

# CATERPILLAR XL<sup>G1</sup>

**6-14**  
YEARS

## CONSTRUCTION MANUAL



<b>Length</b>	118 - 168 cm / 47 - 66 inch
<b>Max weight</b>	70 kg / 153 lbs
<b>Time to build</b>	2 hours



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](http://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 built. 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

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.

## QUESTIONS? HELP NEEDED?

You can email us at:  
**[support@infentorides.com](mailto: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 loose which could allow the chain to slip off the sprockets.

## RECOMMENDED TOOLS



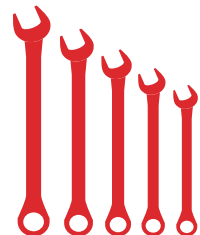
**4 x Allen key**  
3, 4, 5, 6 mm



**1 x Tapeline**



**1 x T-handle**  
for Allen key



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





1

ride CATERPILLAR XL

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

Bolt M8x20 nylock 1x  
(low head)

+

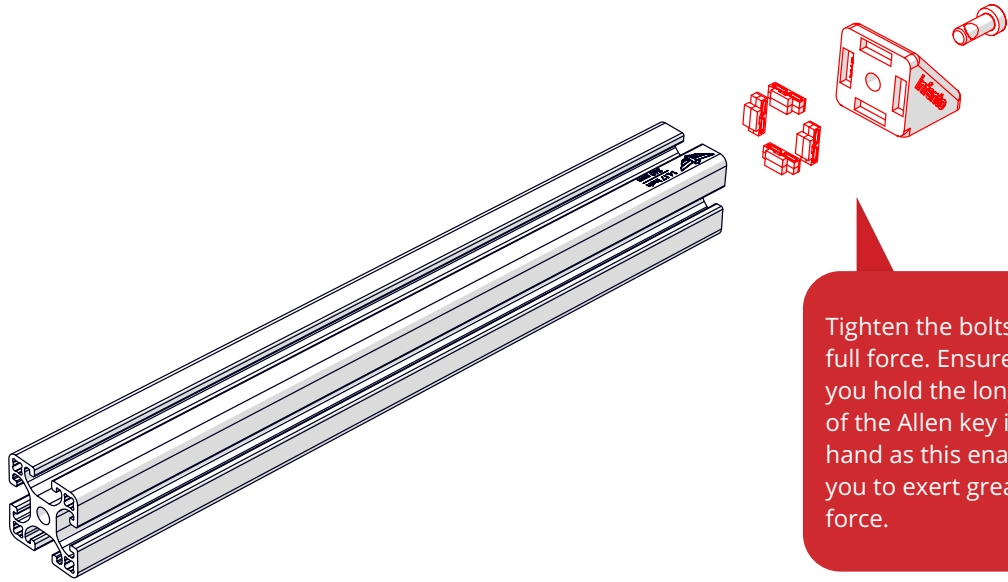
T-Positioning block 4x

+

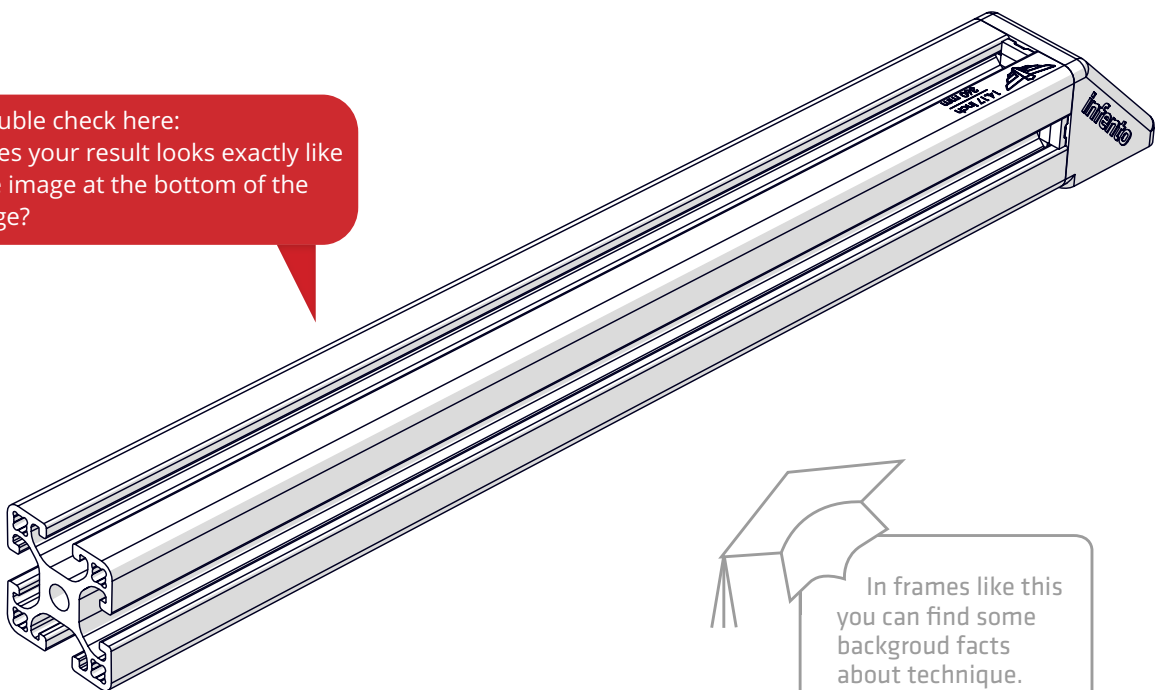
L-joint 1x

+

Profile 1x  
17.32 inch | 440 mm



Double check here:  
Does your result looks exactly like  
the image at the bottom of the  
page?



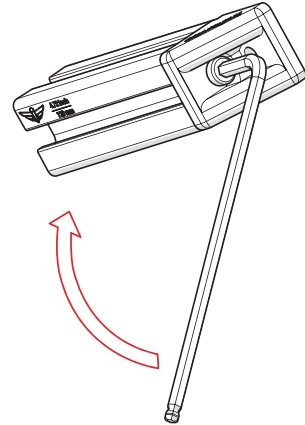
In frames like this  
you can find some  
background facts  
about technique.

# **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.**





3

ride CATERPILLAR XL



Bolt M8x20 nylock 1x  
(low head)

+



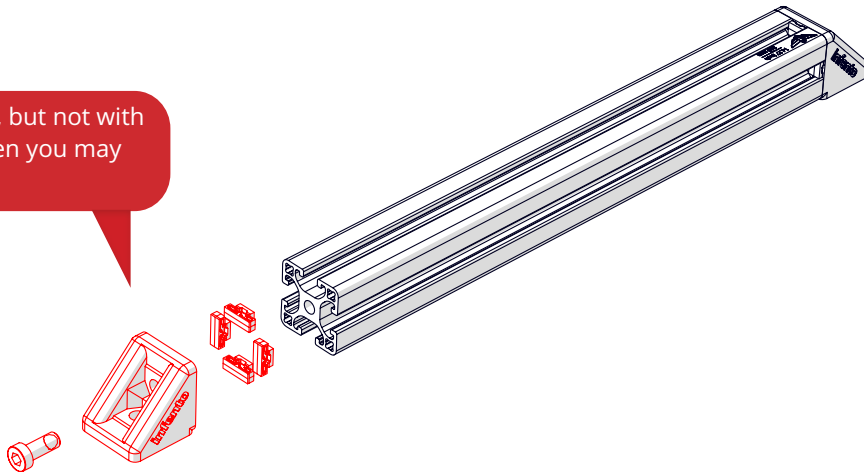
T-Positioning block 4x

+

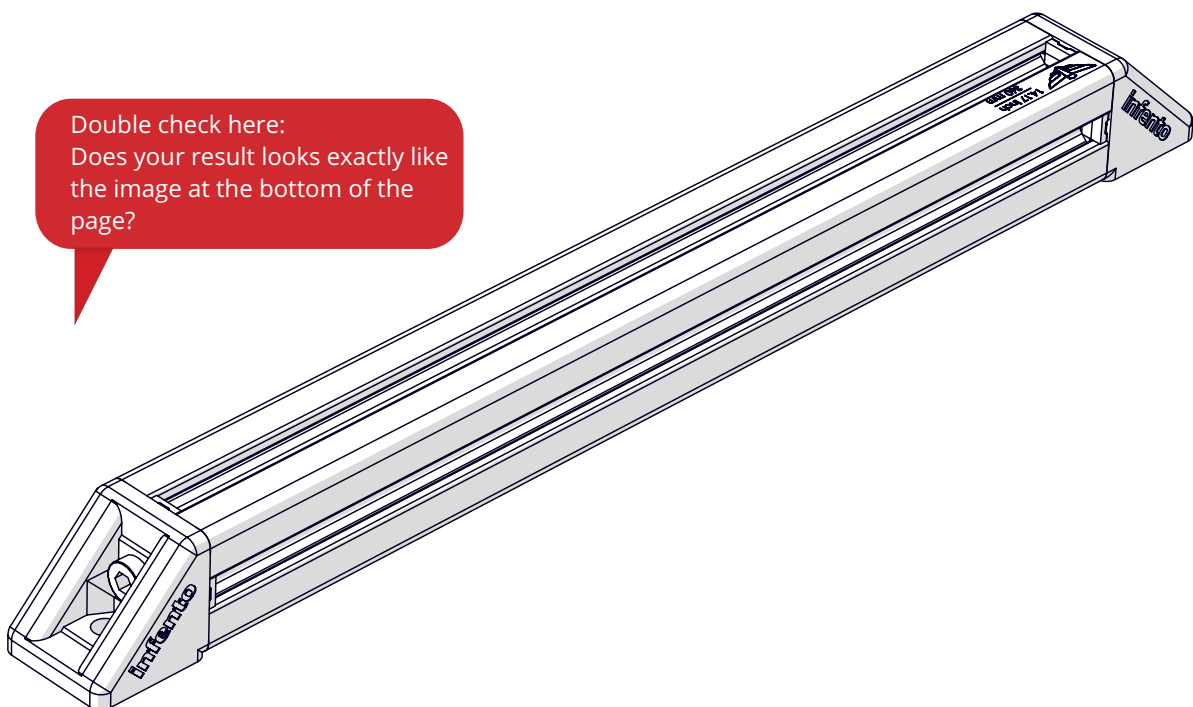


L-joint 1x

Tighten this bolt well, but not with full force because then you may damage the part.



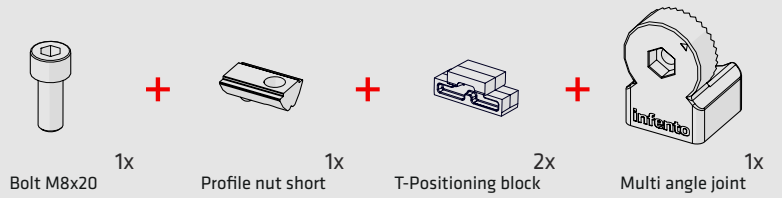
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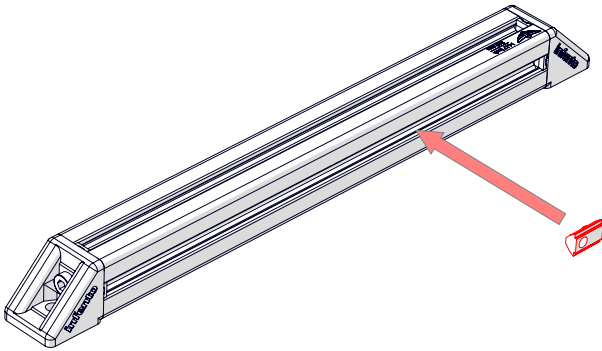


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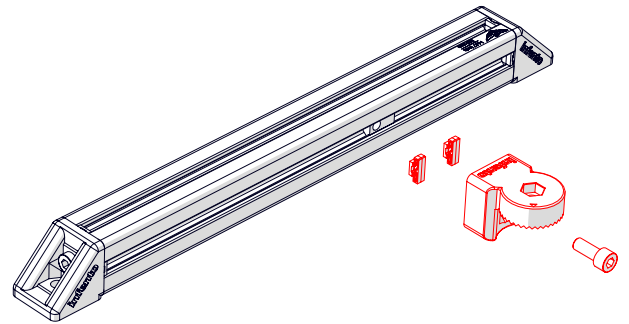
ride CATERPILLAR XL



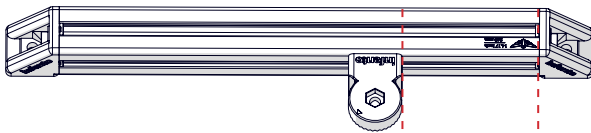
A



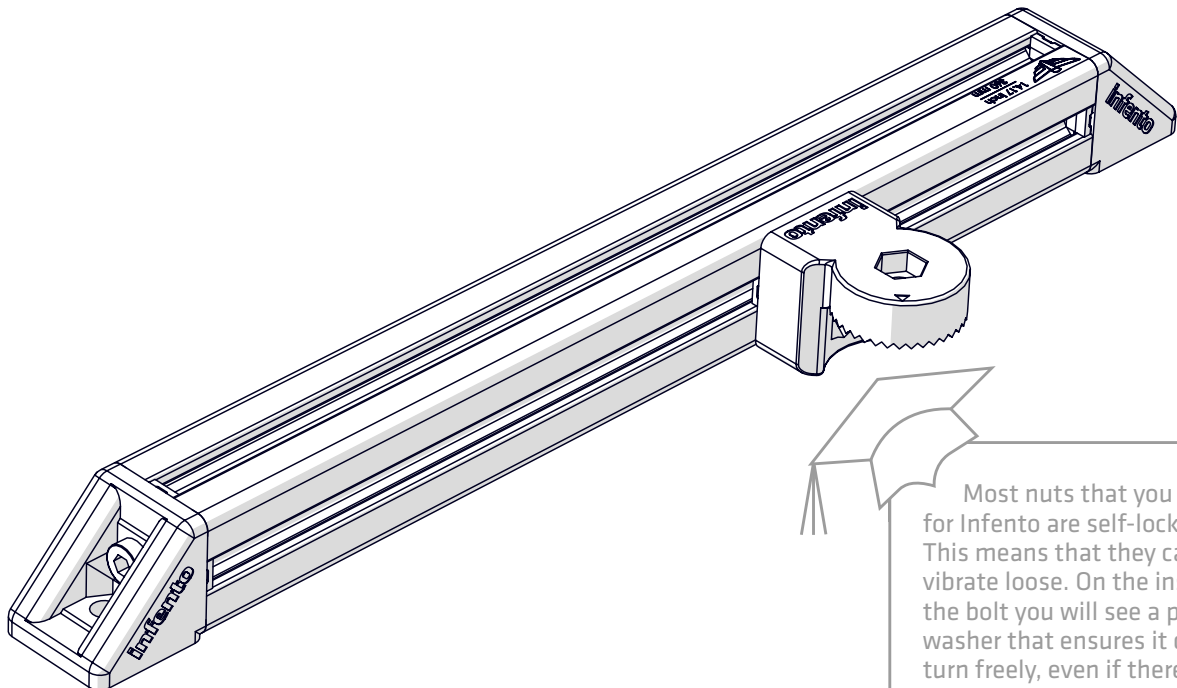
B



C



5.63" | 143 mm

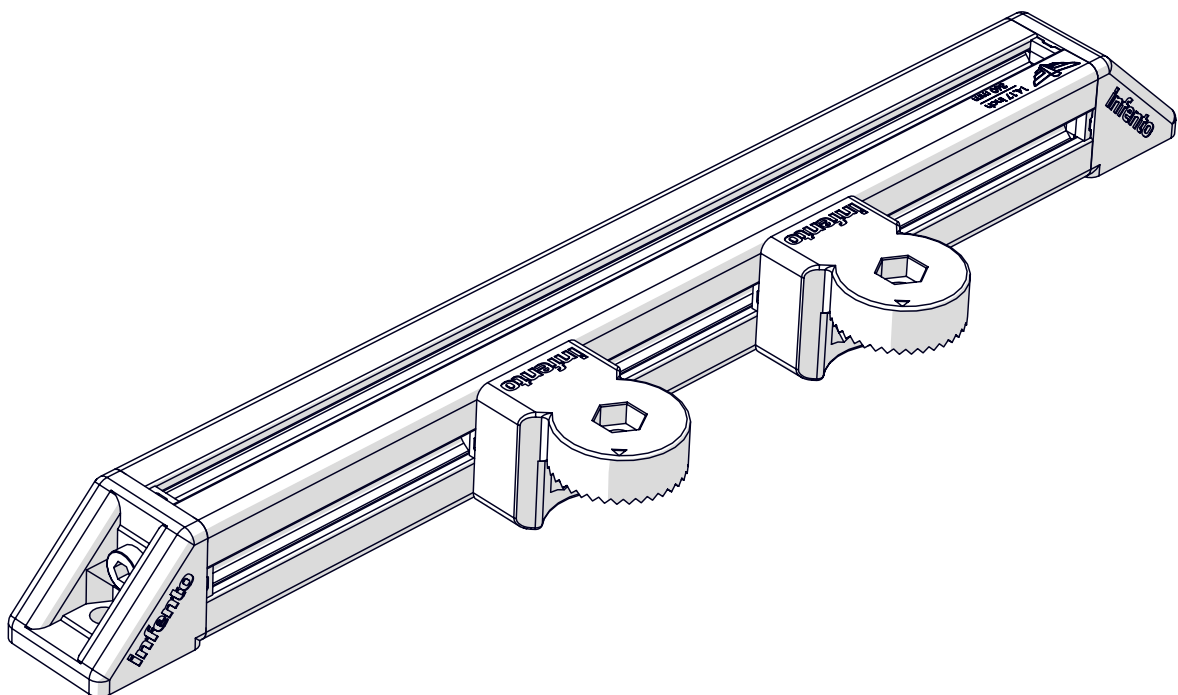
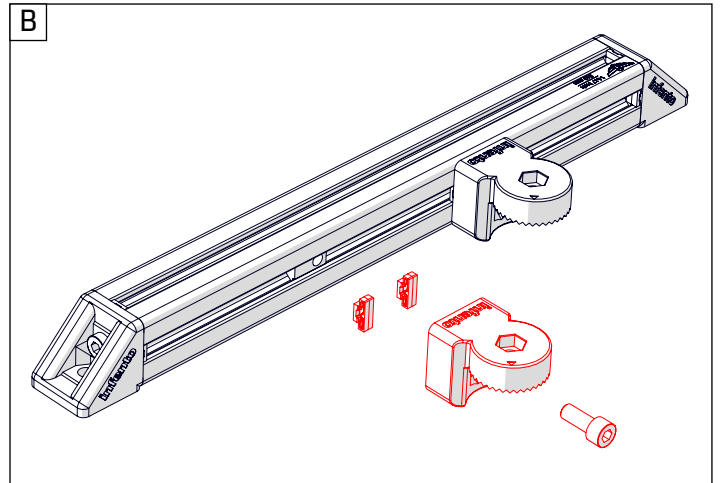
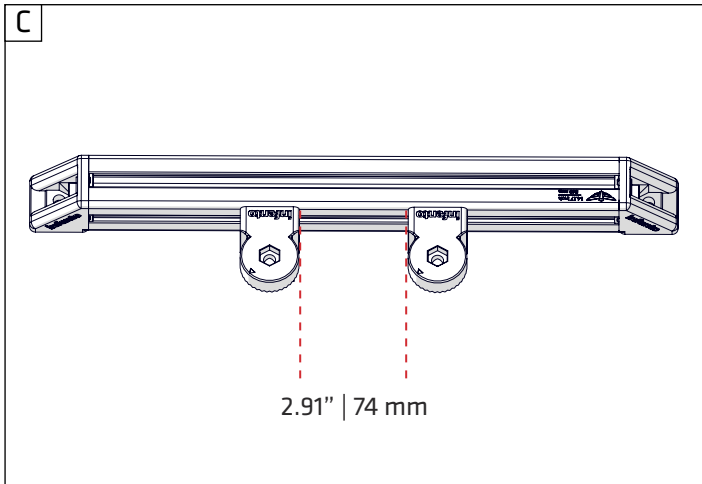
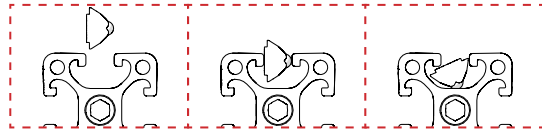
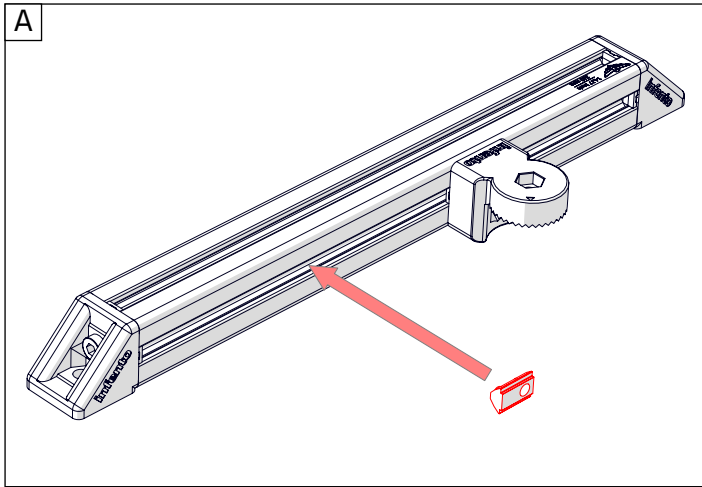
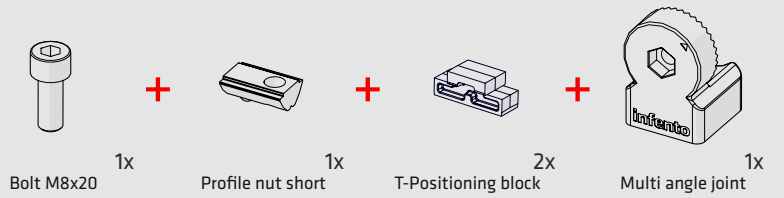


Most nuts that you use for Infento are self-locking. This means that they cannot vibrate loose. On the inside of the bolt you will see a plastic washer that ensures it cannot turn freely, even if there is no tension on the bolt.



5

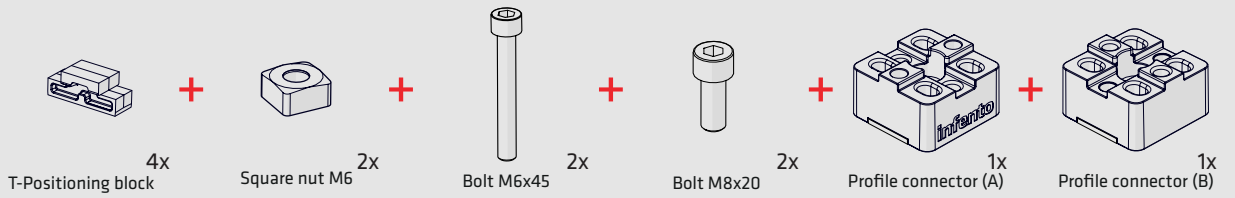
ride CATERPILLAR XL



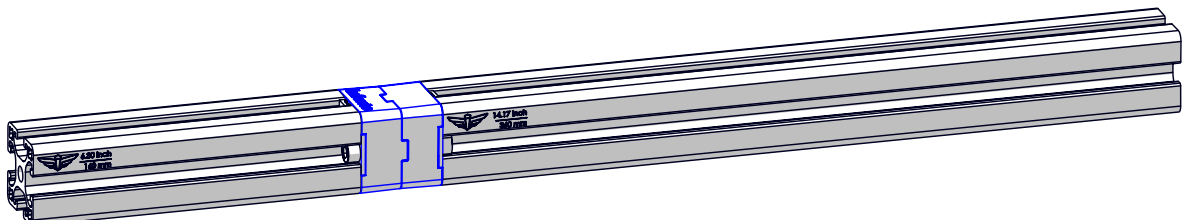
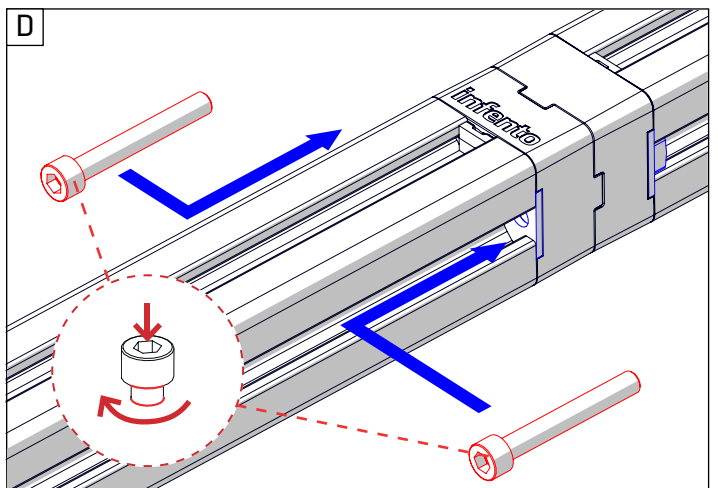
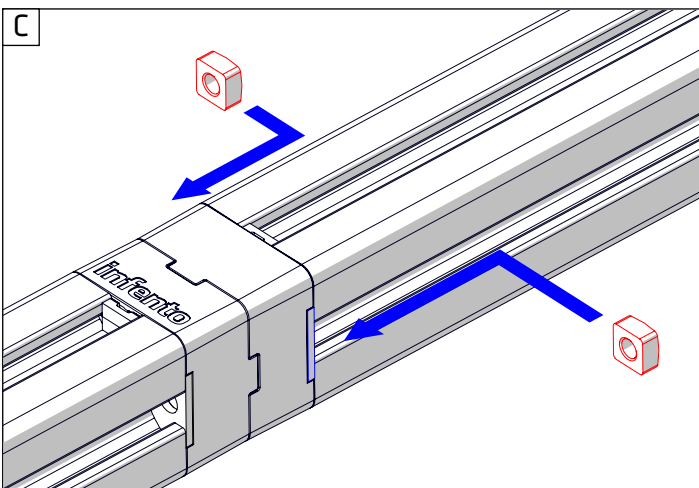
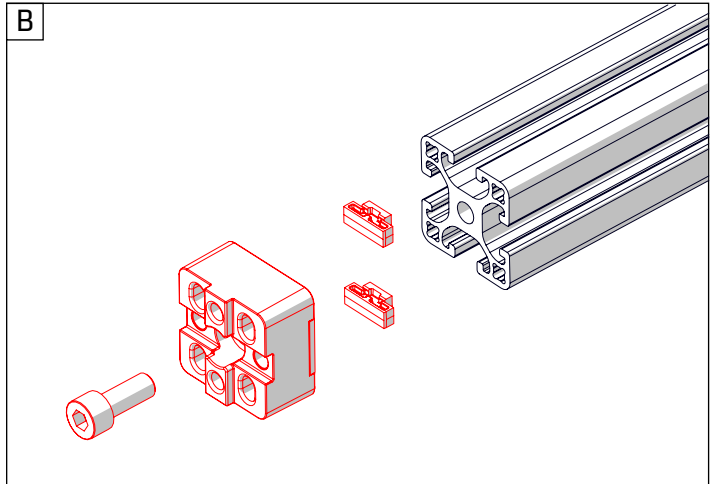
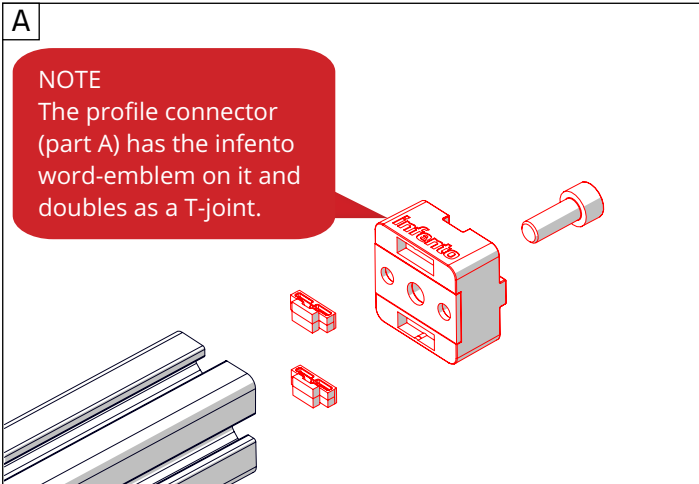
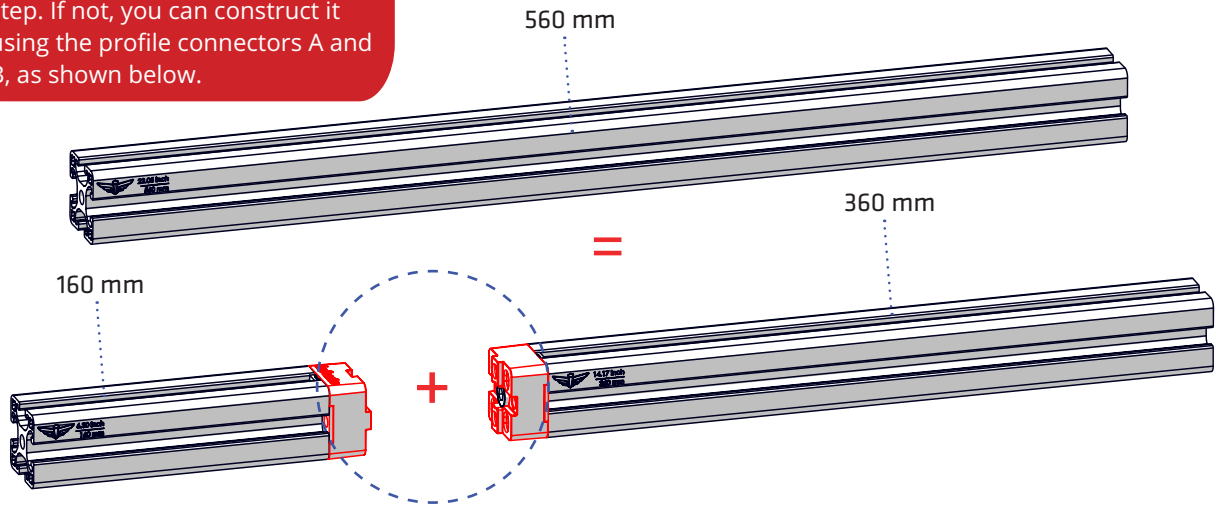


6

ride CATERPILLAR XL



If you have the **560 mm** profile in your kit, please skip to the next step. If not, you can construct it using the profile connectors A and B, as shown below.

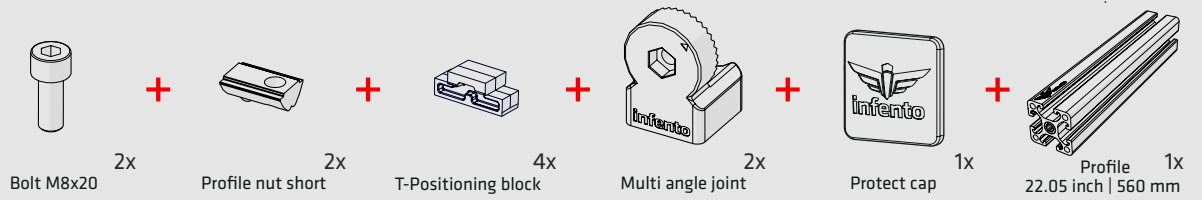




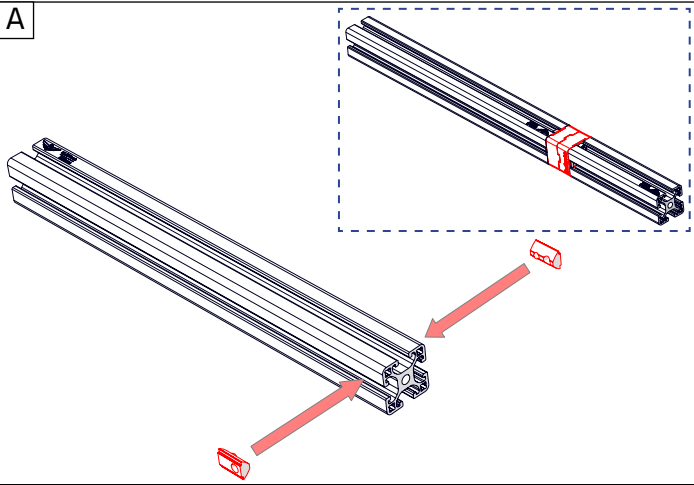


# 7

ride CATERPILLAR XL

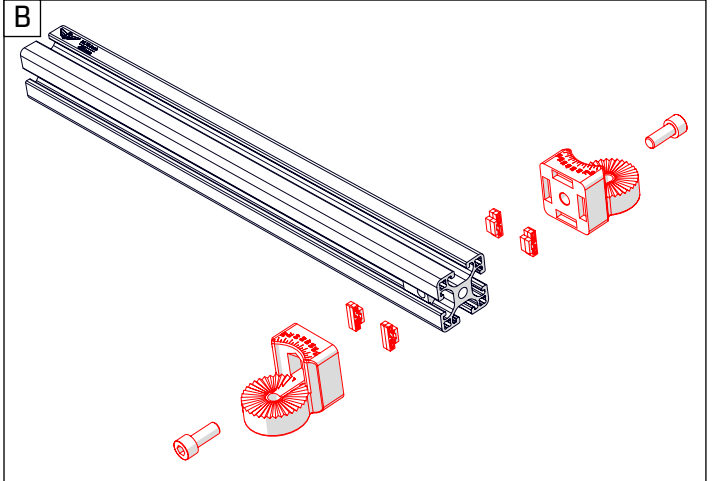


A

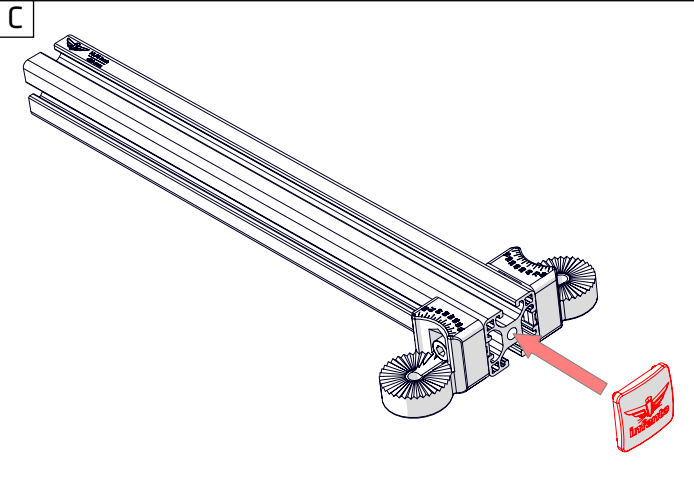


**NOTE**  
Place the profile connector in the same orientation as shown here, then follow step A.

B



C



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.





8

ride CATERPILLAR XL



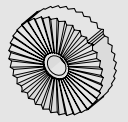
Bolt M8x35

2x



Locknut M8

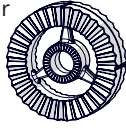
2x



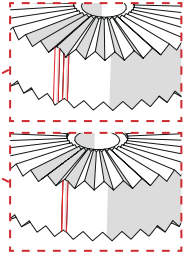
Knurled disc 2 stripes

2x

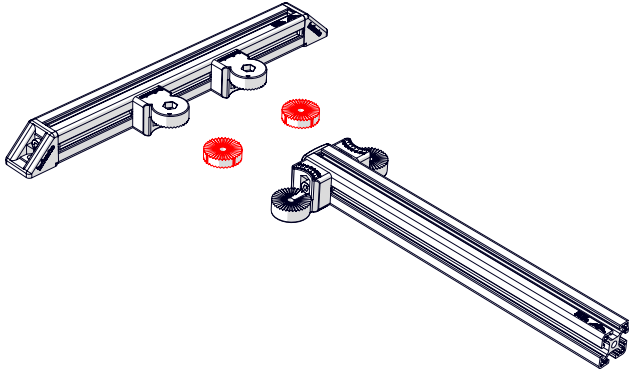
Depending on your Kit, the knurled discs can be of a different type, looking like this:



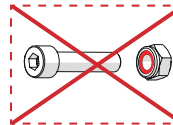
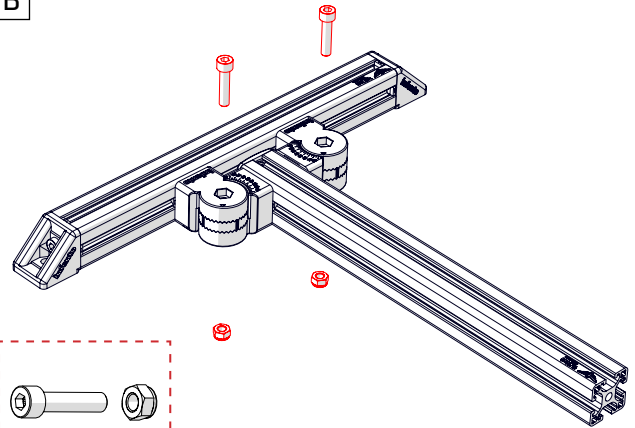
There are two types of knurled discs. Please see education section.



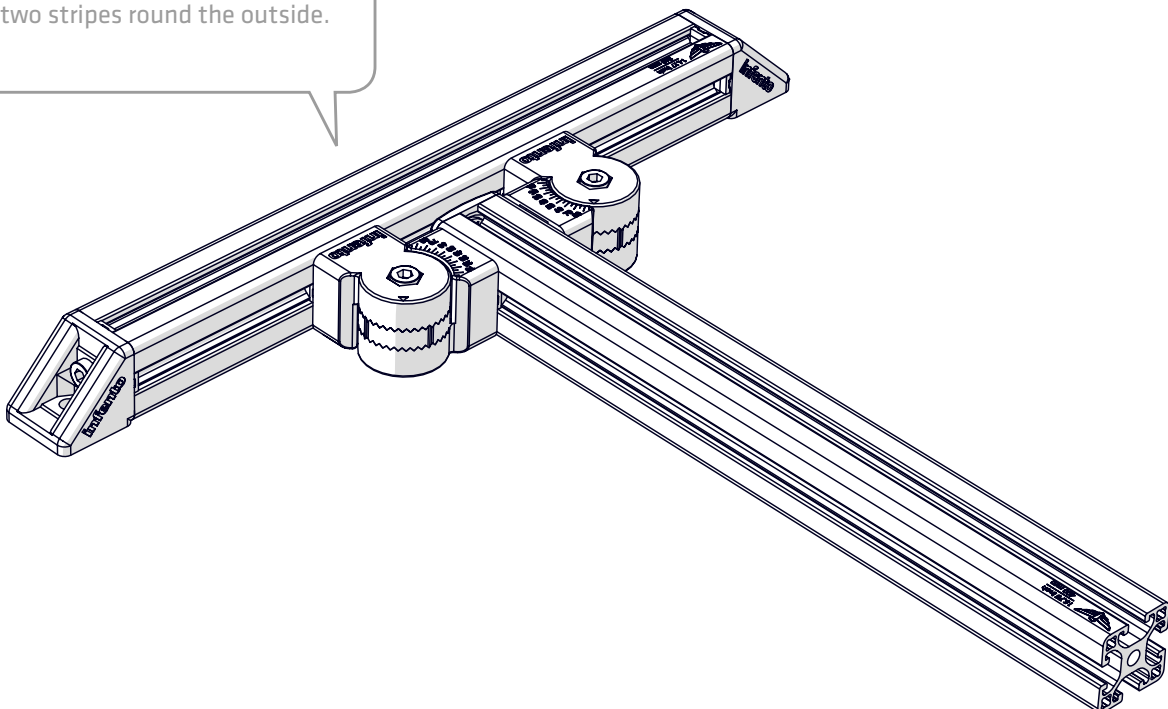
A



B



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.





9

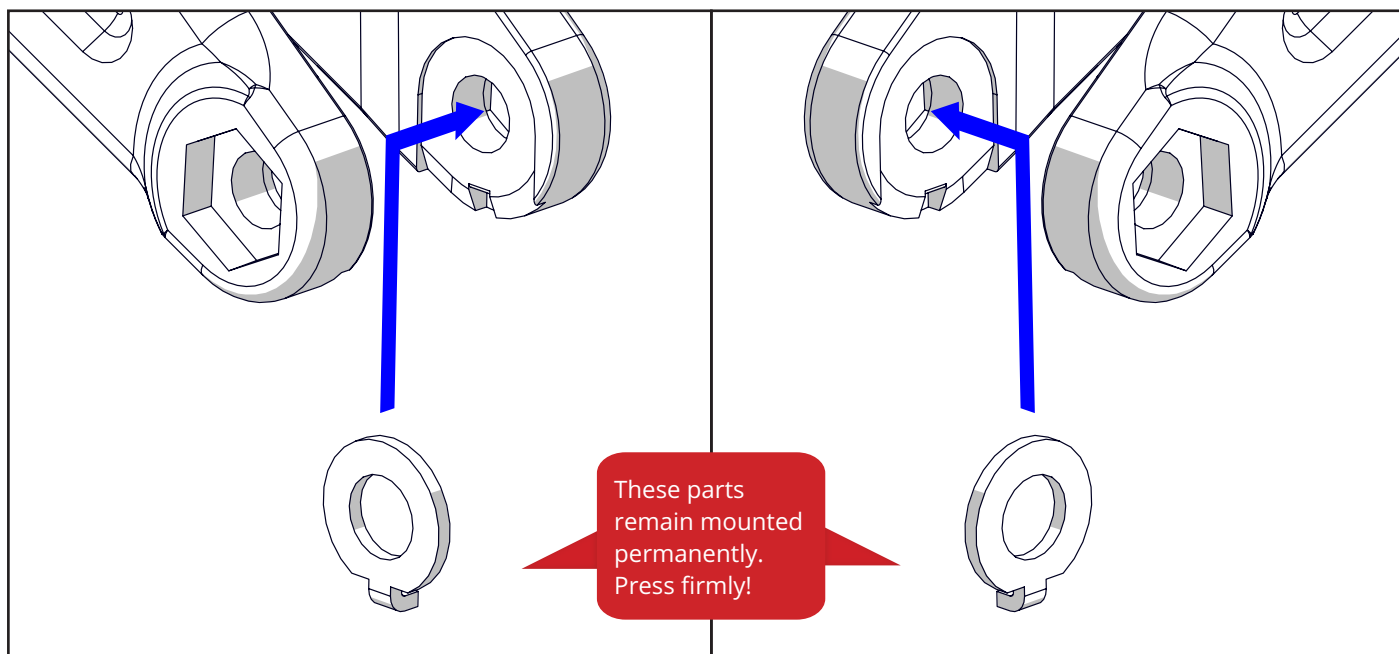
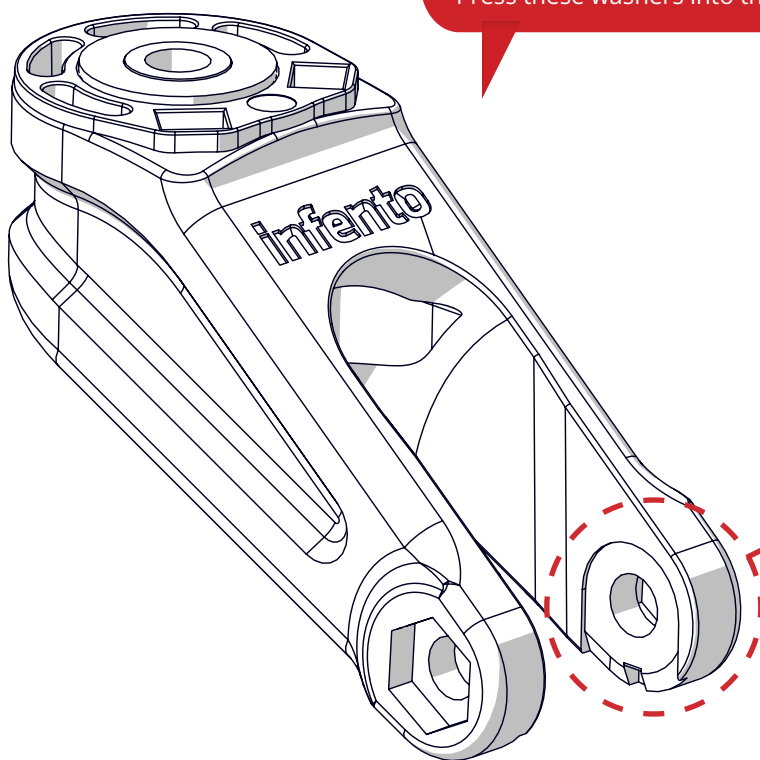
ride CATERPILLAR XL

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.





# 10

ride CATERPILLAR XL



Bolt M8x45

1x

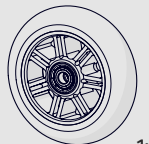
+



Locknut M8

1x

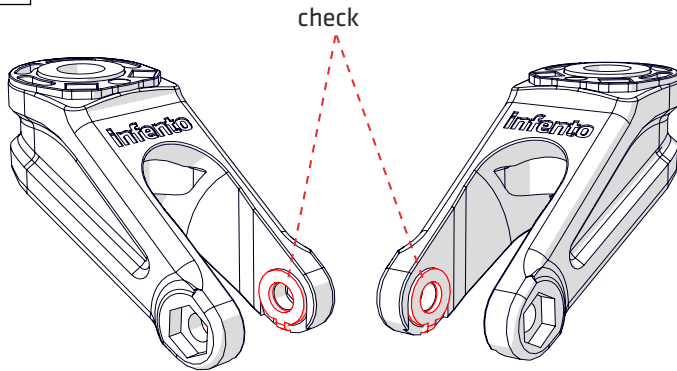
+



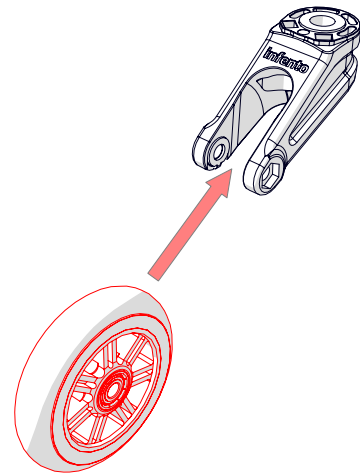
4 inch wheel

1x

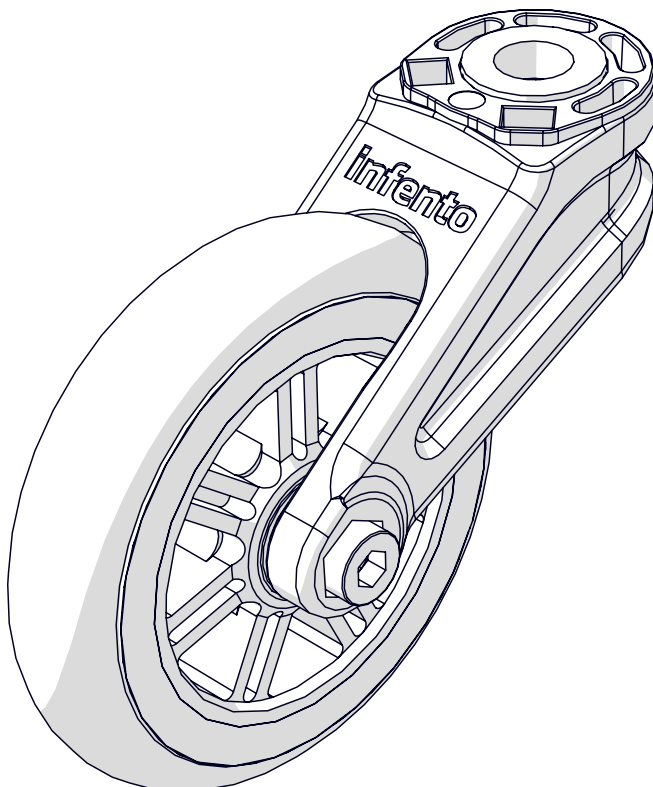
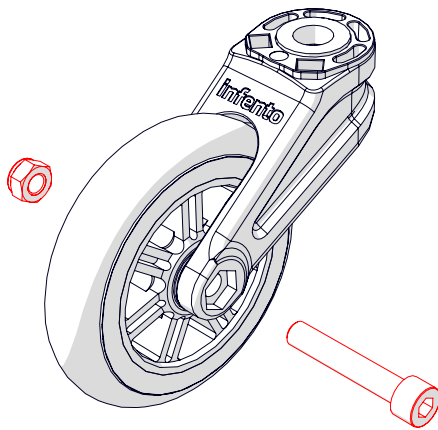
A



B



C

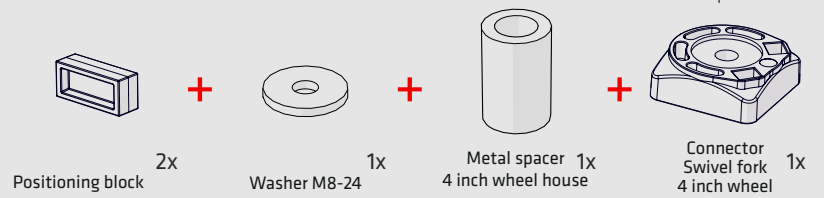


The positioning blocks are some of the smallest Infento parts but they are also some of the most important. They ensure that everything connects to each other properly. This prevents parts from twisting and coming loose when under pressure. Therefore, always use at least two positioning blocks per block.

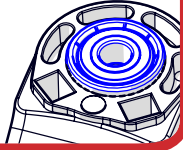


11

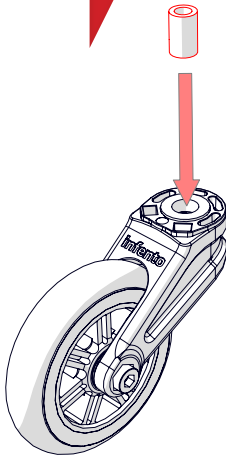
ride CATERPILLAR XL



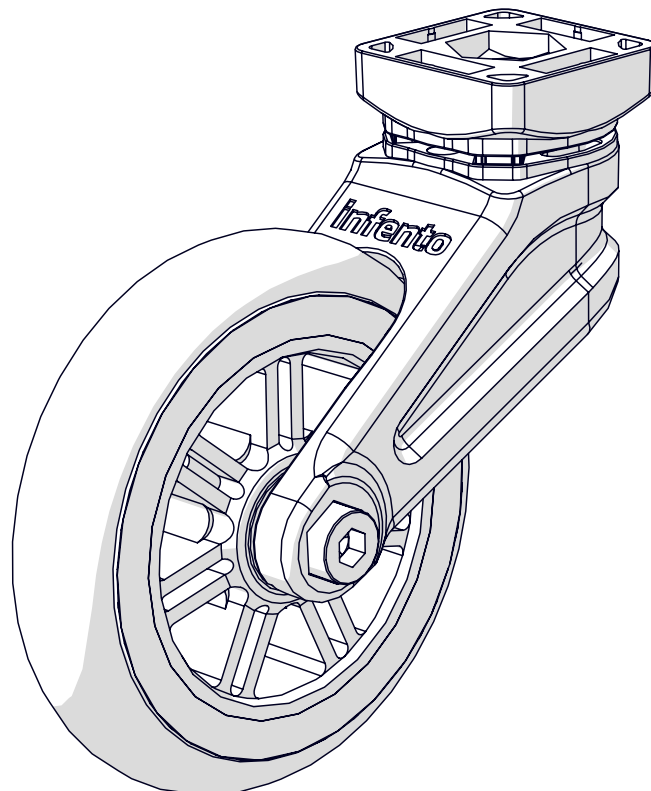
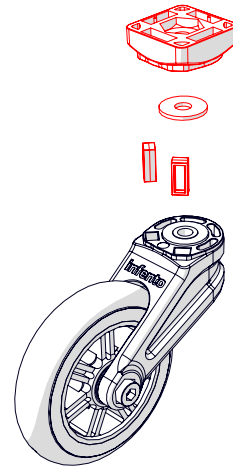
If your **Swivel Fork 4" Wheel** contains a metal bearing on top (instead of a red plastic ring), you can skip this step!



A



B





12

ride CATERPILLAR XL

Bolt M8x60 1x

+



Washer M8-16 3x

+

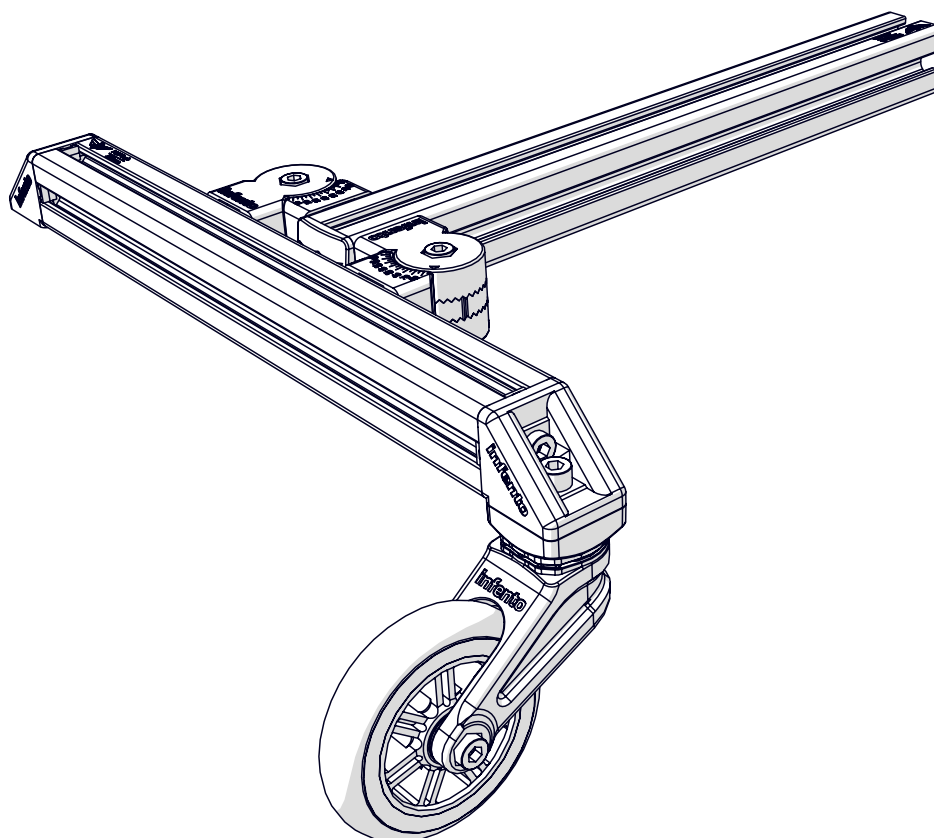
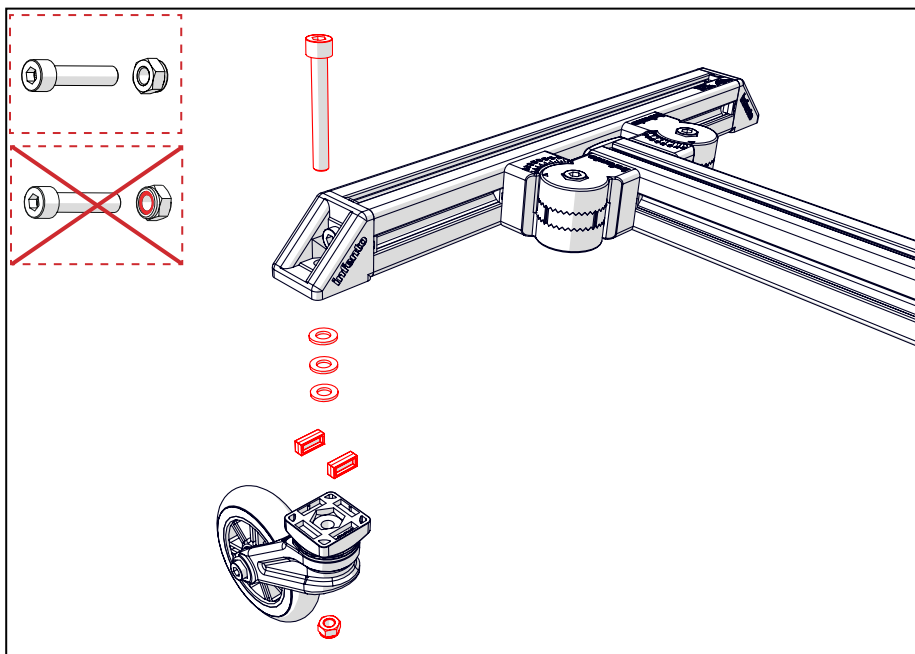


Positioning block 2x

+



Locknut M8 1x





13

ride CATERPILLAR XL



Bolt M8x45

1x

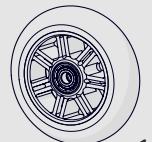
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Locknut M8

1x

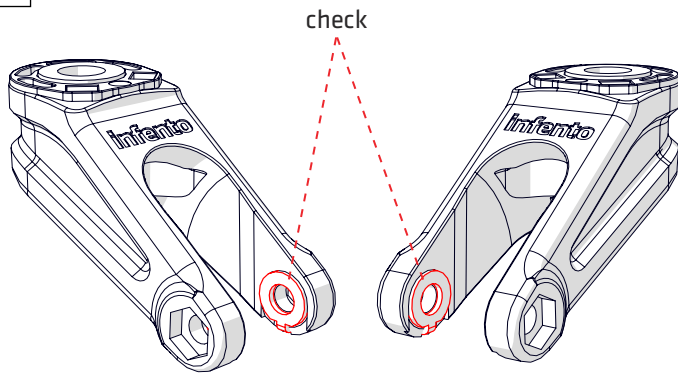
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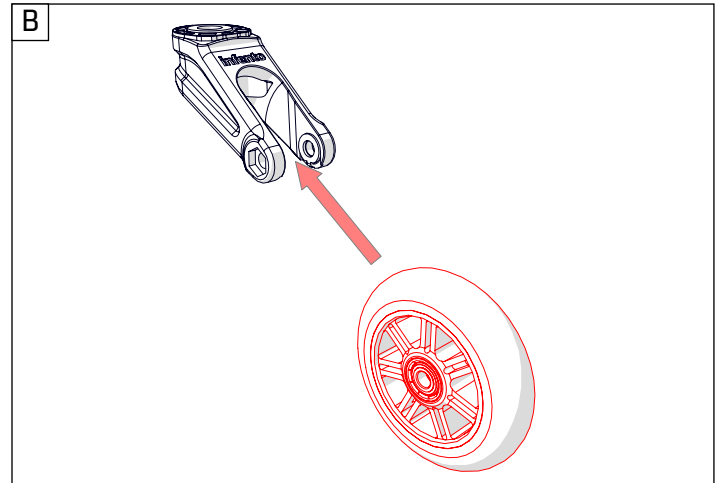
4 inch wheel

1x

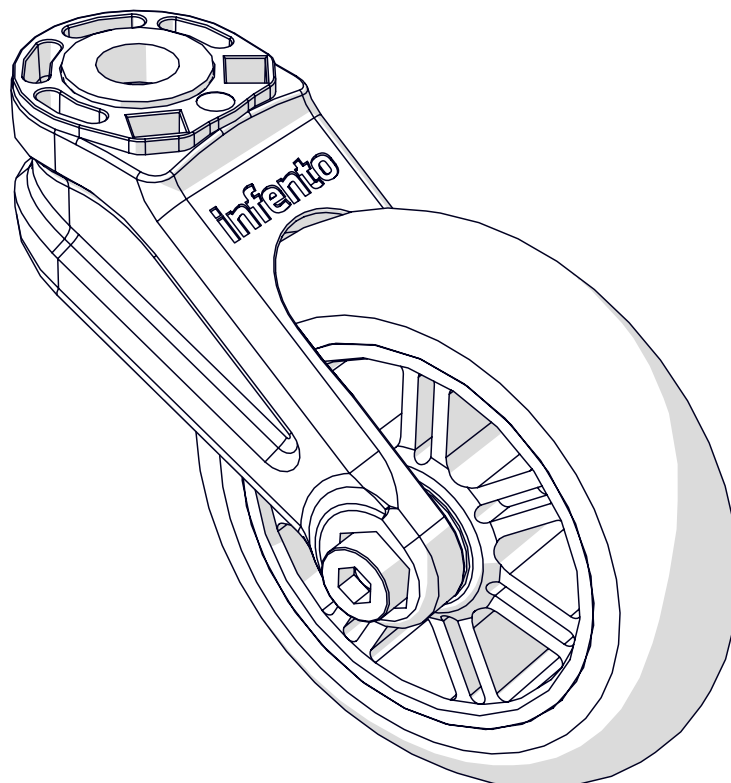
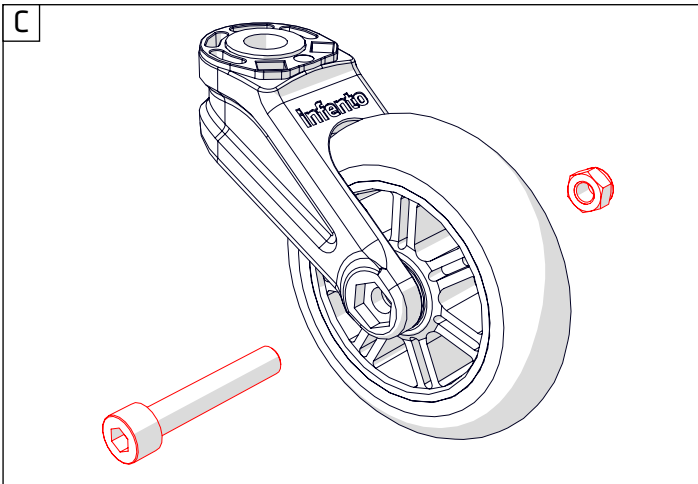
A



B



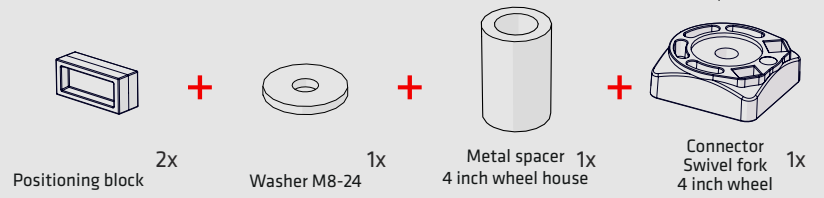
C



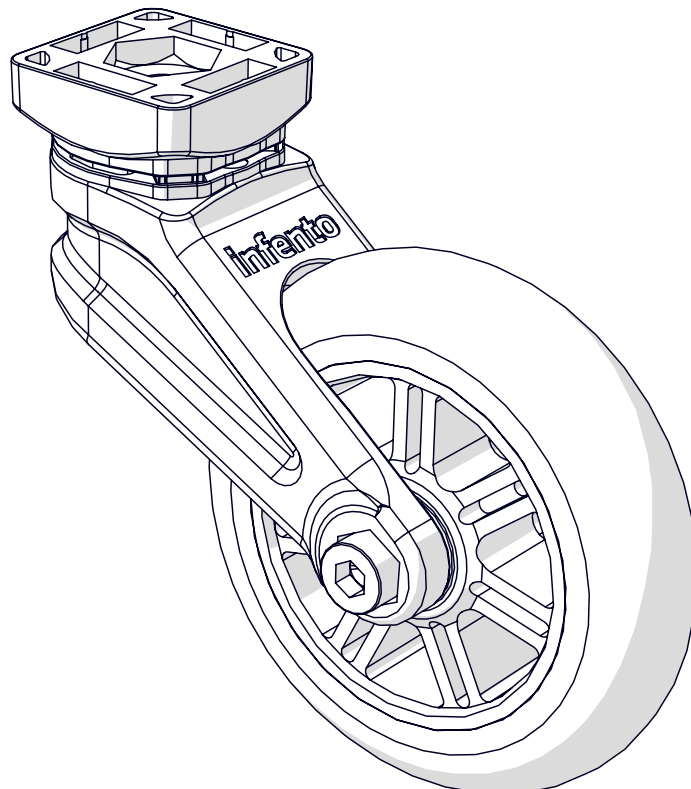
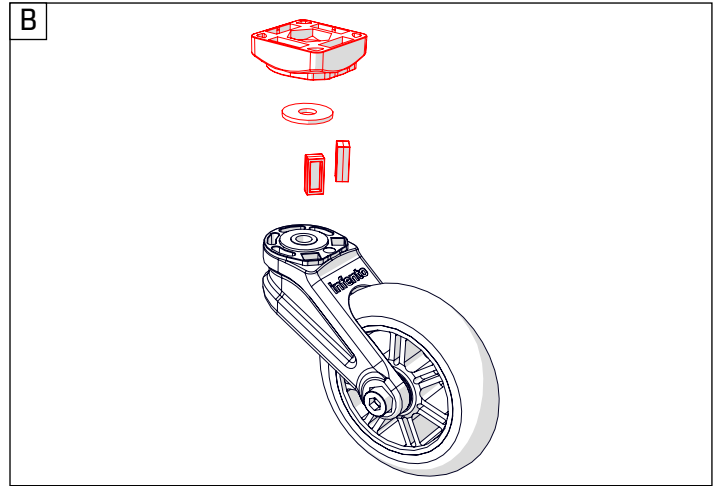
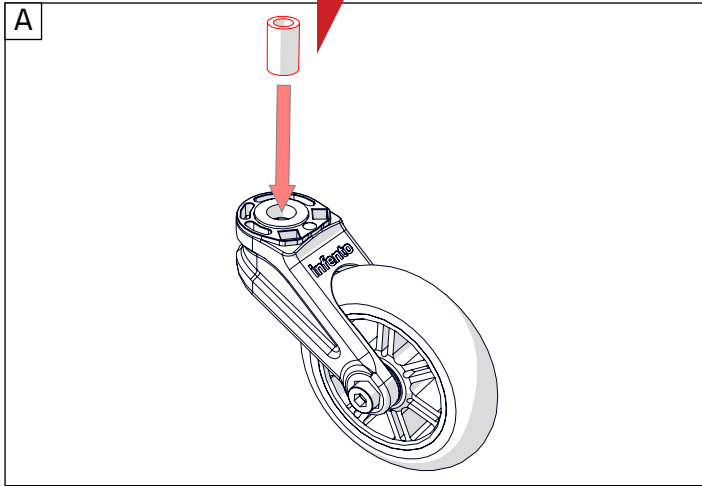
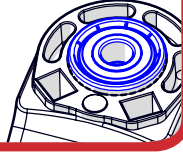


# 14

ride CATERPILLAR XL



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







15

ride CATERPILLAR XL

Bolt M8x60 1x

+

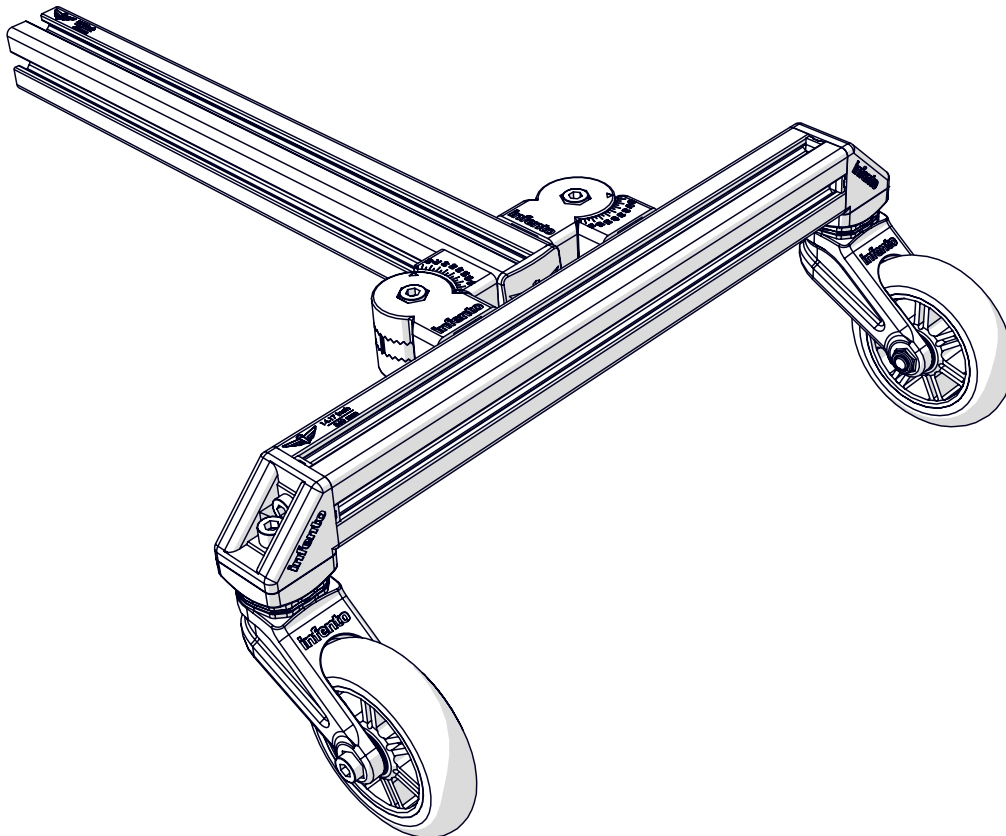
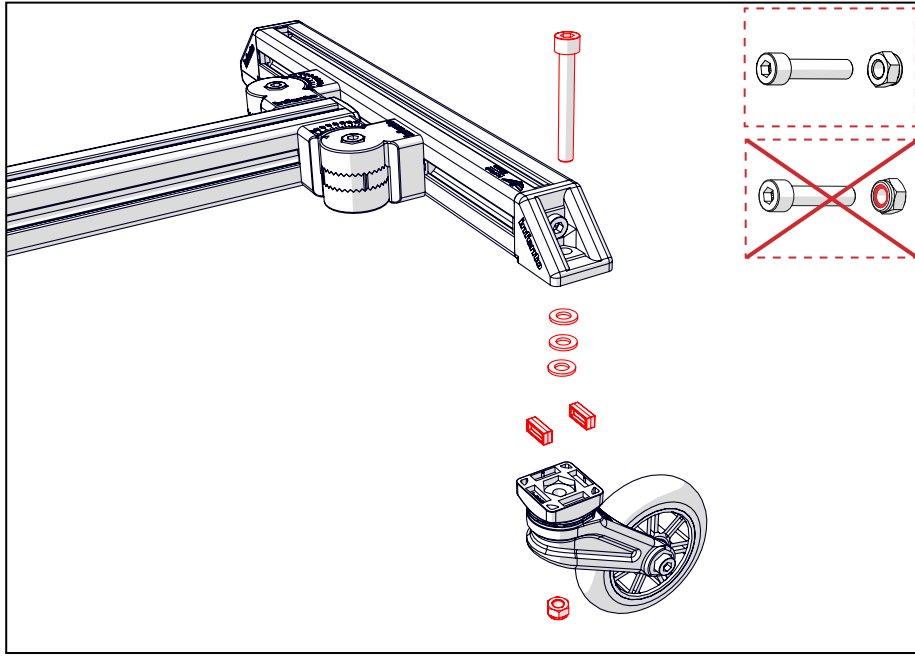
Washer M8-16 3x

+

Positioning block 2x

+

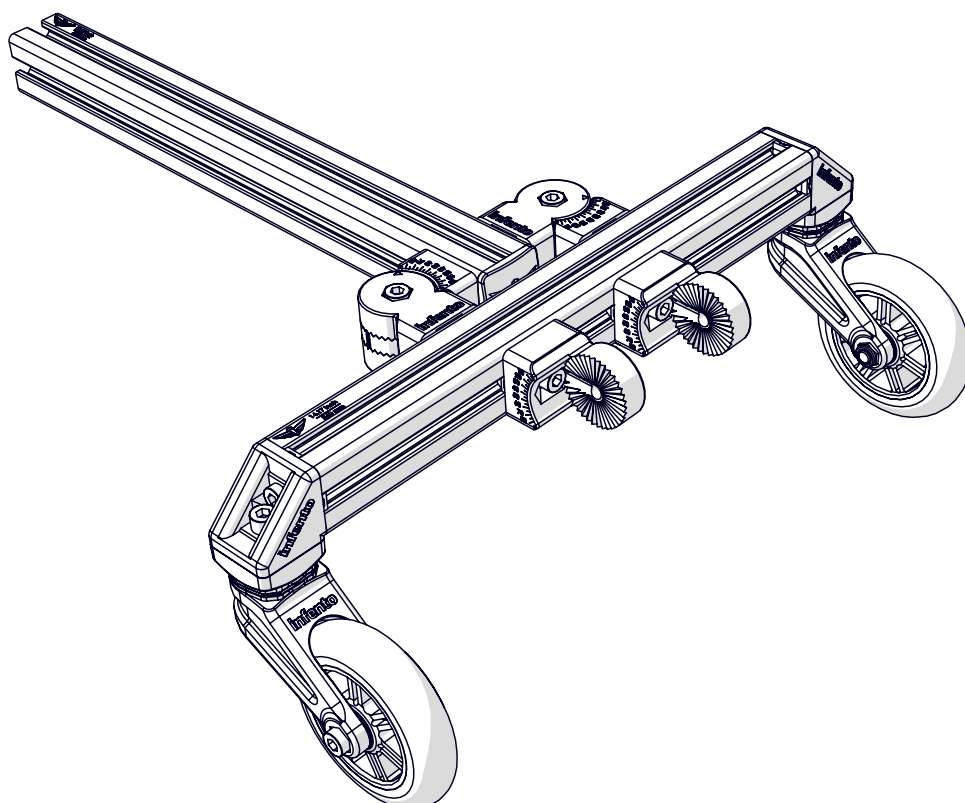
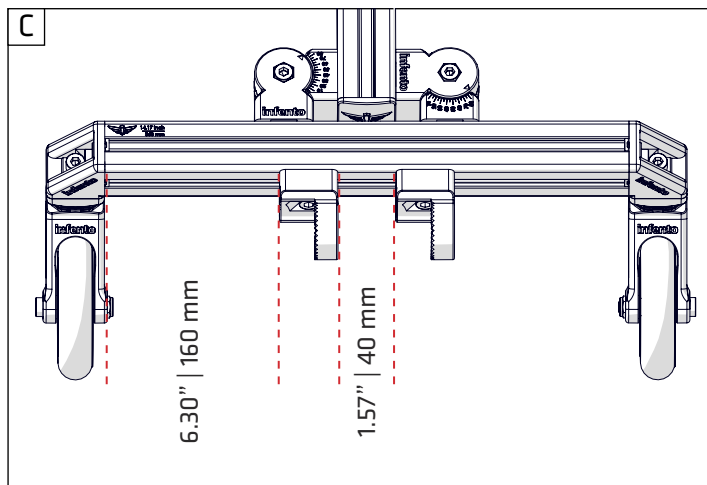
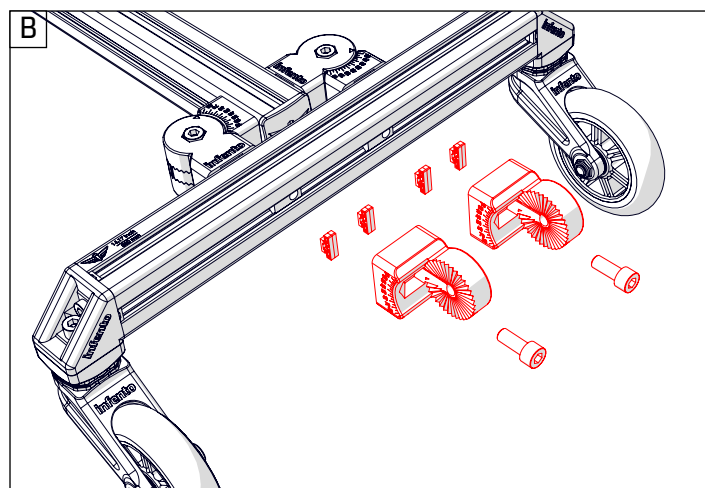
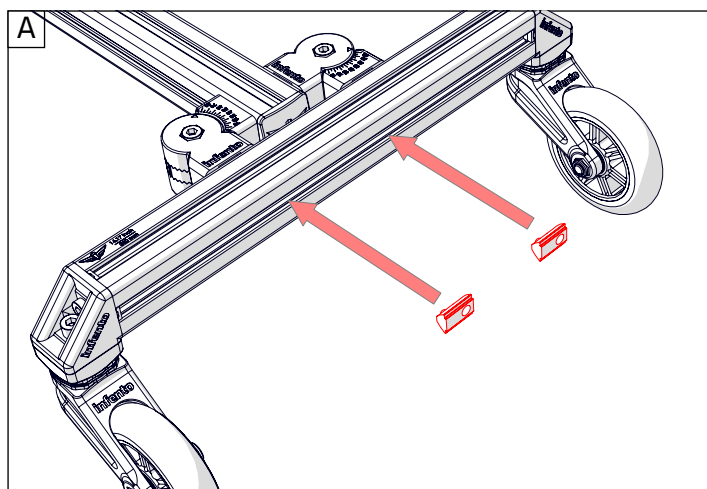
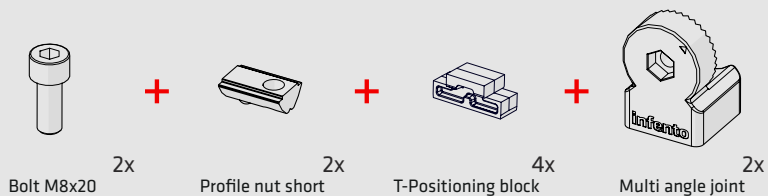
Locknut M8 1x





16

ride CATERPILLAR XL





17

ride CATERPILLAR XL

Bolt M8x20 3x  
(low head)

+

T-Positioning block 6x

+

Profile nut short 2x

+

L-joint 3x

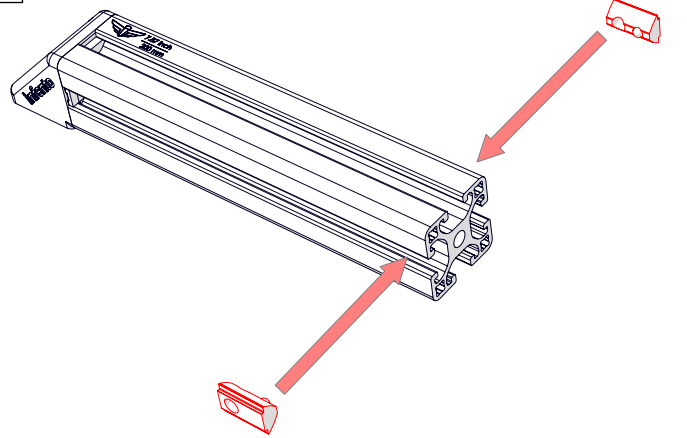
+

Profile 1x  
7.87 inch | 200 mm

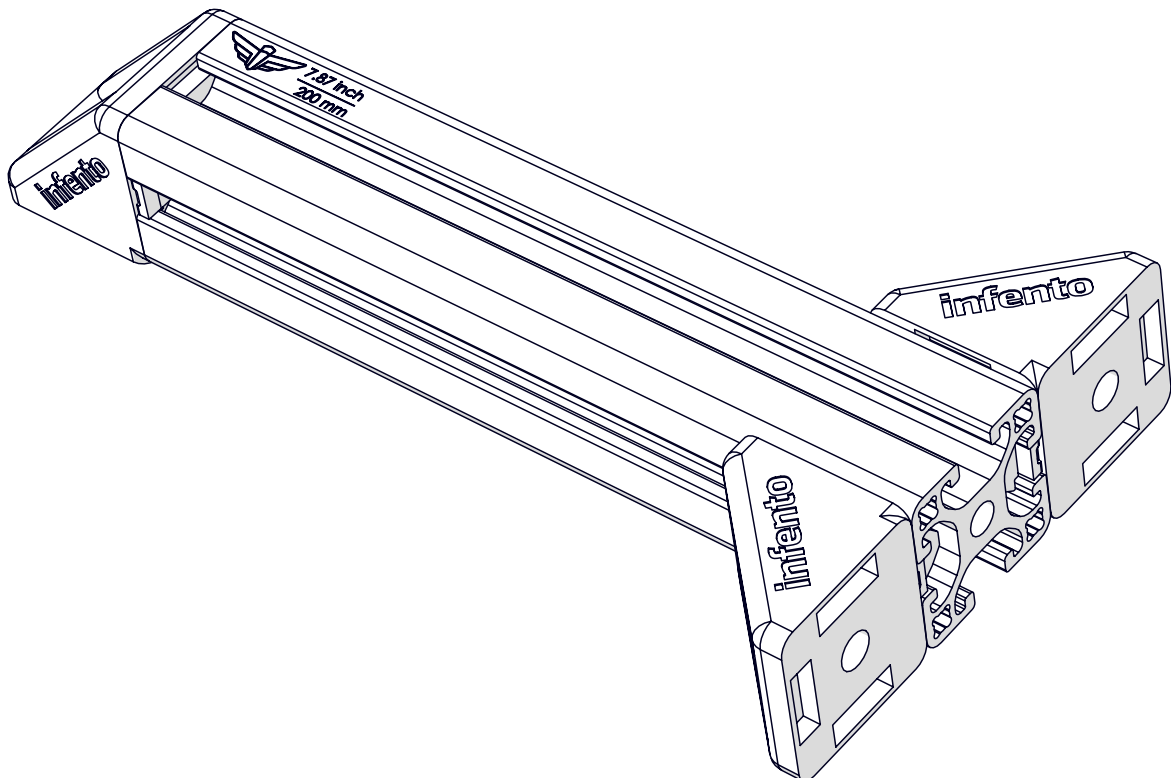
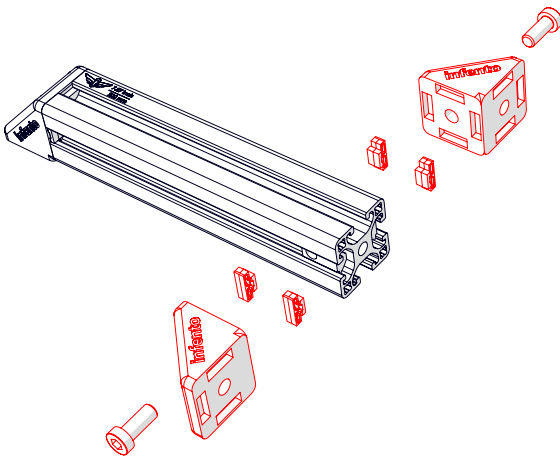
A



B



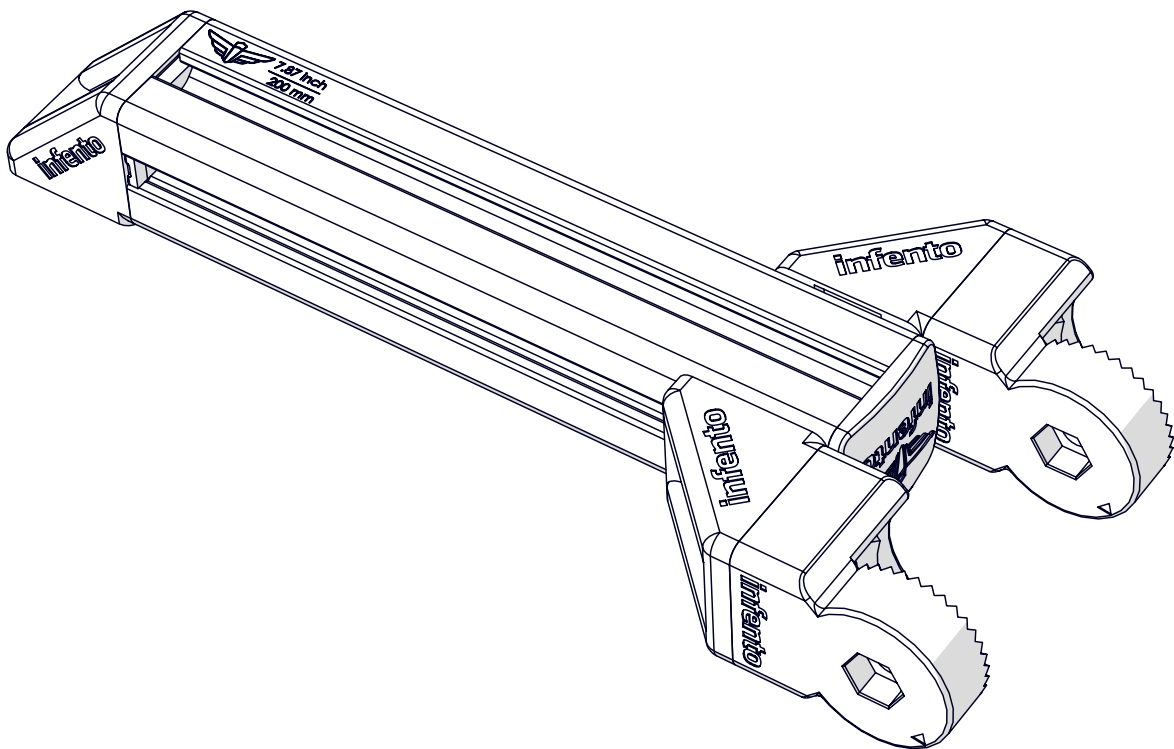
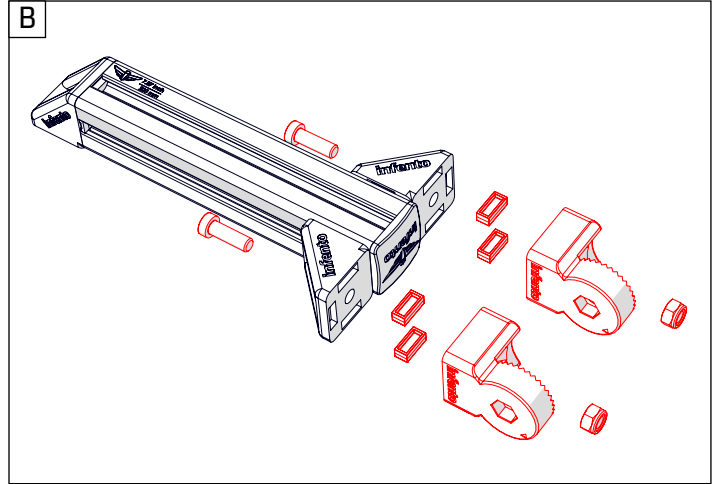
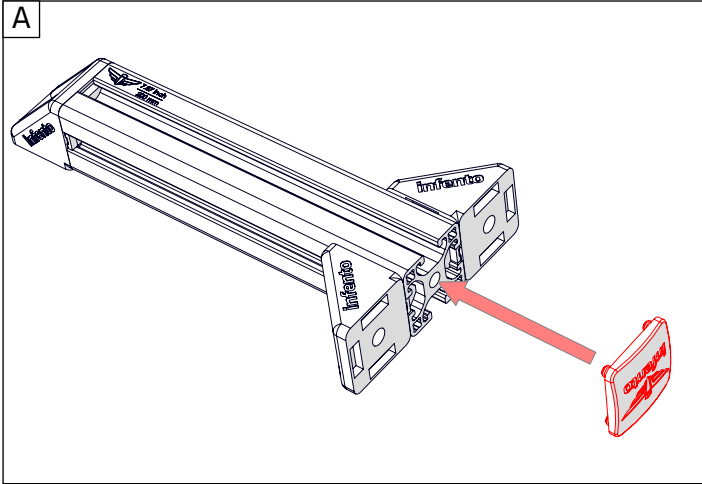
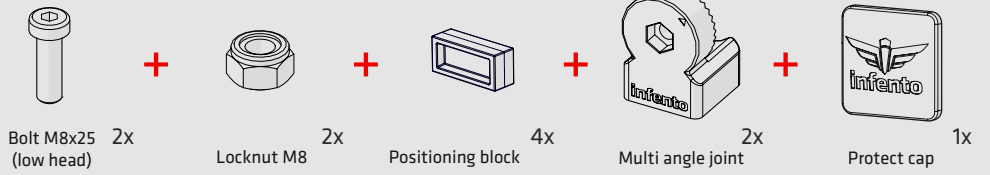
C





18

ride CATERPILLAR XL





19

ride CATERPILLAR XL



Bolt M8x35

2x

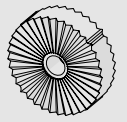
+



Locknut M8

2x

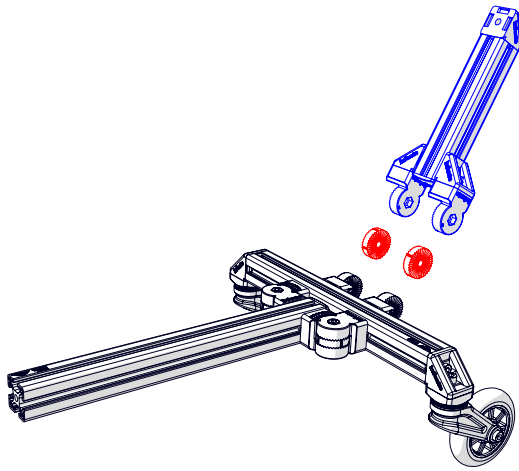
+



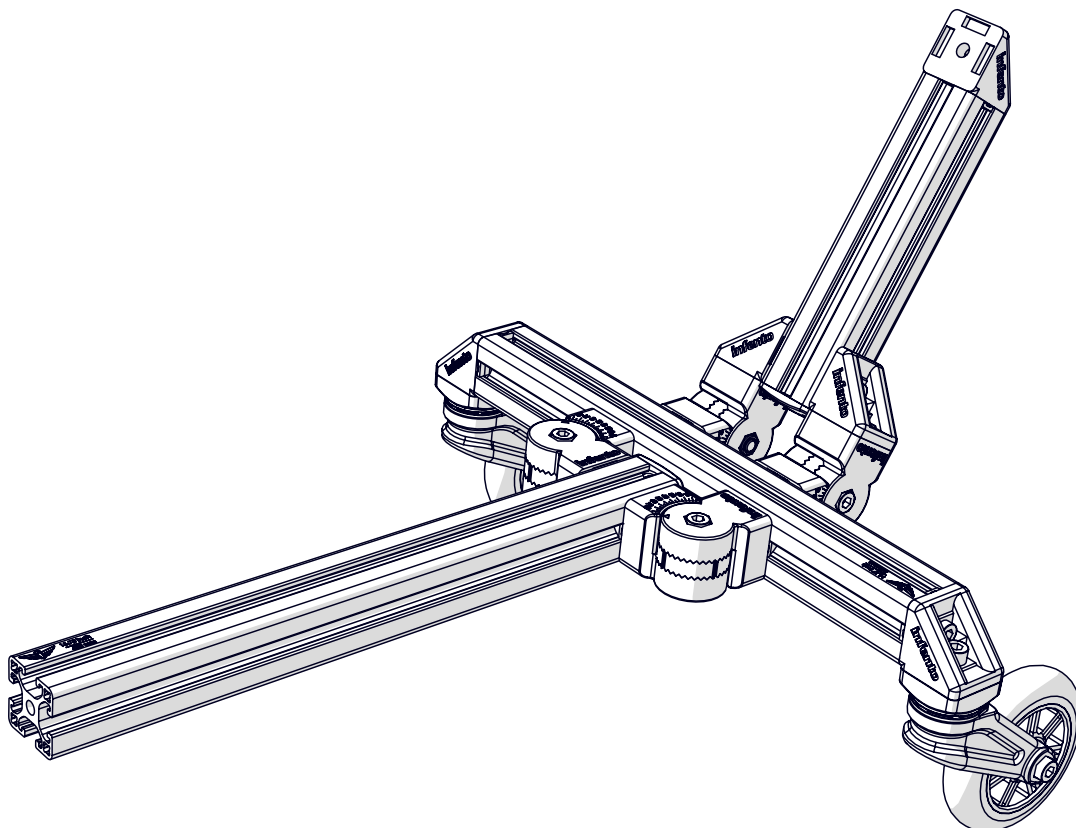
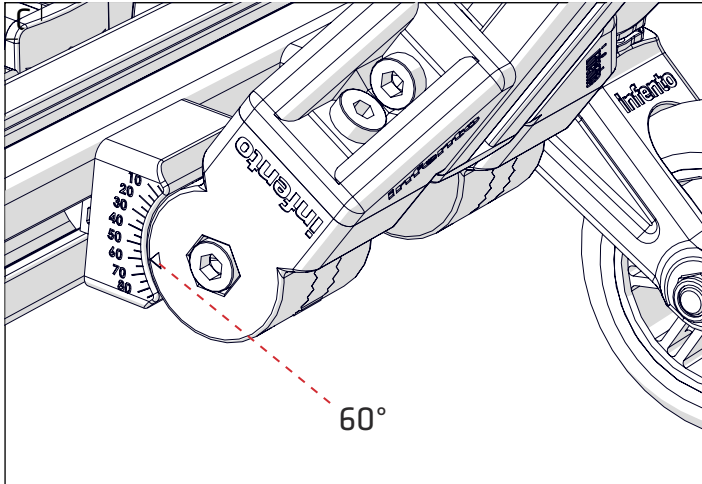
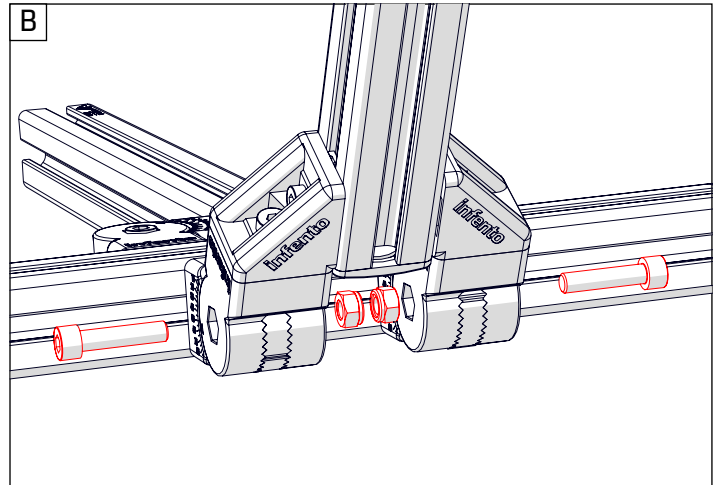
Knurled disc 2 stripes

2x

A



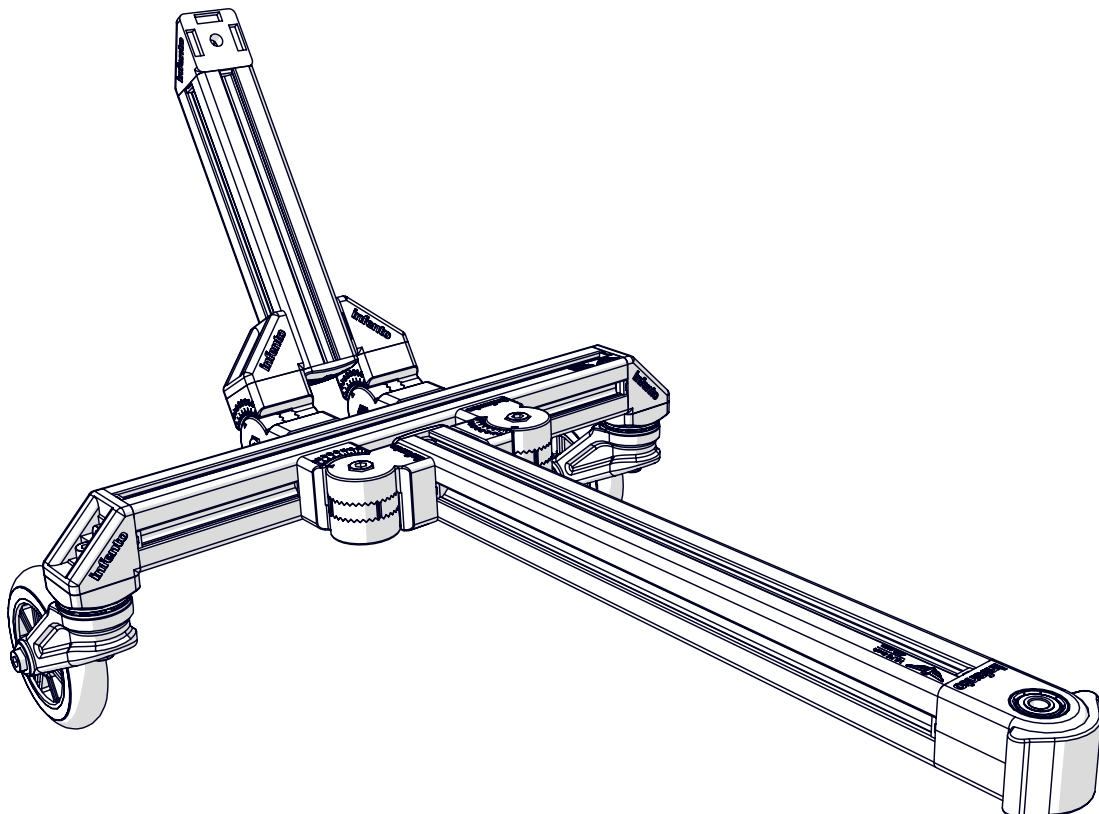
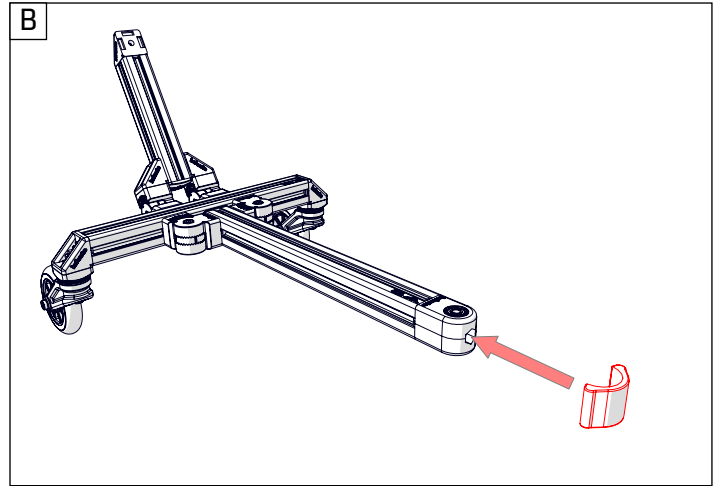
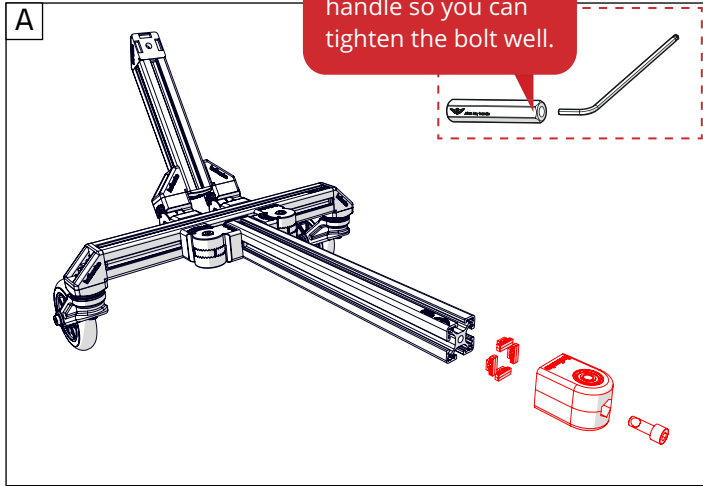
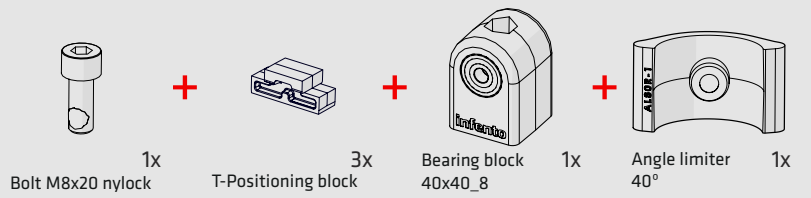
B





20

ride CATERPILLAR XL







21

ride CATERPILLAR XL



Bolt M8x20  
(low head) 1x

+



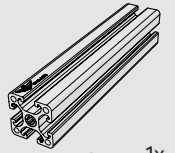
T-Positioning block 3x

+

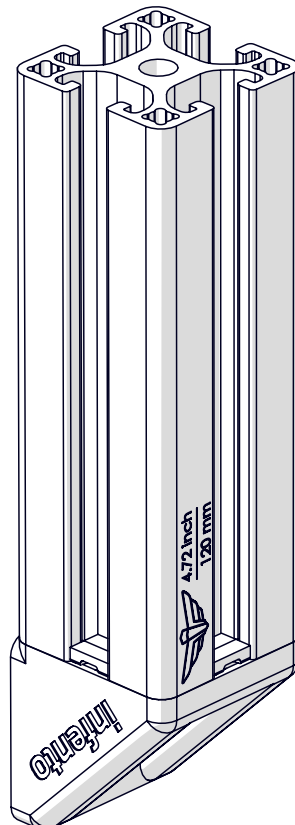
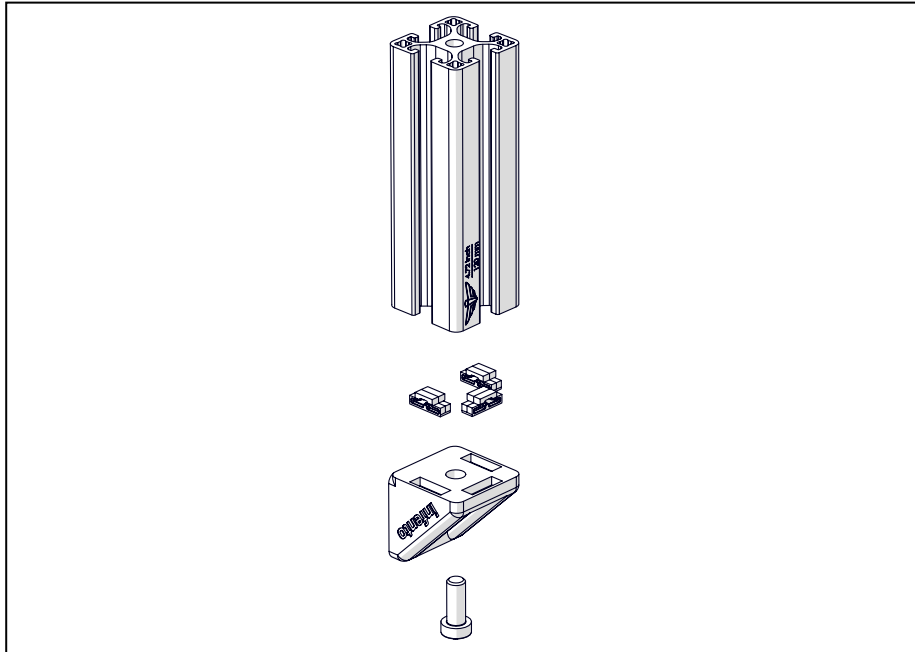


L-joint 1x

+



Profile 1x  
4.72 inch | 120 mm







# 22

ride **CATERPILLAR XL**

Bolt M8x20  
(low head) 1x

+

Bolt M8x20 nylock 1x

+

T-Positioning block 8x

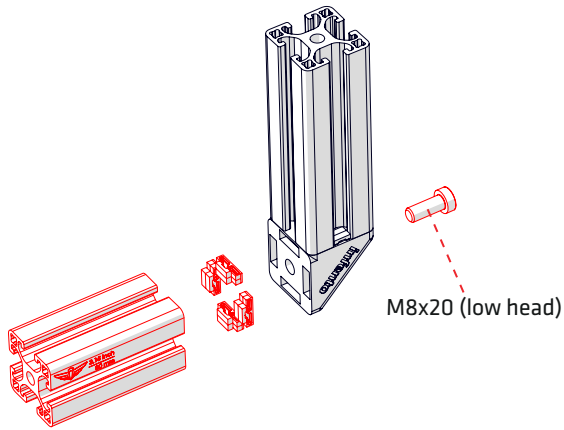
+

Axle clamp 1x

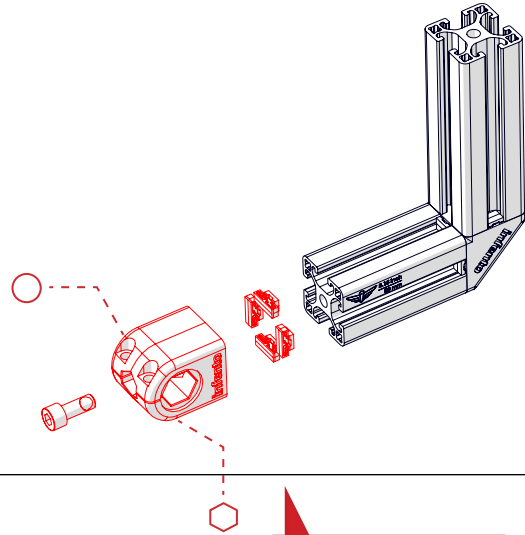
+

Profile 1x  
3.15 inch | 80 mm

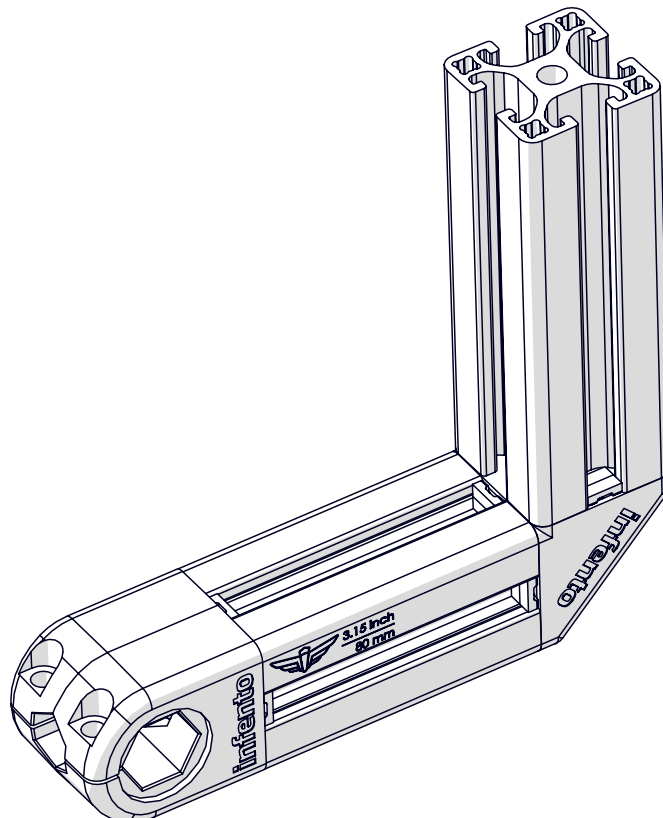
A



B



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





23

ride CATERPILLAR XL



Bolt M6x25

+



Locknut M6

+



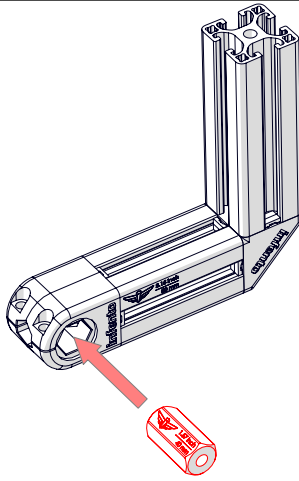
Axle 1x  
1.57 inch | 40 mm

2x

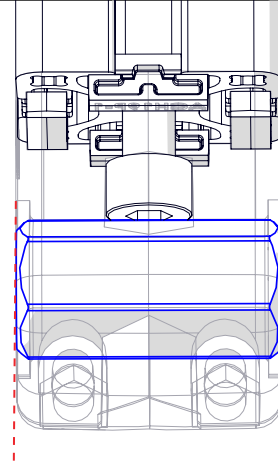
2x

1x

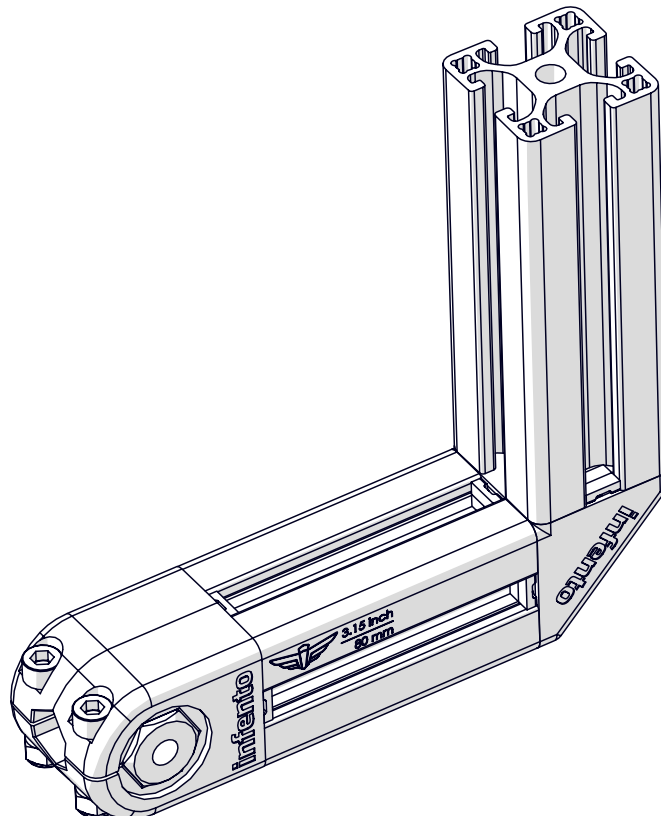
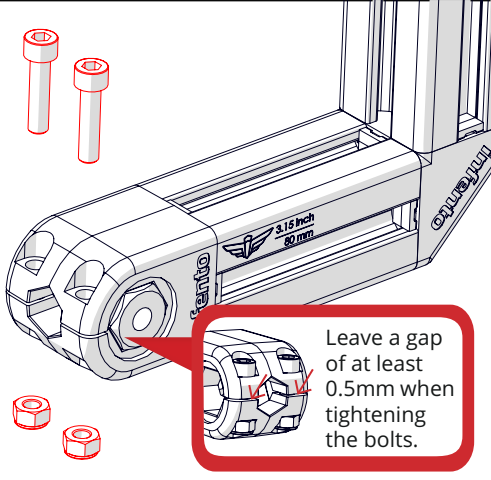
A



B



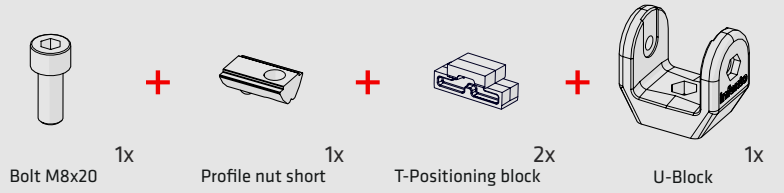
C



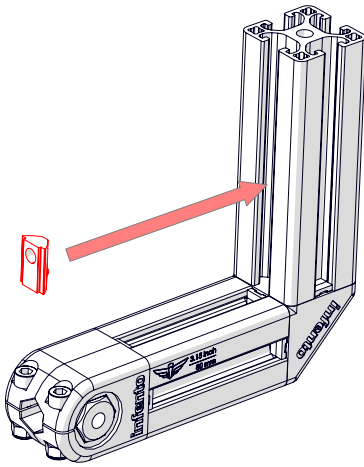


24

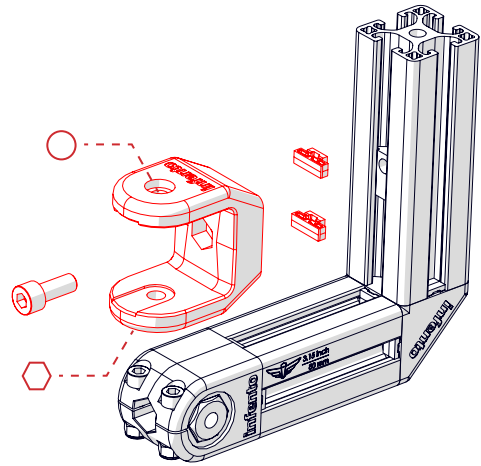
ride CATERPILLAR XL



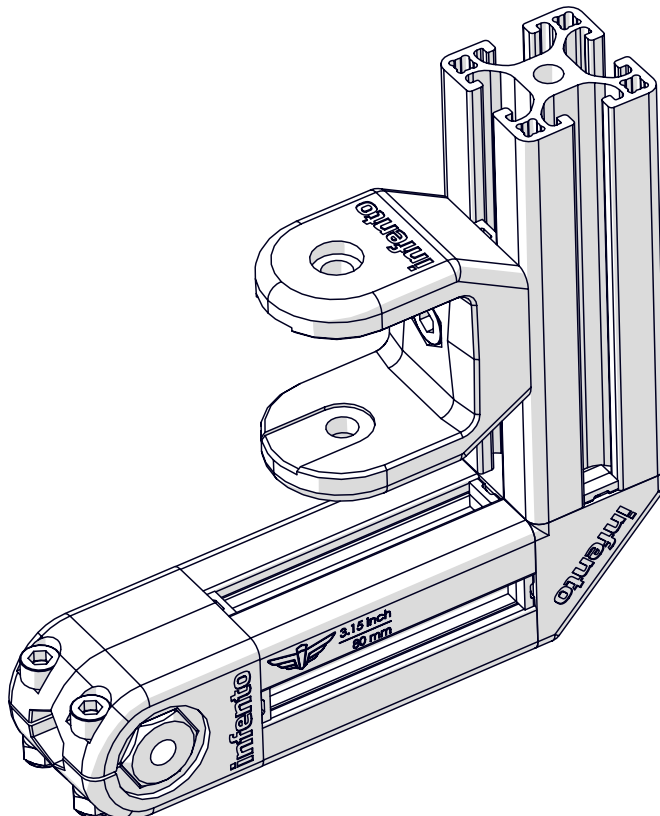
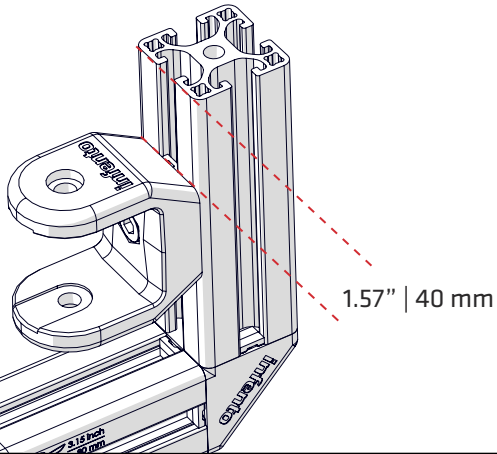
A



B



C

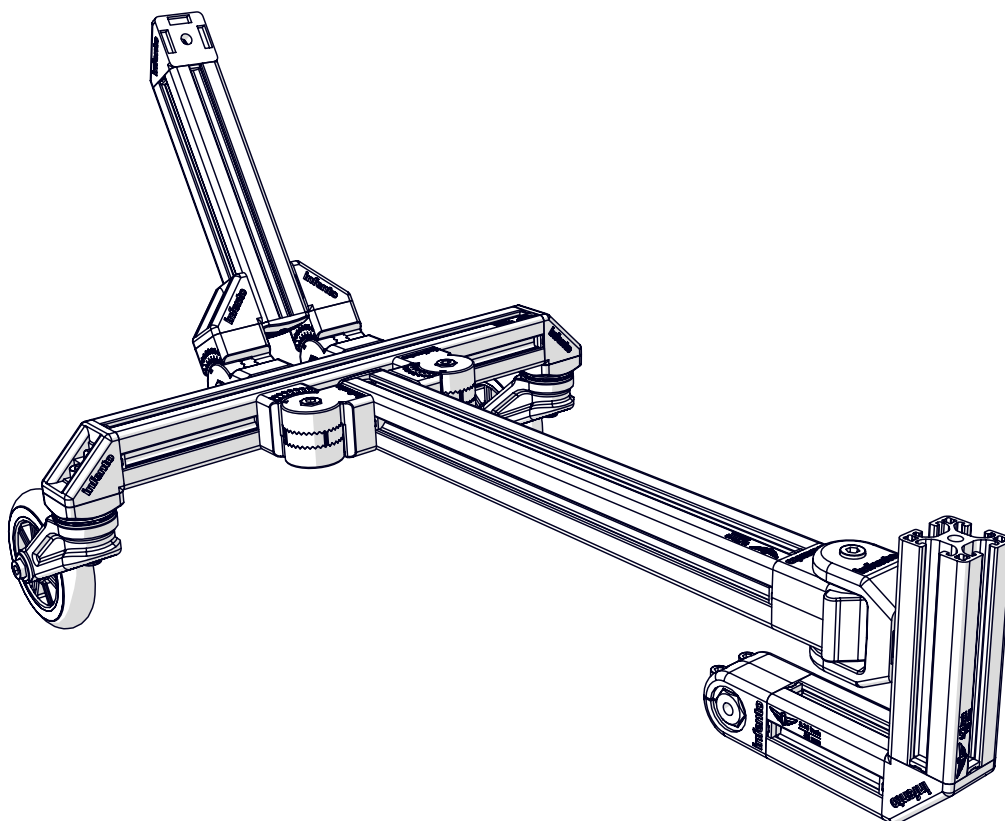
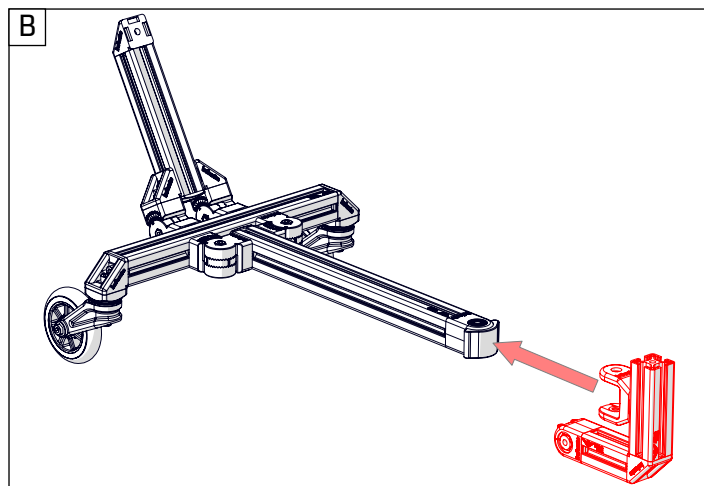
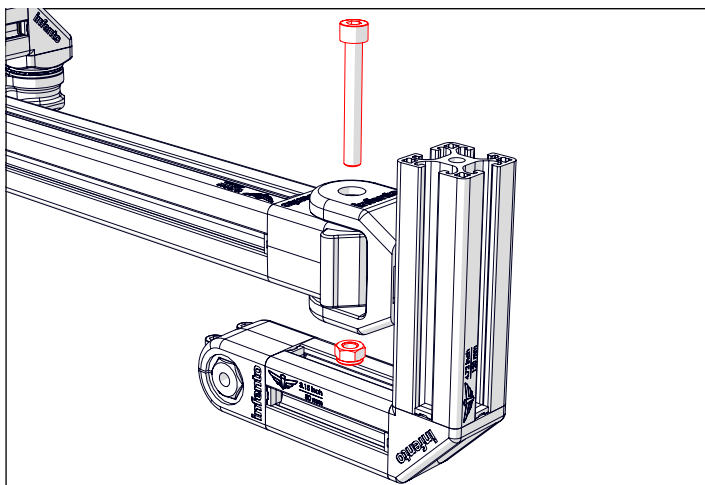
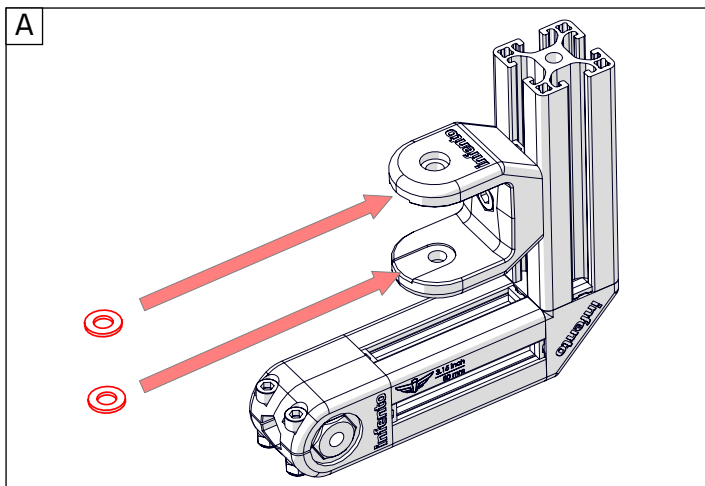




25

ride CATERPILLAR

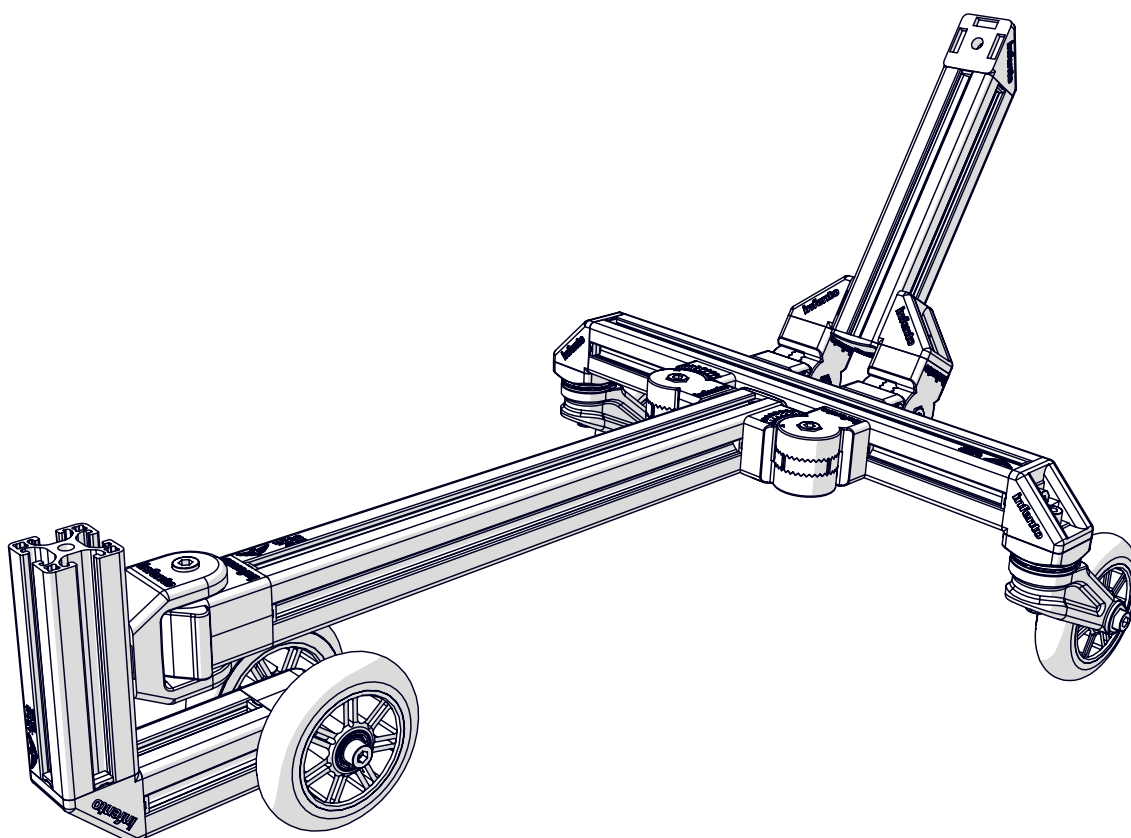
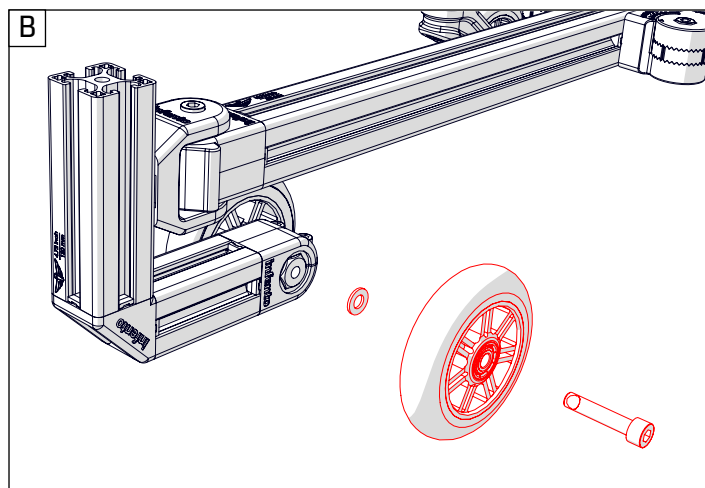
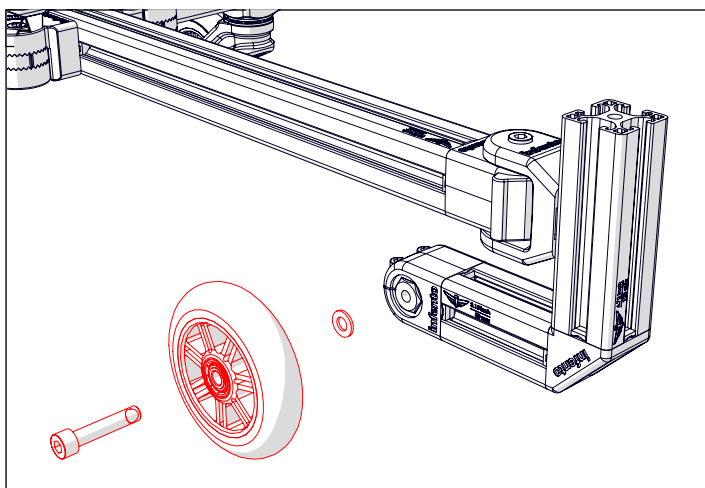
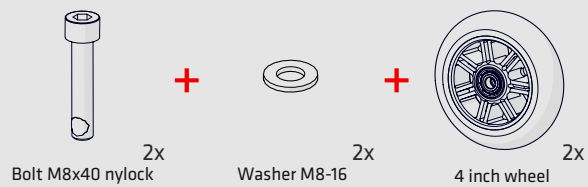
Bolt M8x60 1x + Locknut M8 1x + Washer M8-16 2x





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ride CATERPILLAR XL



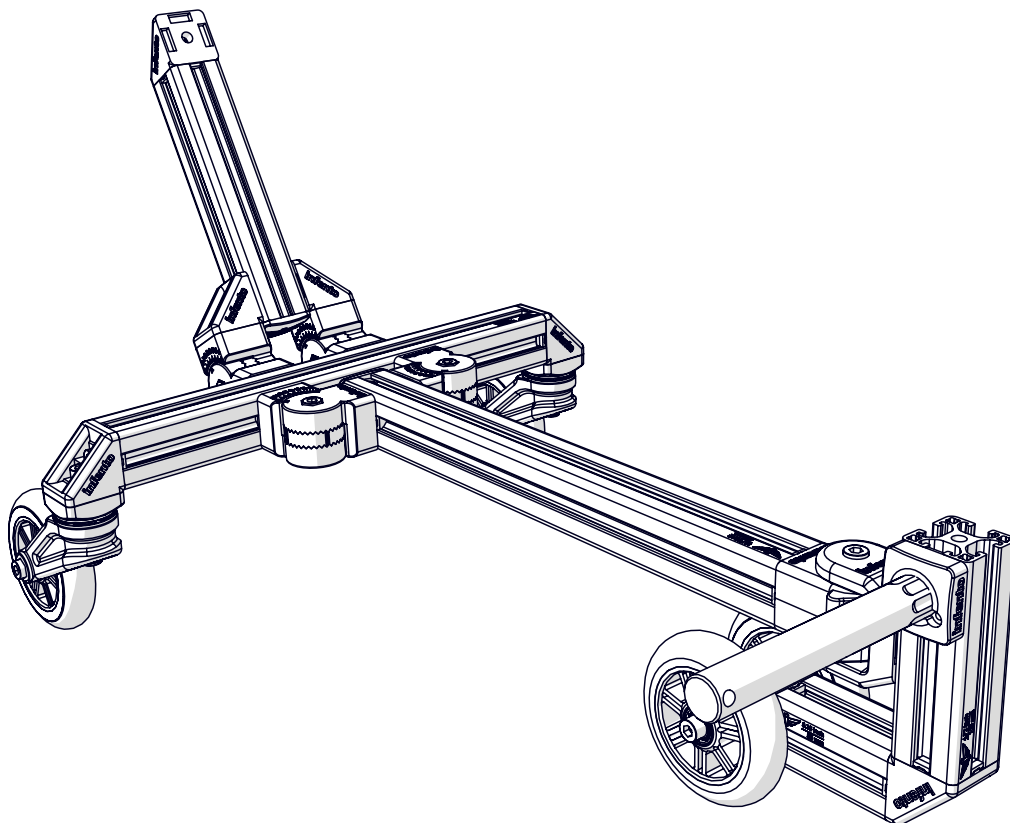
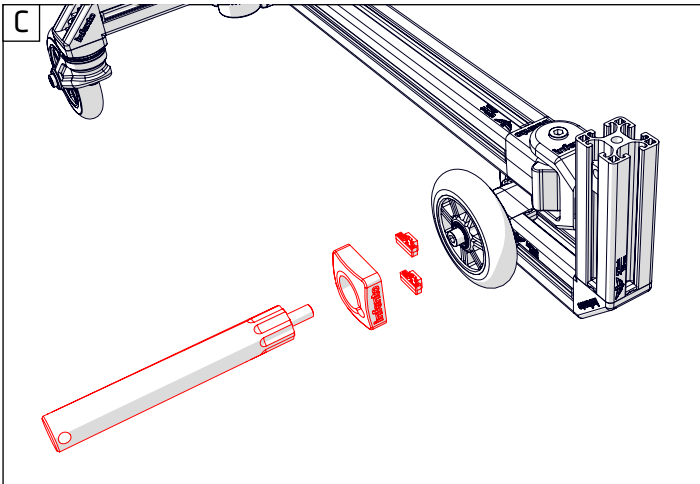
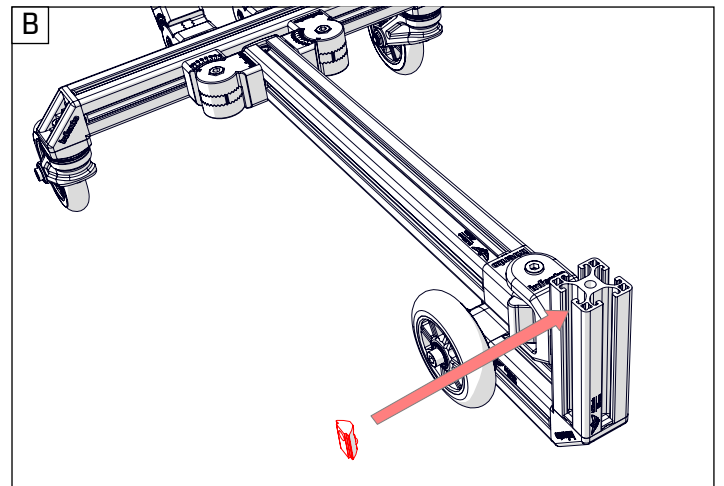
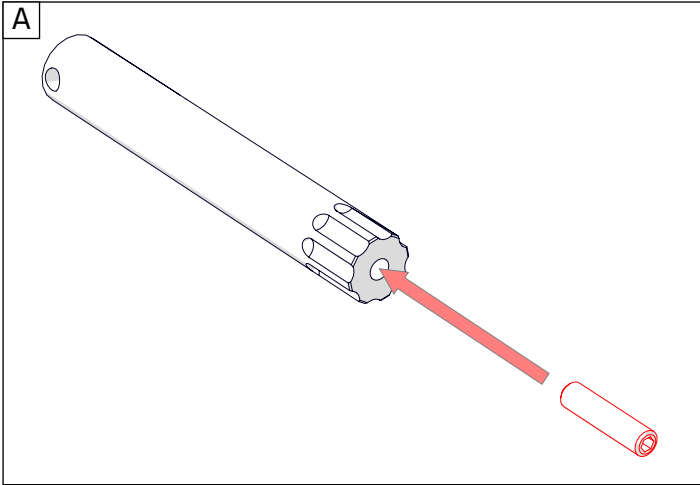


27

ride CATERPILLAR XL

 2x     1x     1x     1x     1x

T-Positioning block    Profile nut short    Axle plate    Adjusting bolt 1x M8x35    Handlebar short



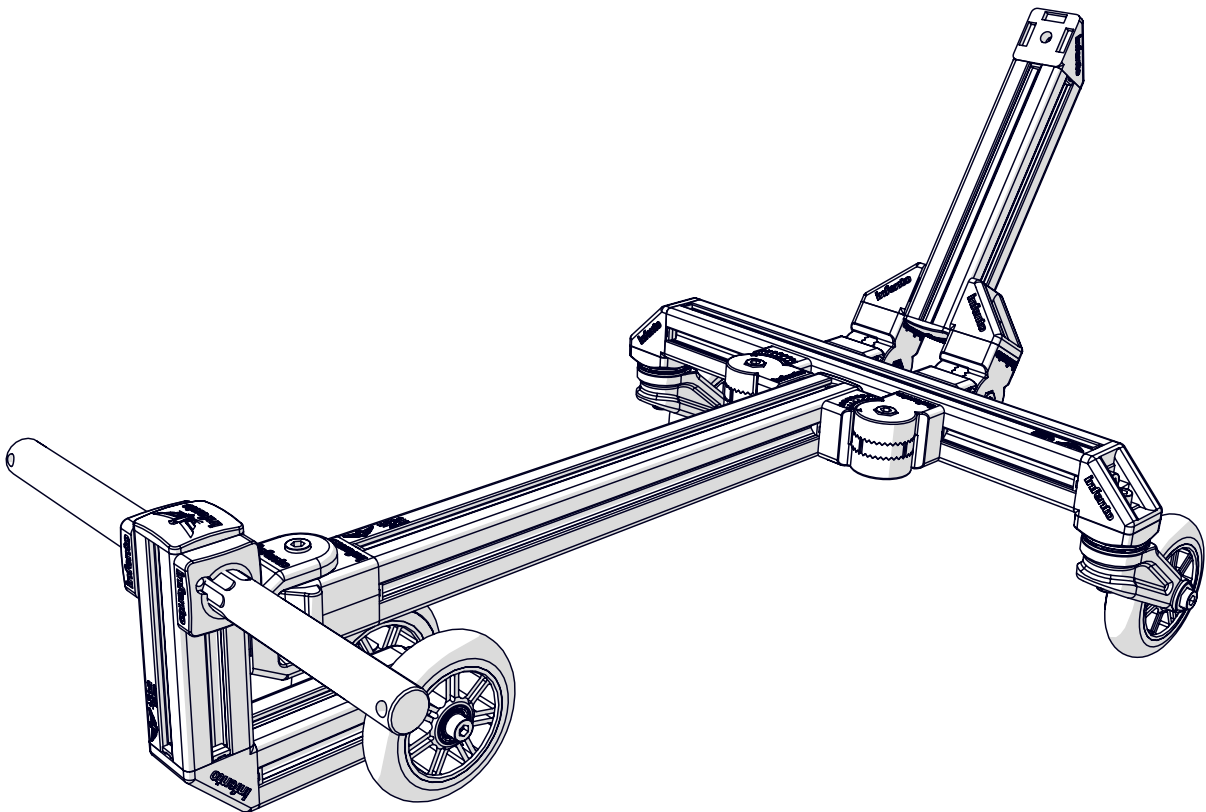
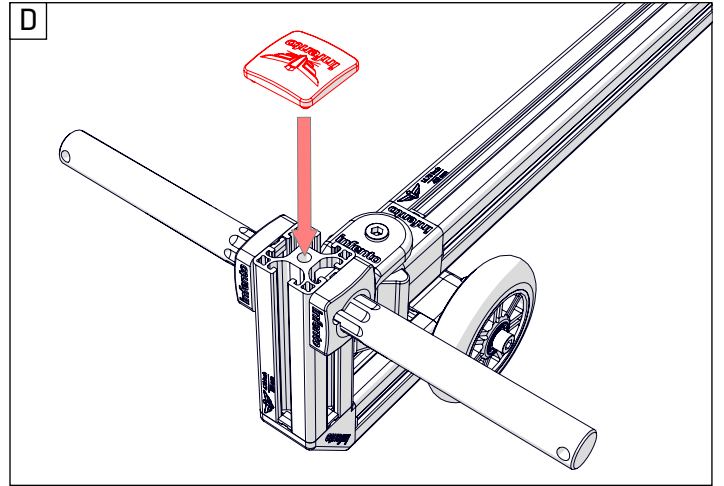
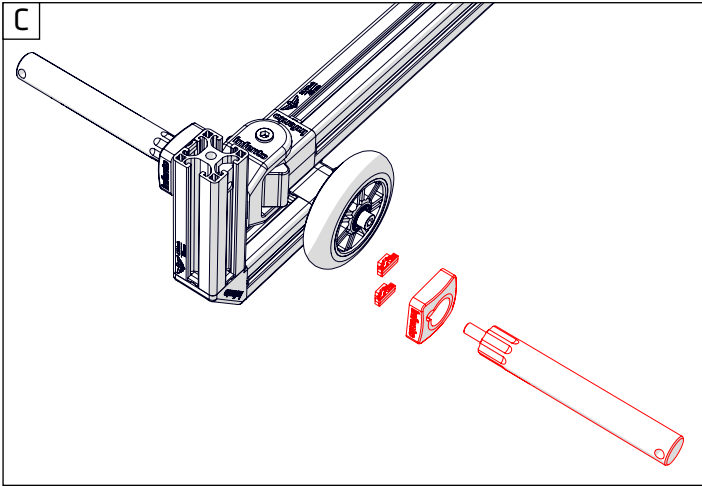
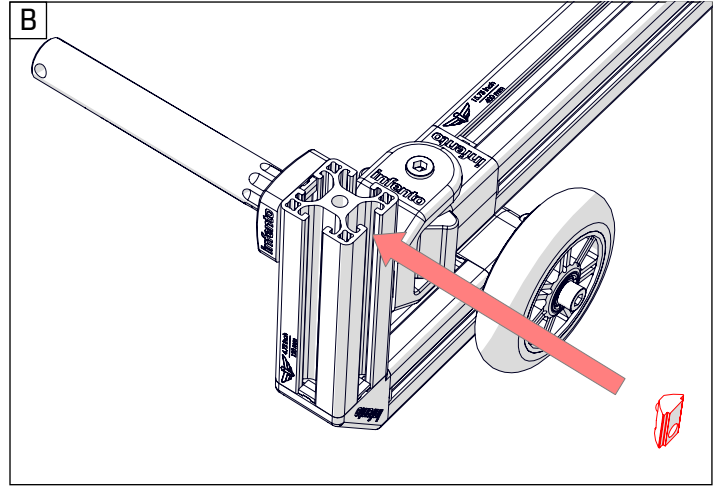
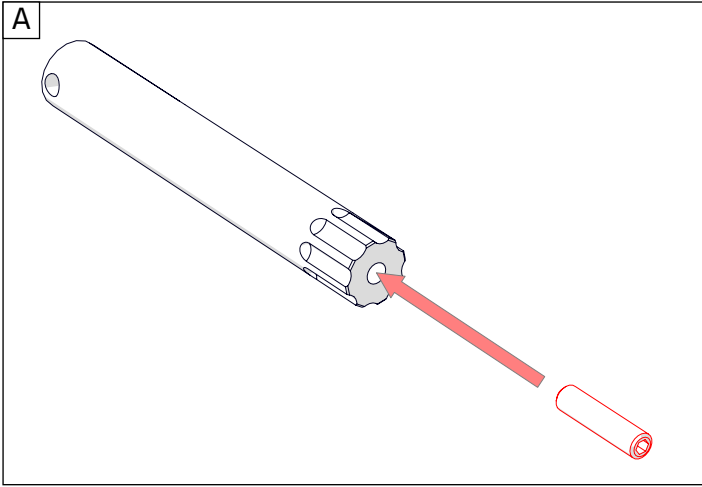




# 28

ride CATERPILLAR XL

- T-Positioning block 2x + Profile nut short 1x + Axle plate 1x + Adjusting bolt 1x M8x35 + Handlebar short 1x + Protect cap 1x



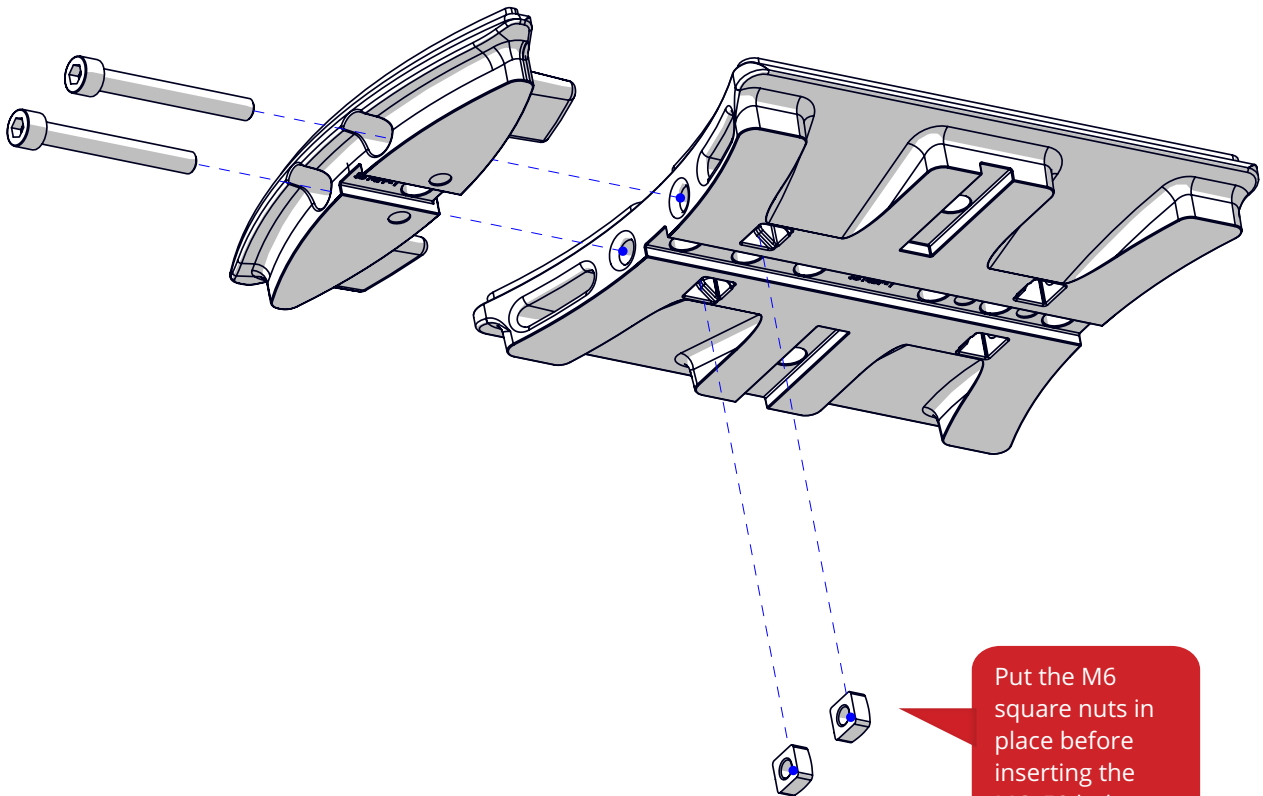
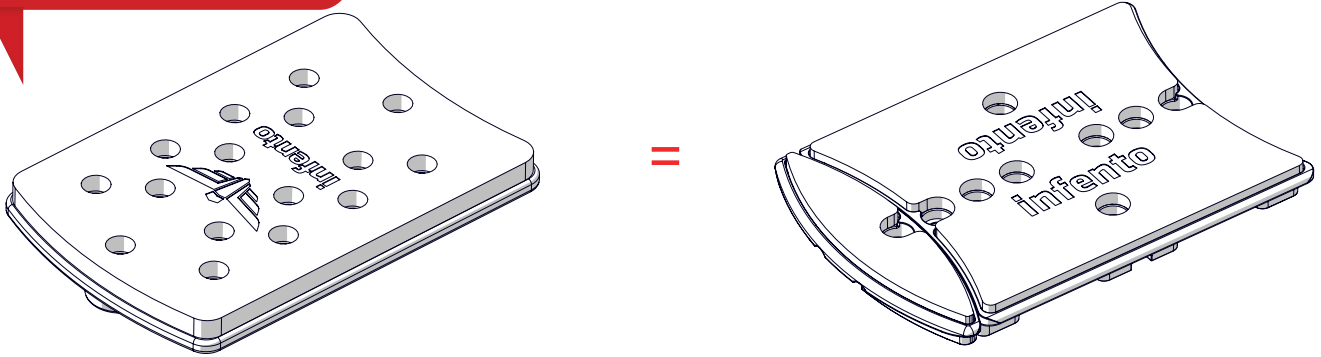
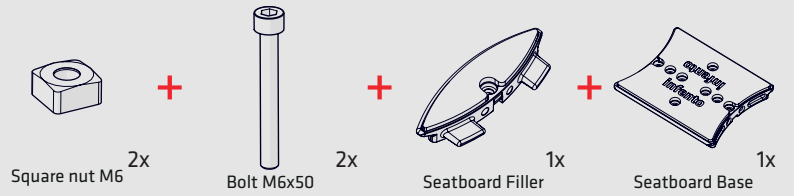




29

ride

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.



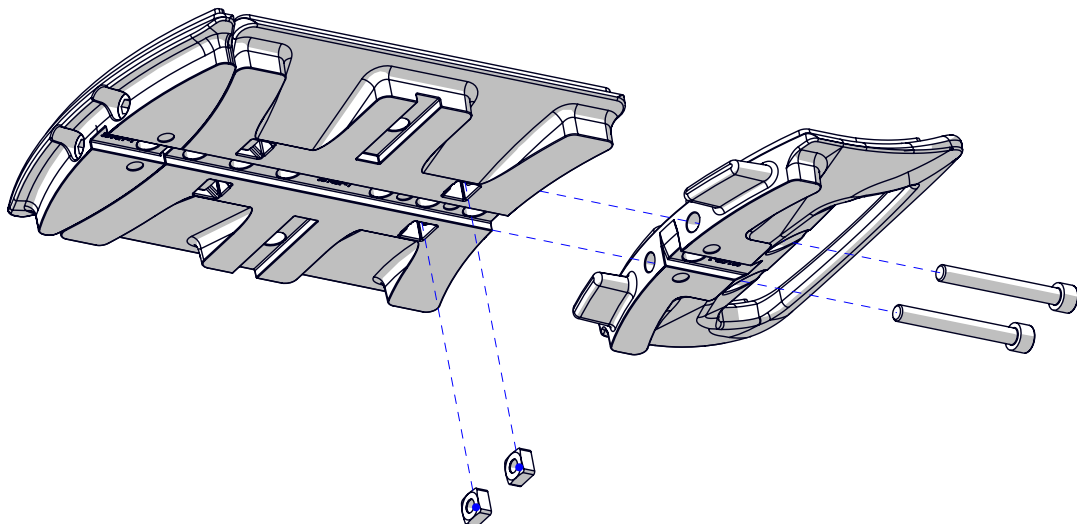
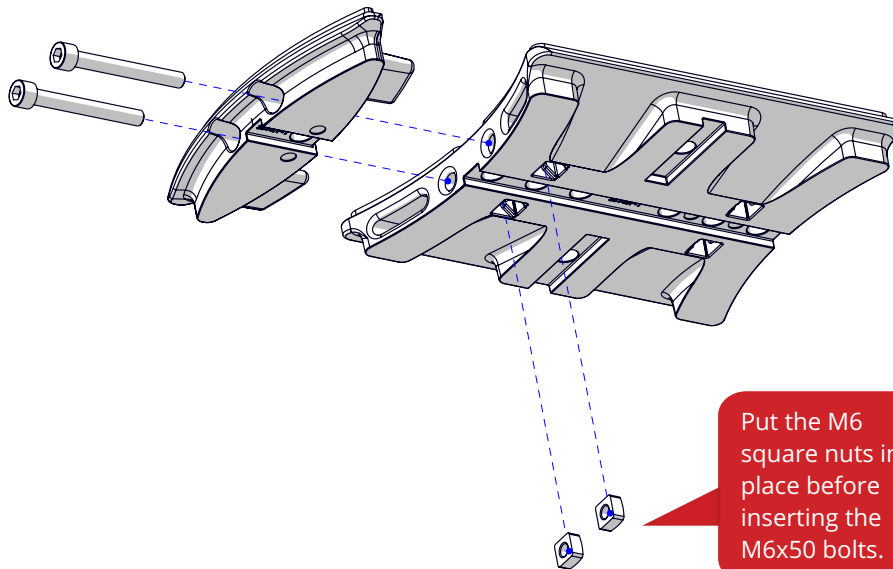
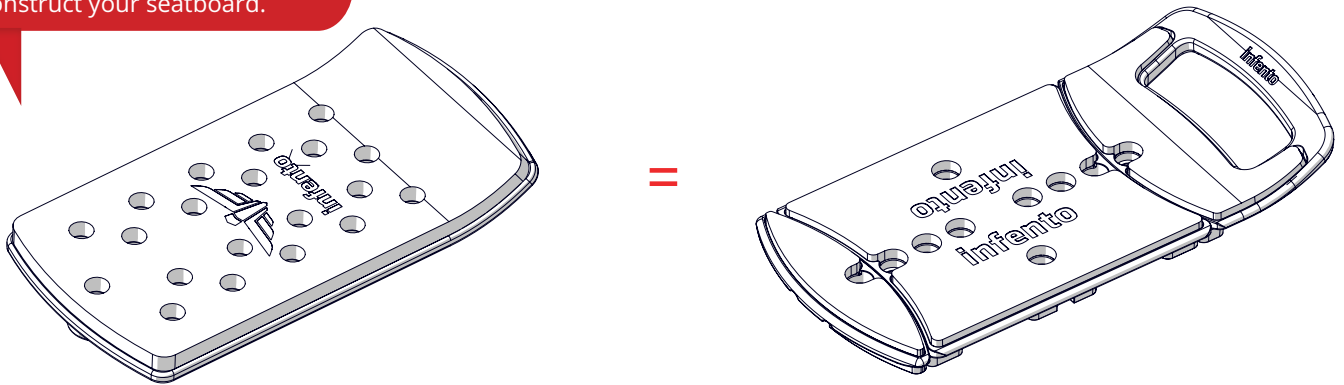
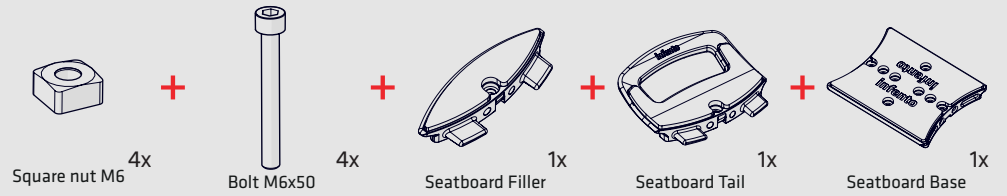
Put the M6 square nuts in place before inserting the M6x50 bolts.



30

ride

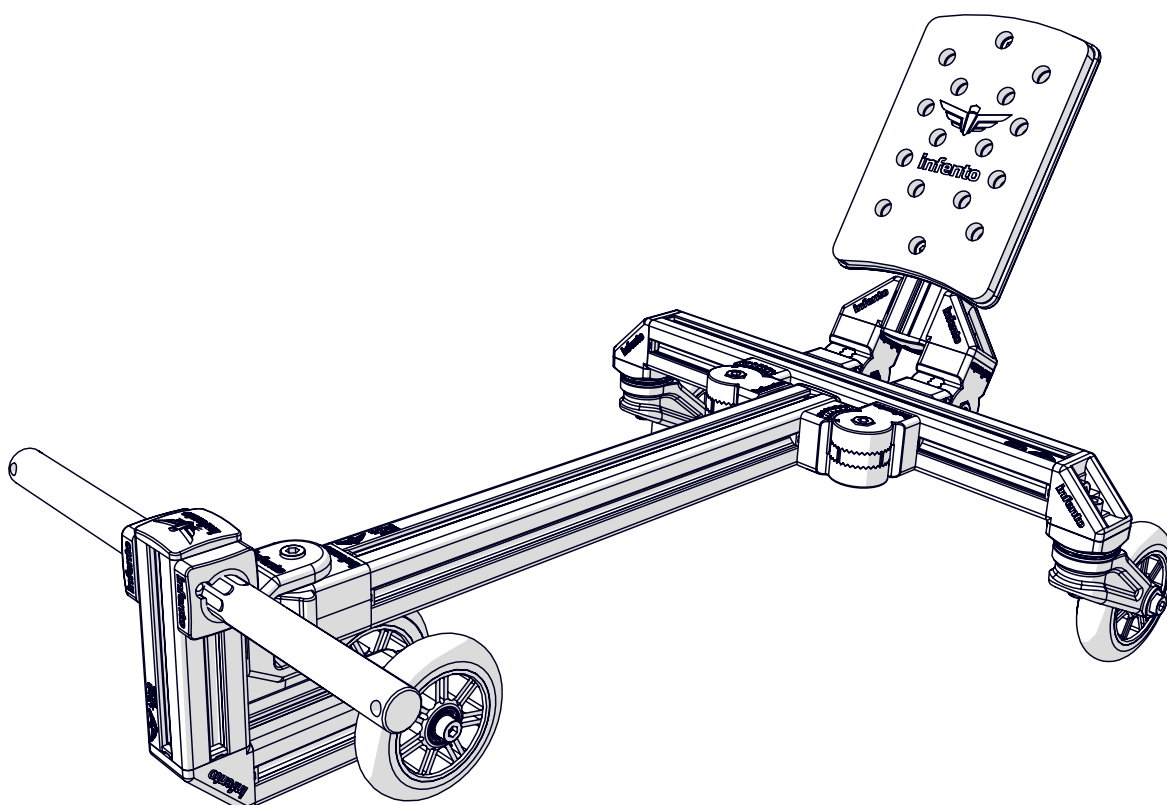
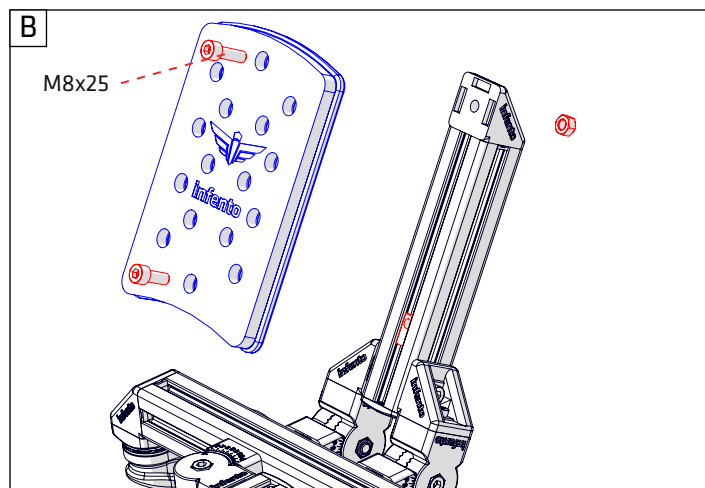
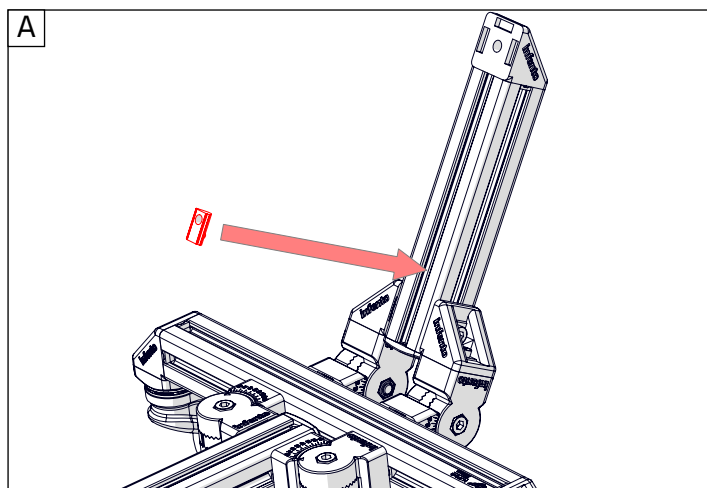
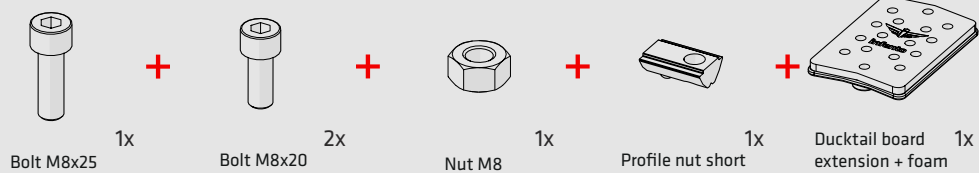
If you have this type of seat in your Kit, please skip to the next page. If not, follow the instructions below to construct your seatboard.





# 31

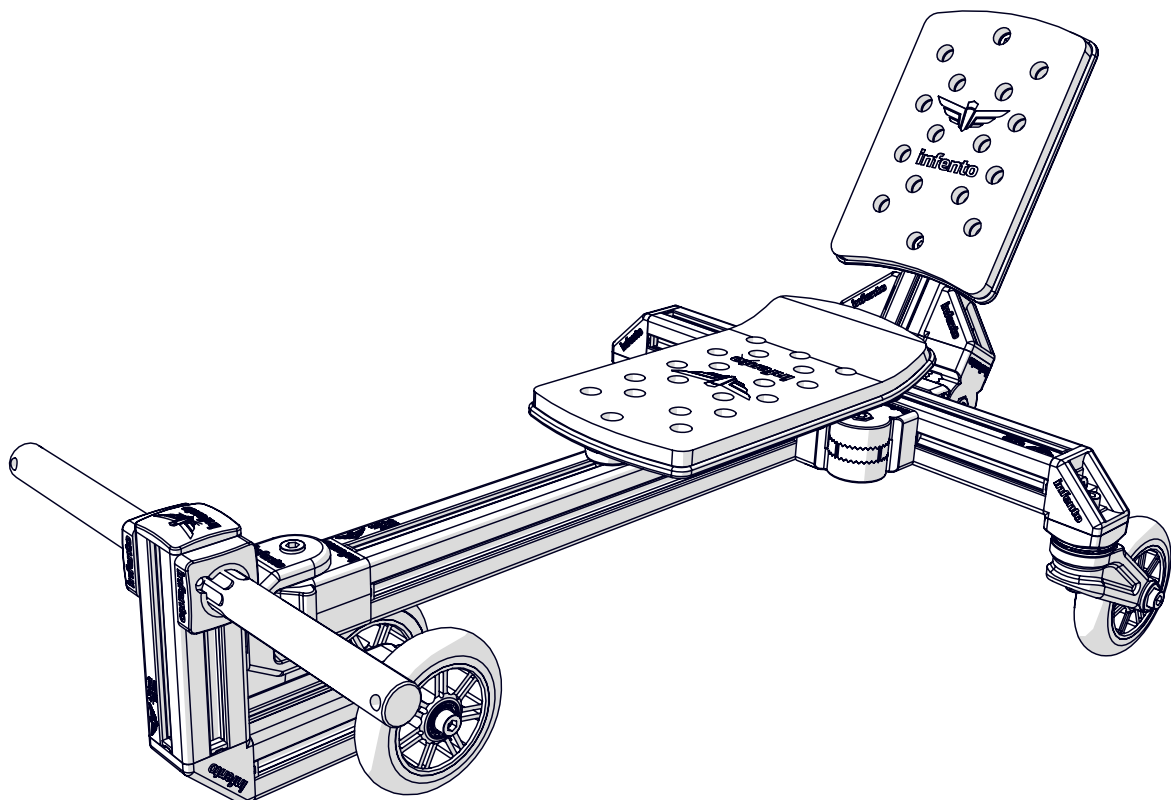
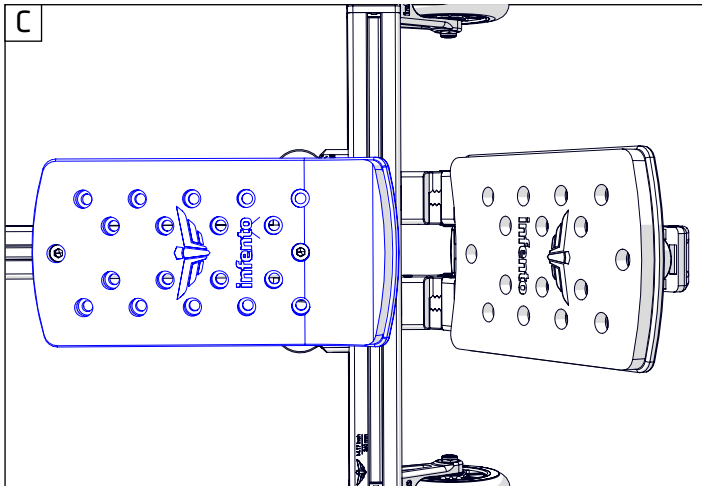
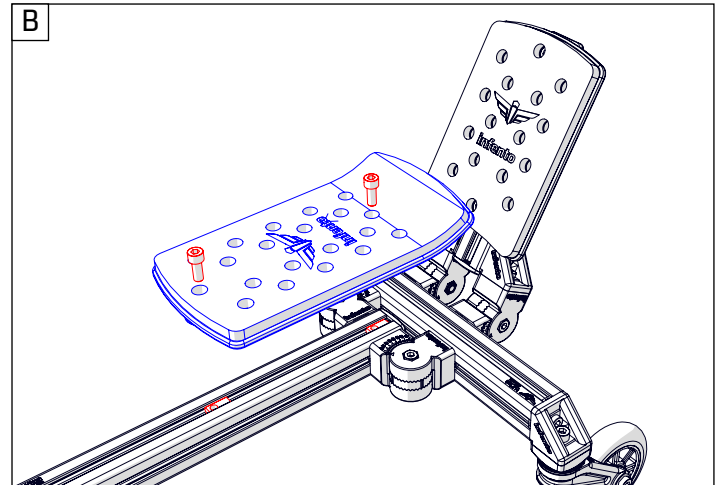
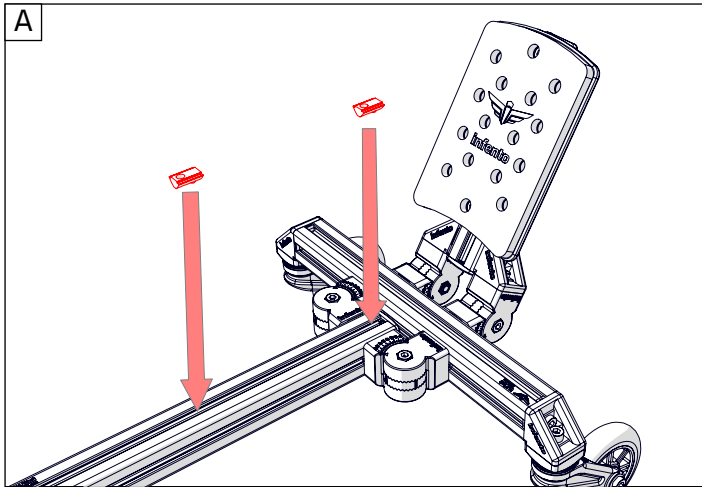
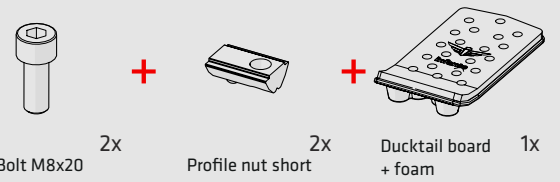
ride **CATERPILLAR XL**





# 32

ride CATERPILLAR XL



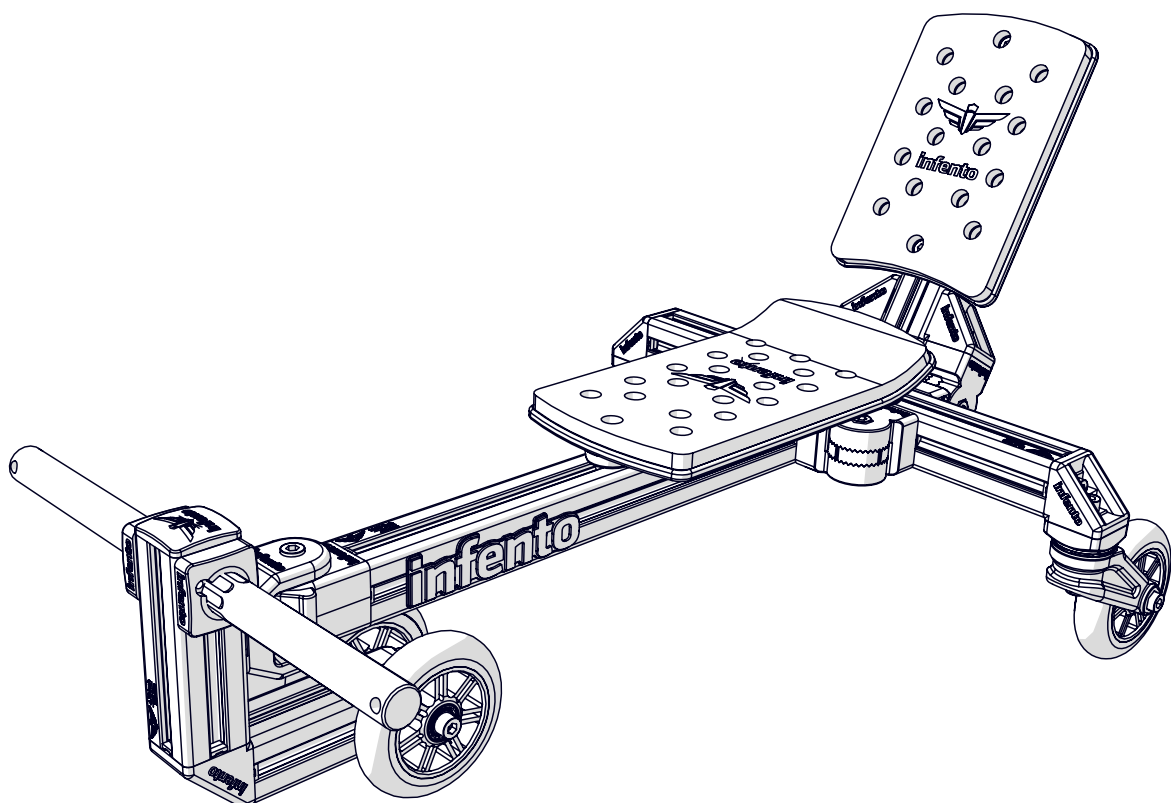
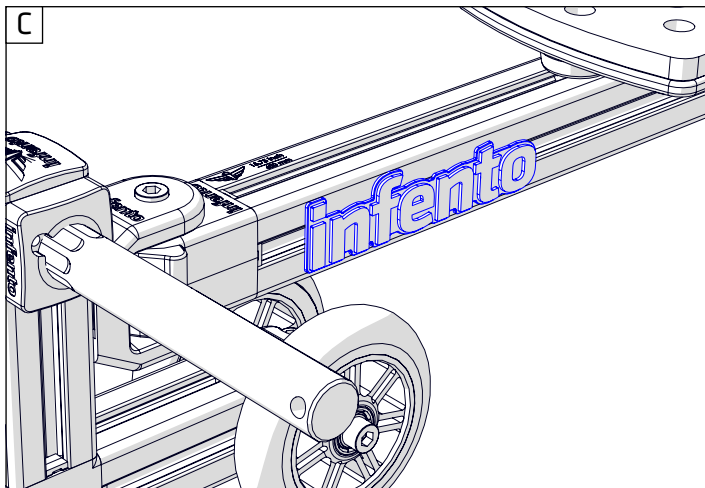
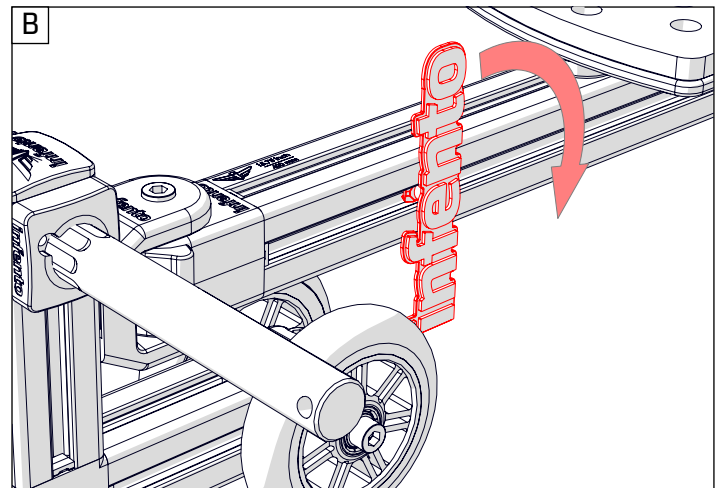
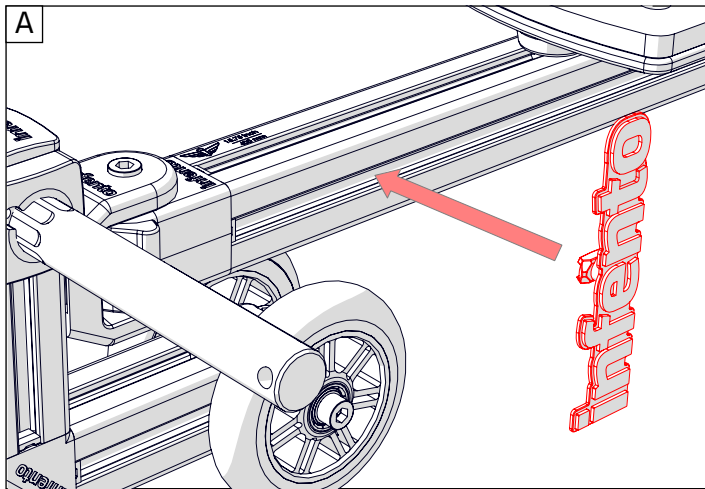


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ride CATERPILLAR XL

infento

1x  
Word mark



# CATERPILLAR XL<sup>G1</sup>



THANK YOU FOR READING ME!