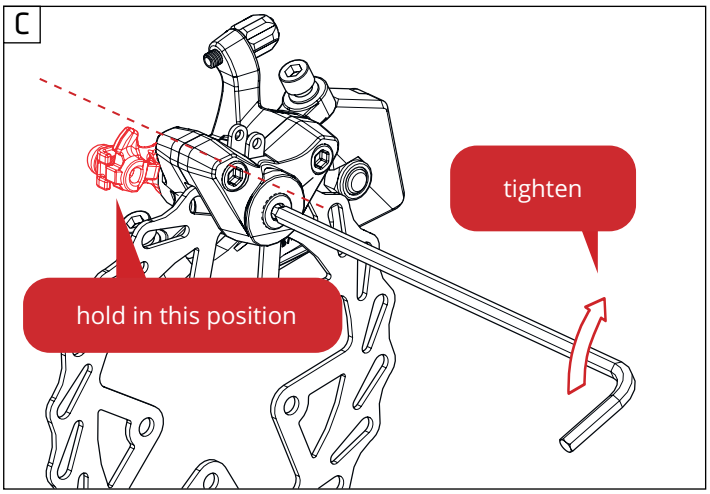
A


1 mm

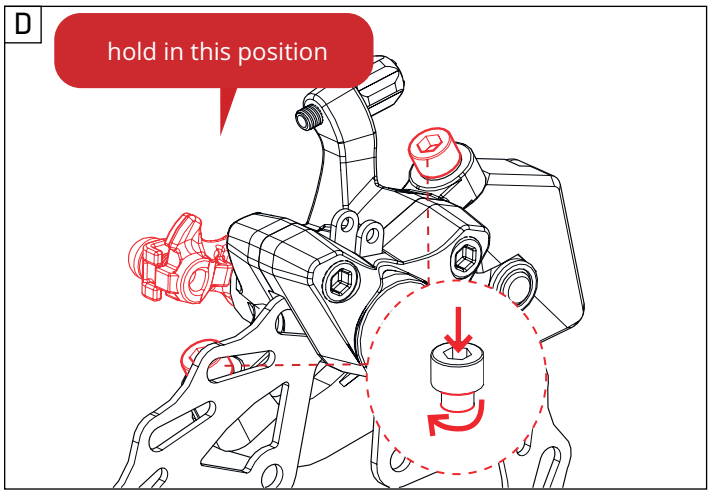
B


hold the arm at this position

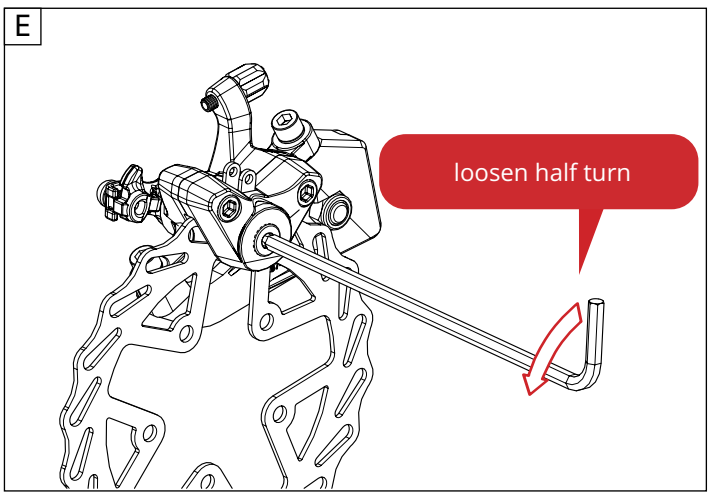
C


tighten
hold in this position

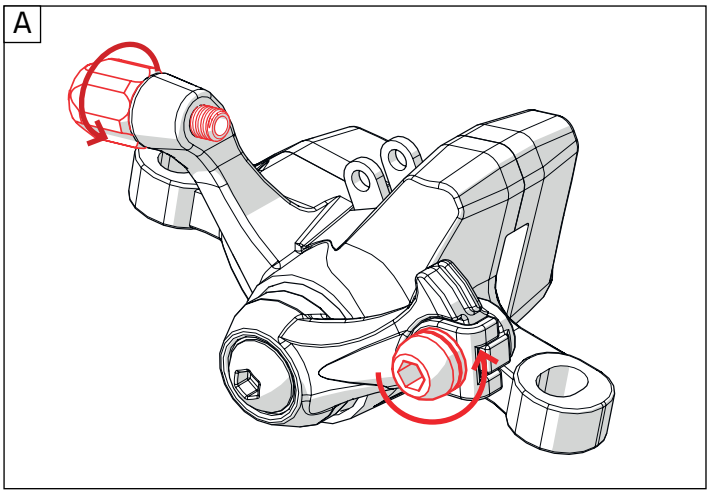
D


hold in this position

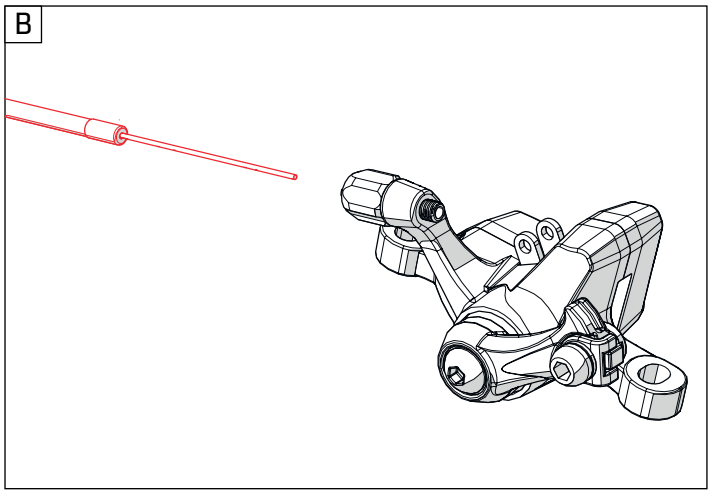
E


loosen half turn

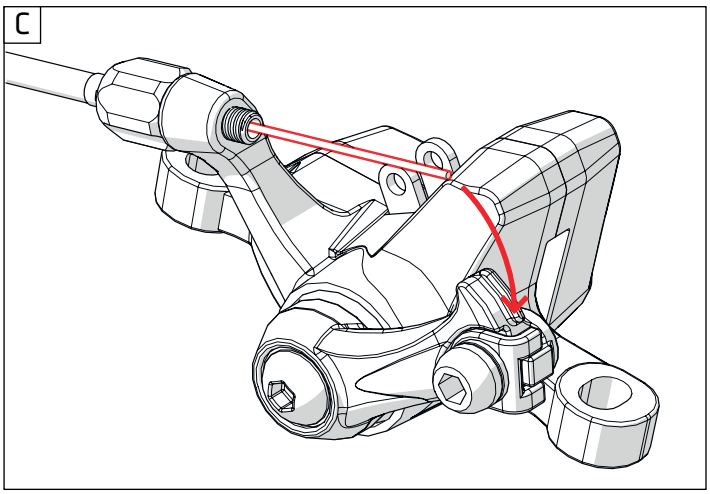
A



B



C



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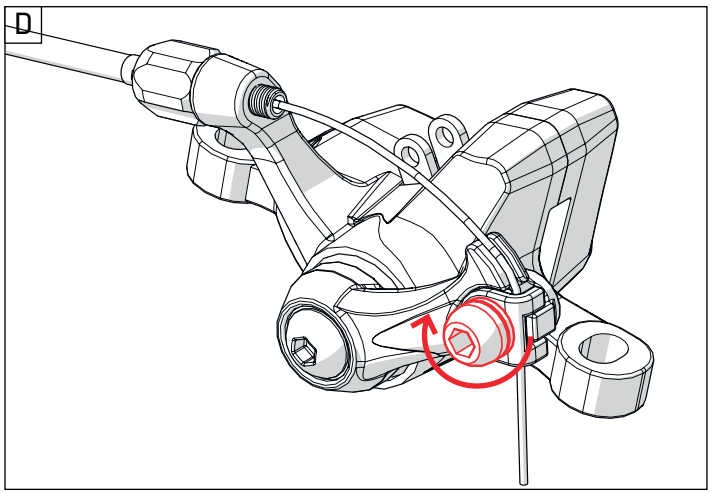

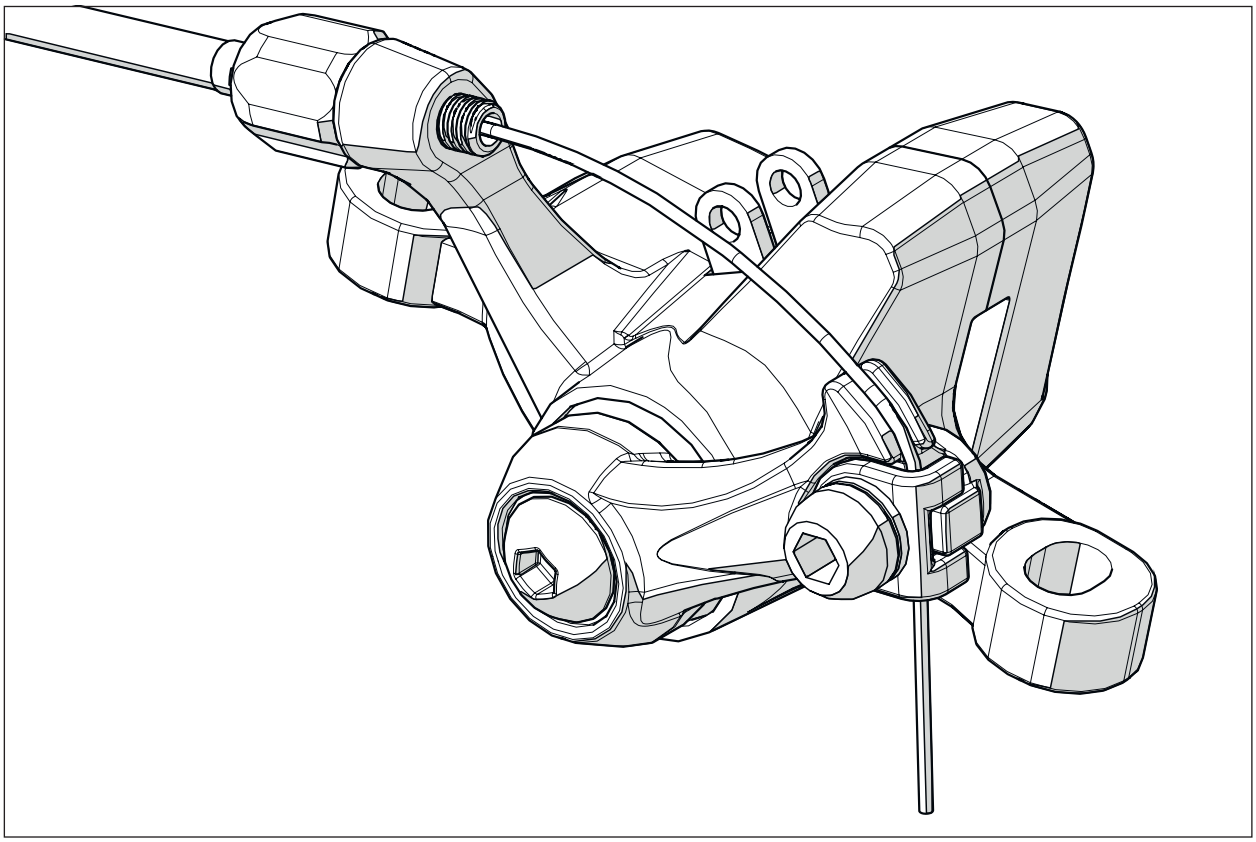

WHIRL G1

THANK YOU FOR READING ME!