

**5-7**  
YEARS

# TWISTER

## CONSTRUCTION MANUAL



<b>Length</b>	105 - 125 cm / 41 - 49 inch
<b>Max weight</b>	30 kg / 66 lbs
<b>Time to build</b>	1.5 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)**



**WARNING**

**This Junior ride has to be assembled by an adult.**

**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. Construction/assembly of a ride should always be under supervision of an adult using the Infento manual for the specific ride.
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 OR SUPPORT NEEDED?

You can mail us all your questions at:  
**[support@infentorides.com](mailto:support@infentorides.com)**  
and our team will reply 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



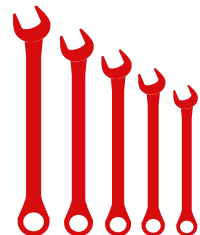
**4 x Allen key**  
3, 4, 5, 6 mm



**1 x Tapeline**



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



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



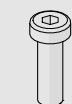
1

ride **TWISTER**

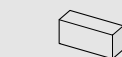
First, get all required materials stated here and then follow the instructions.



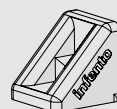
Locknut M8 1x



Bolt M8x25 (low head) 1x



Positioning block 2x

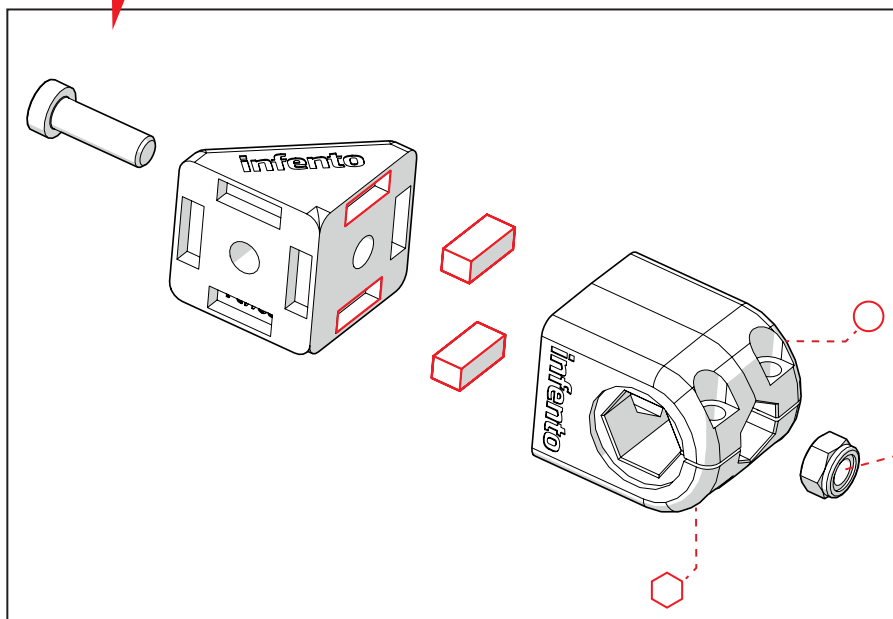


L-joint 1x

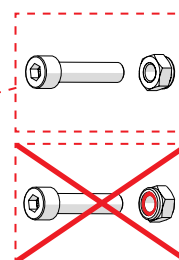
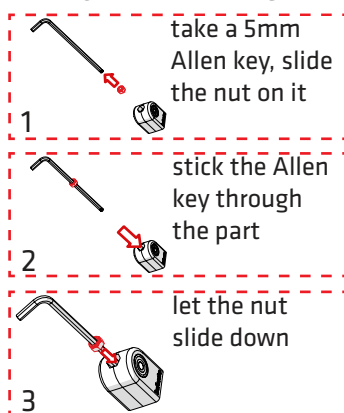


Axle clamp 1x

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.

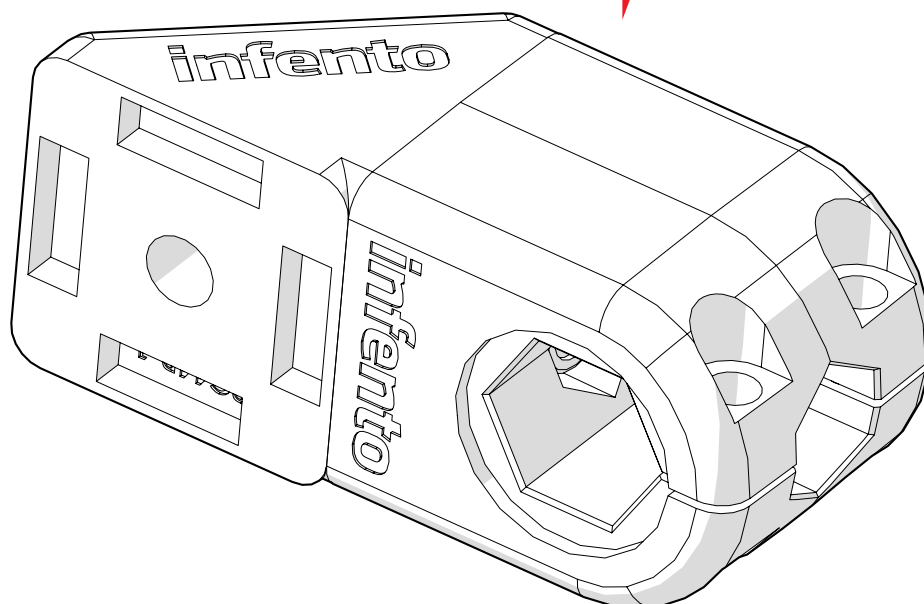


#### BOLT-IN-PART-TRICK



Double check here:

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

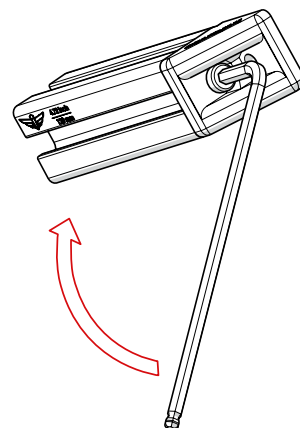


# **TOP 3** REQUIREMENTS MAKING A GREAT INFENTO EXPERIENCE:



**1**

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



**2**

**Constructing and playing always under supervision of an adult.**



**3**

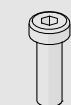
**Check frequently if all parts are still firmly tightened and function properly.**





# 2

ride **TWISTER**



Bolt M8x20  
(low head) 1x

+

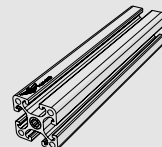


T-Positioning block 2x

+



Axle 1x  
17.32inch | 440mm

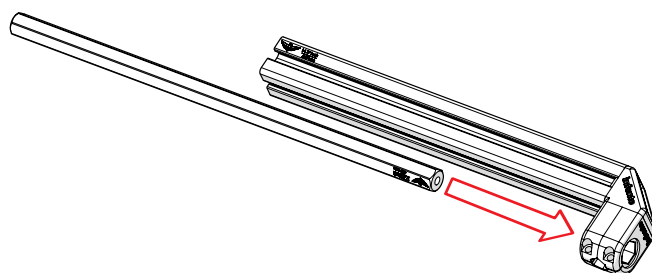


Profile 1x  
14.17inch | 360mm

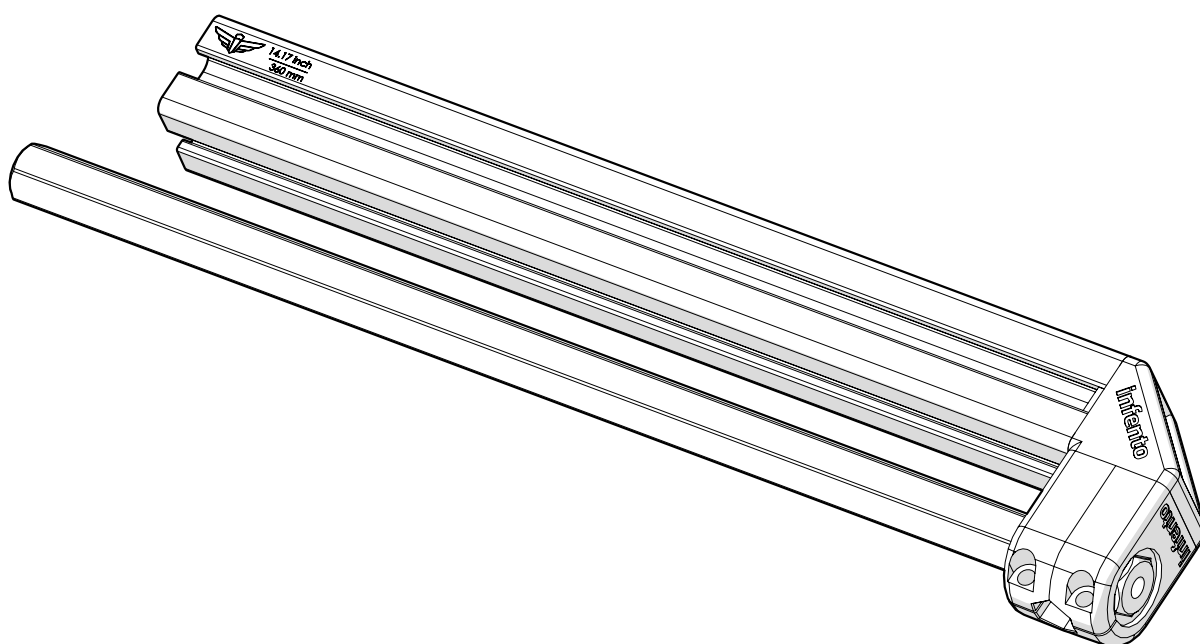
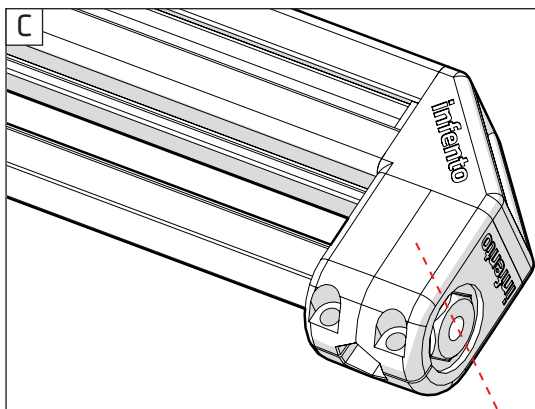
A



B



C







3

ride *TWISTER*

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



Locknut M8

1x



Bolt M8x25  
(low head)

1x



Positioning block

2x



L-joint

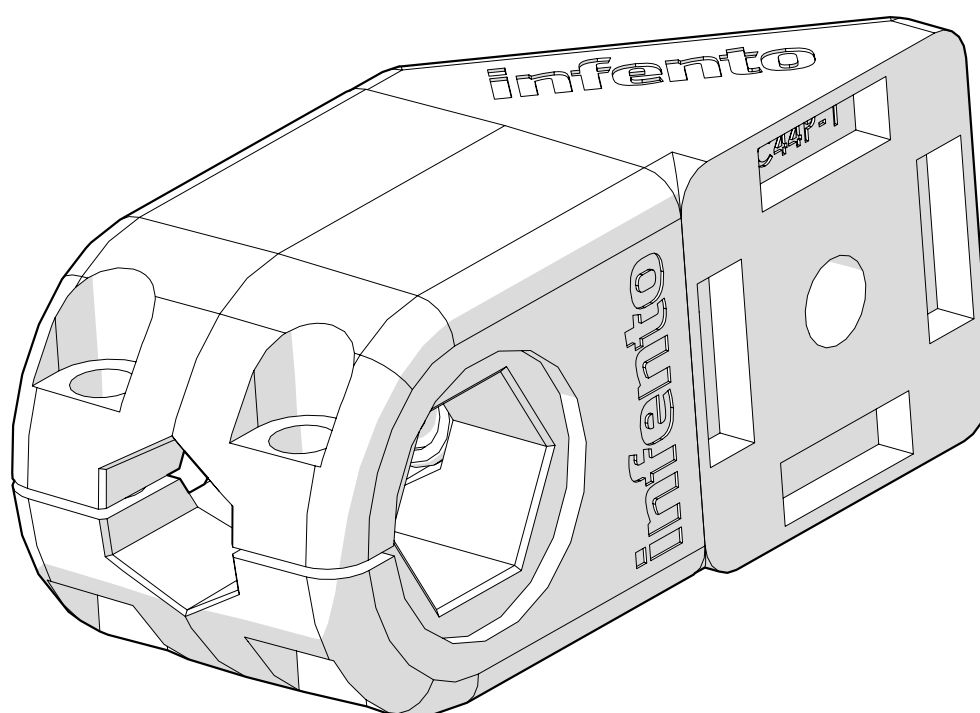
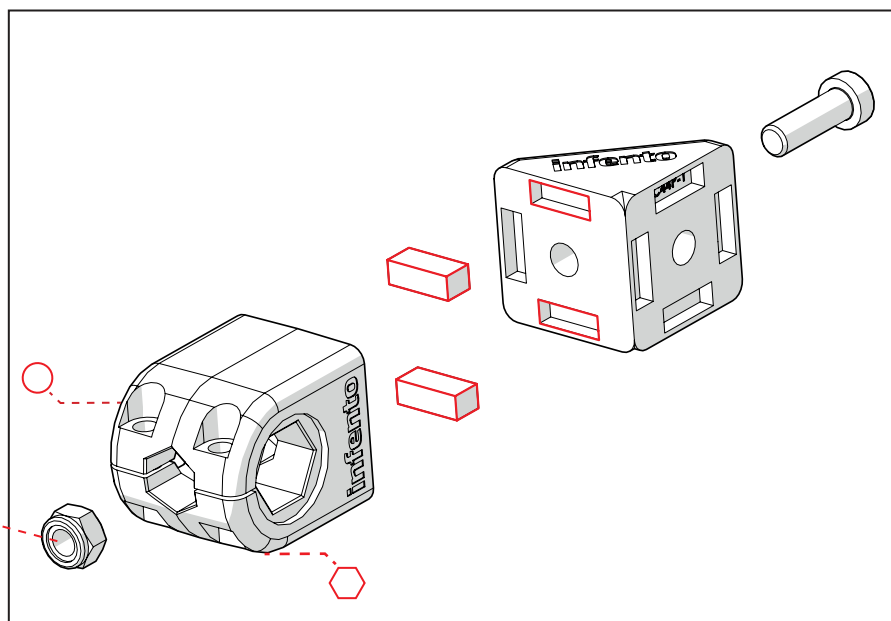
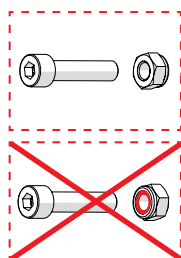
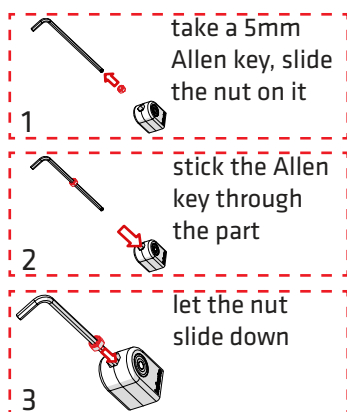
1x



Axle clamp

1x

#### BOLT-IN-PART-TRICK



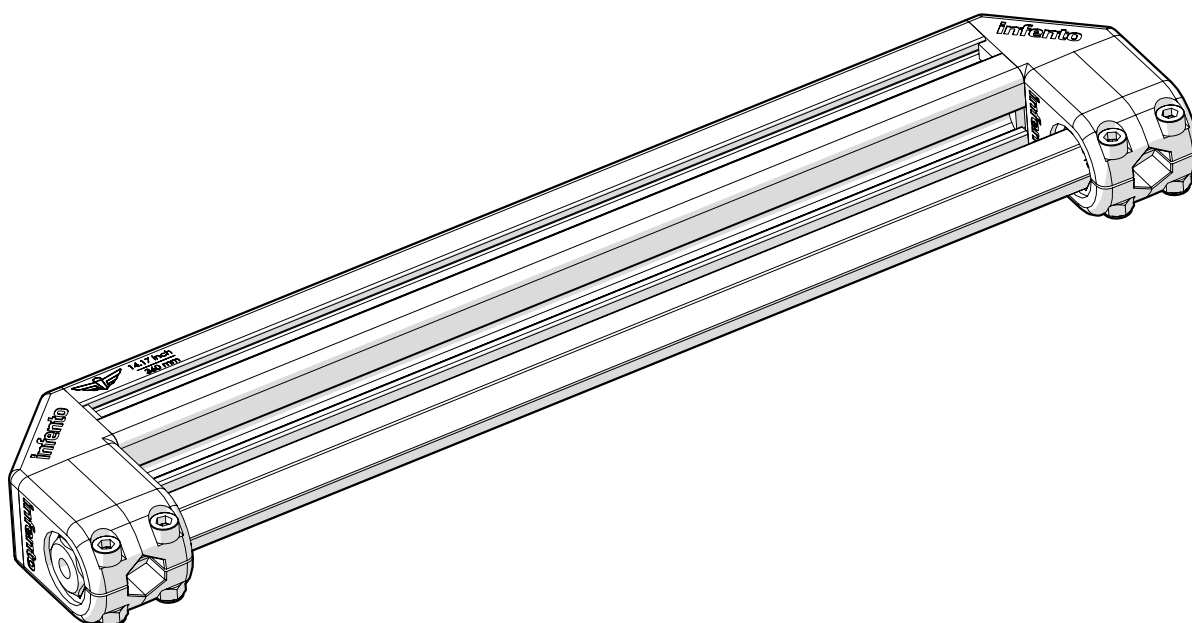
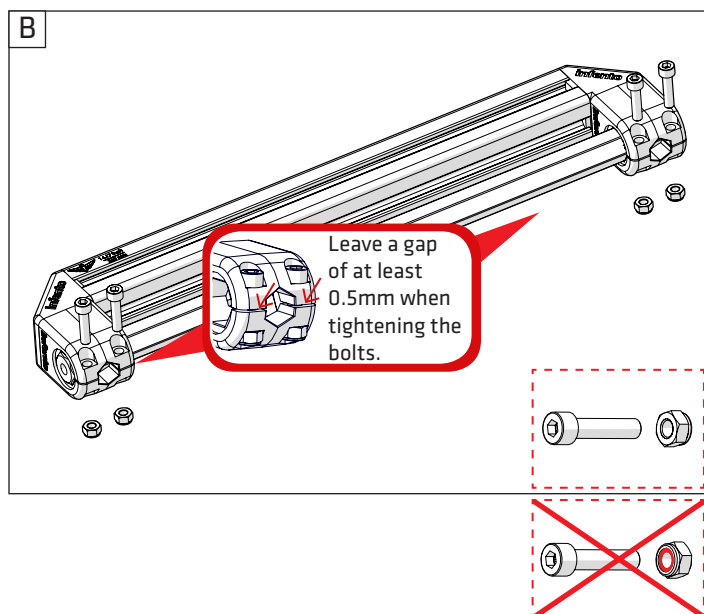
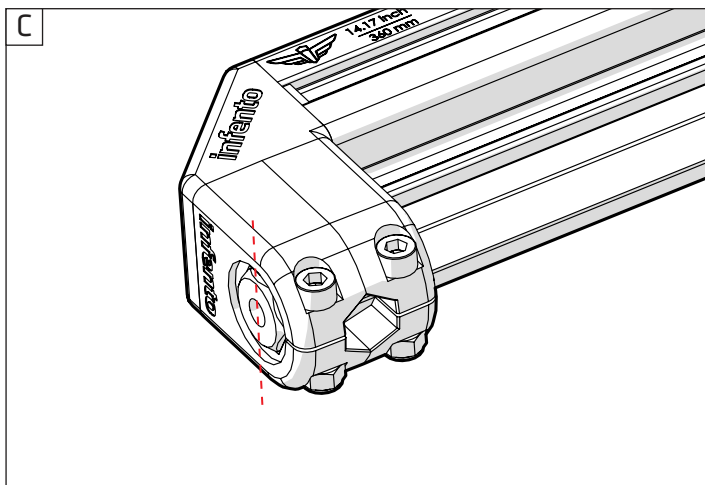
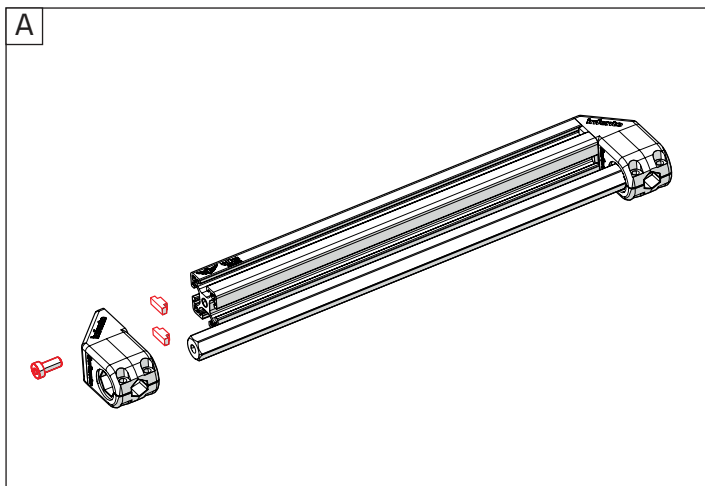




# 4

ride **TWISTER**

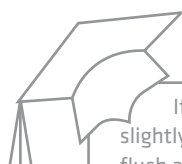
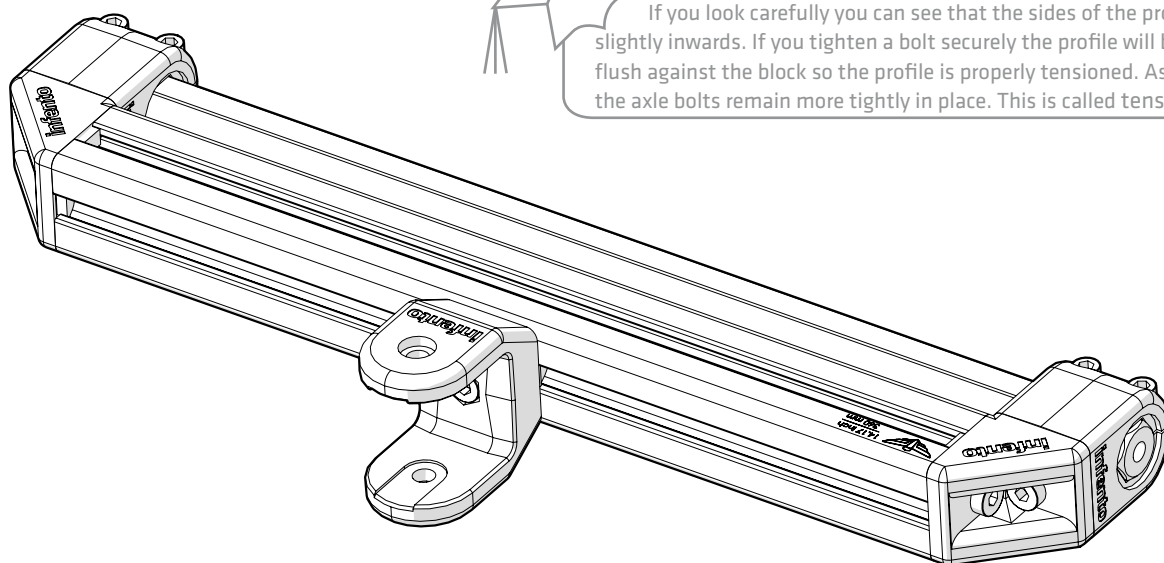
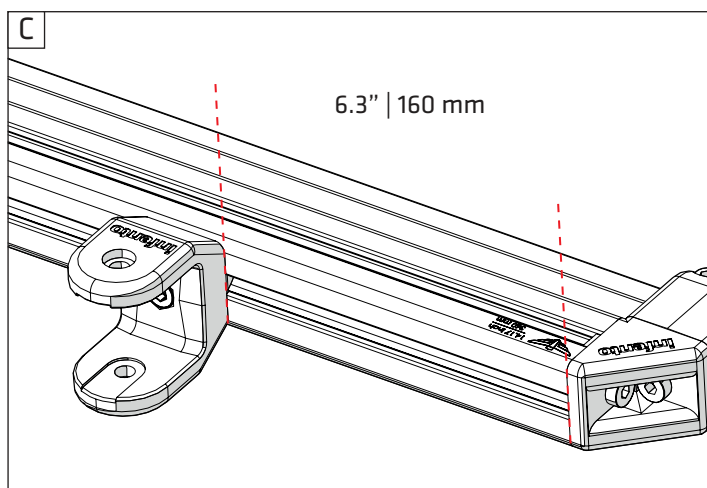
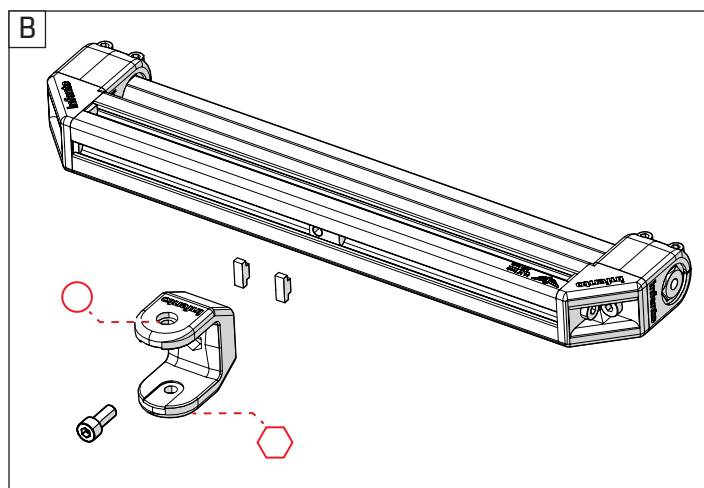
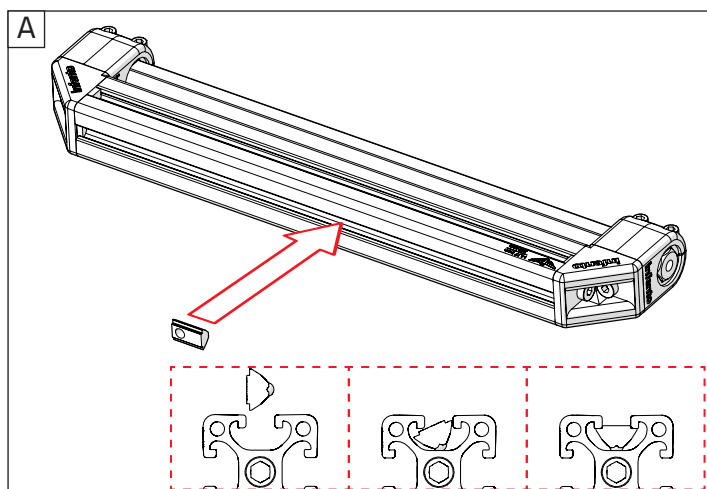
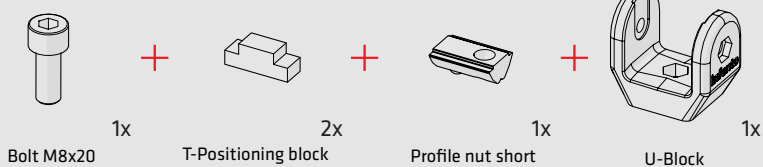
Locknut M6 4x    Bolt M6x25 4x    T-Positioning block 2x    Bolt M8x20 (low head) 1x





# 5

ride **TWISTER**

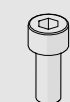


If you look carefully you can see that the sides of the profile slope slightly inwards. If you tighten a bolt securely the profile will be pulled flush against the block so the profile is properly tensioned. As a result the axle bolts remain more tightly in place. This is called tensile stress.



6

ride **TWISTER**



Bolt M8x20

+

2x



T-Positioning block

+

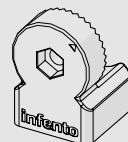
4x



Profile nut short

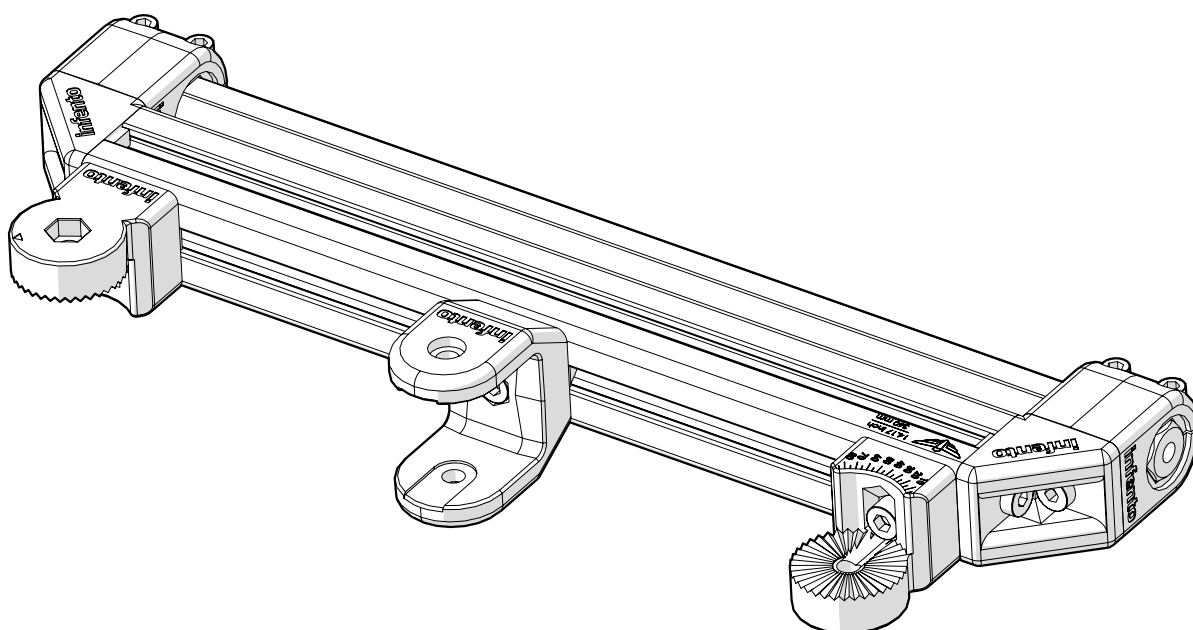
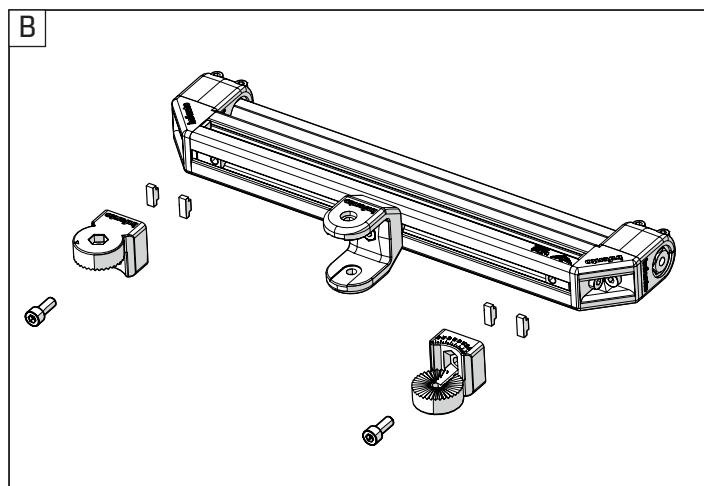
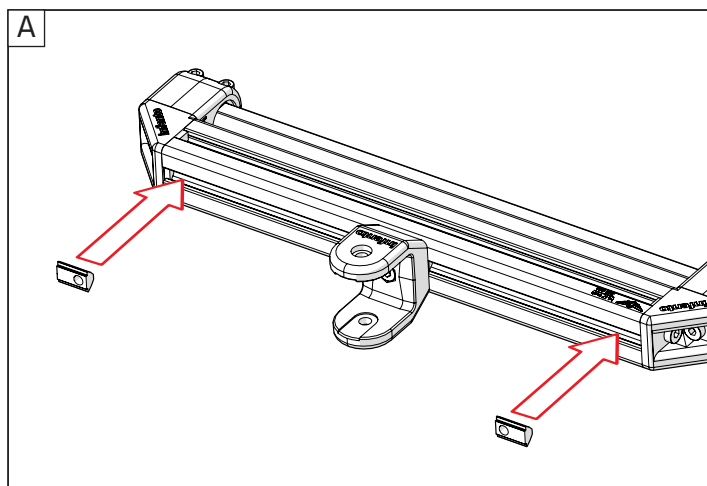
+

2x



Multi angle joint

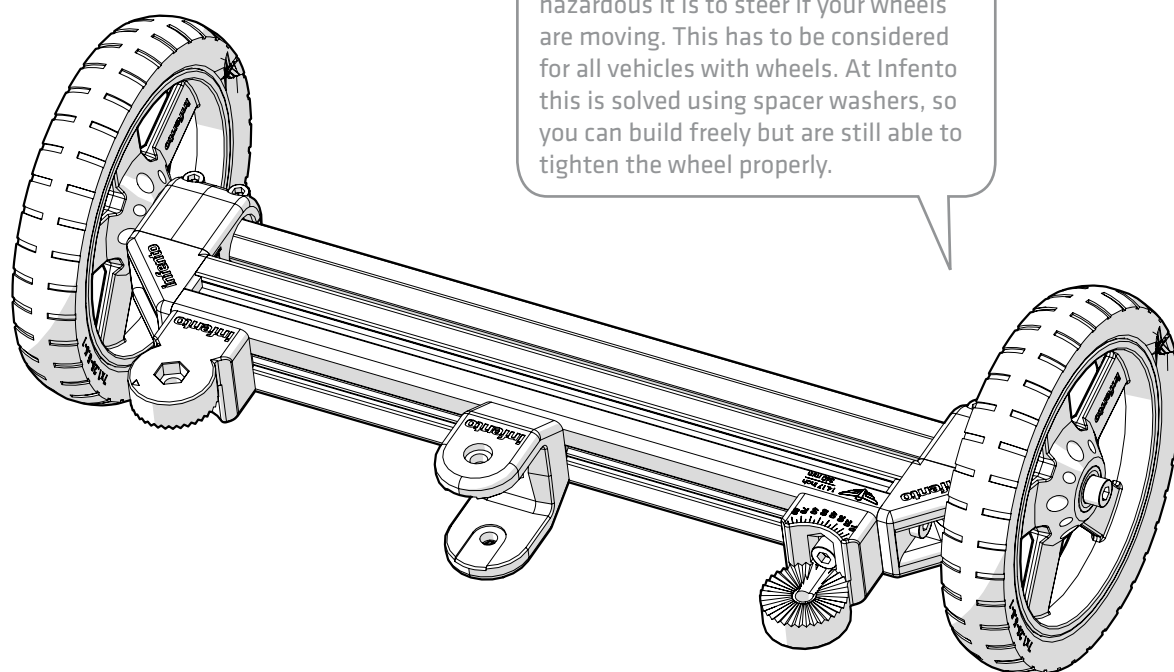
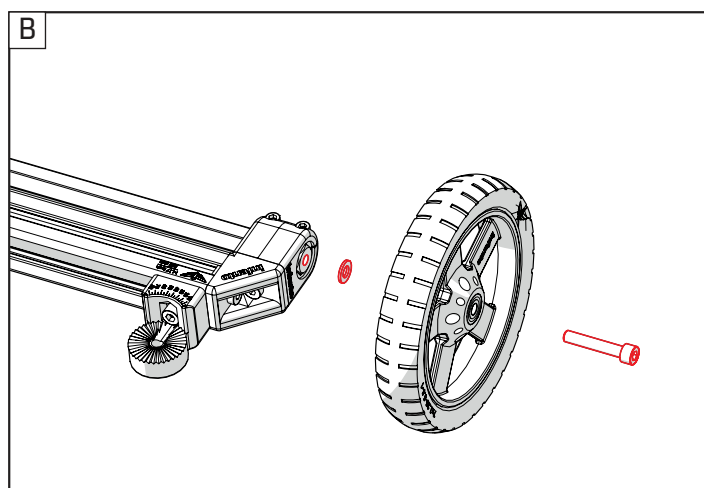
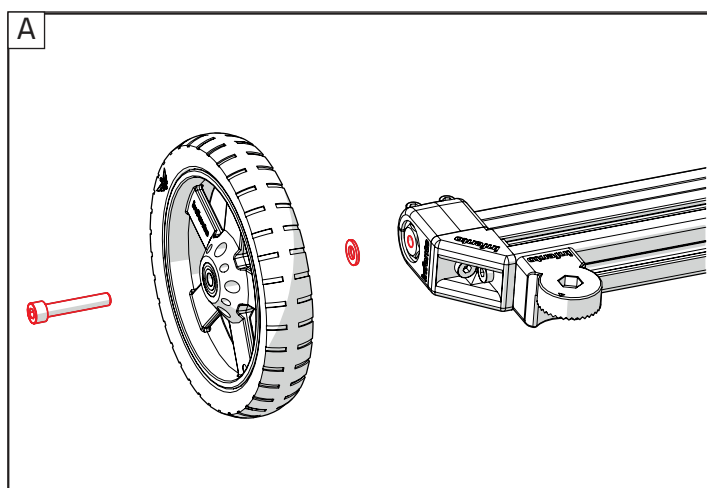
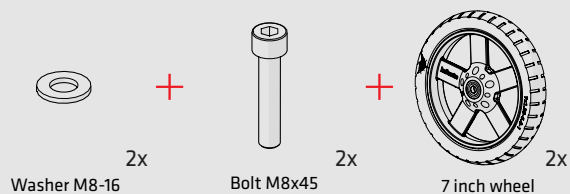
2x





# 7

ride **TWISTER**

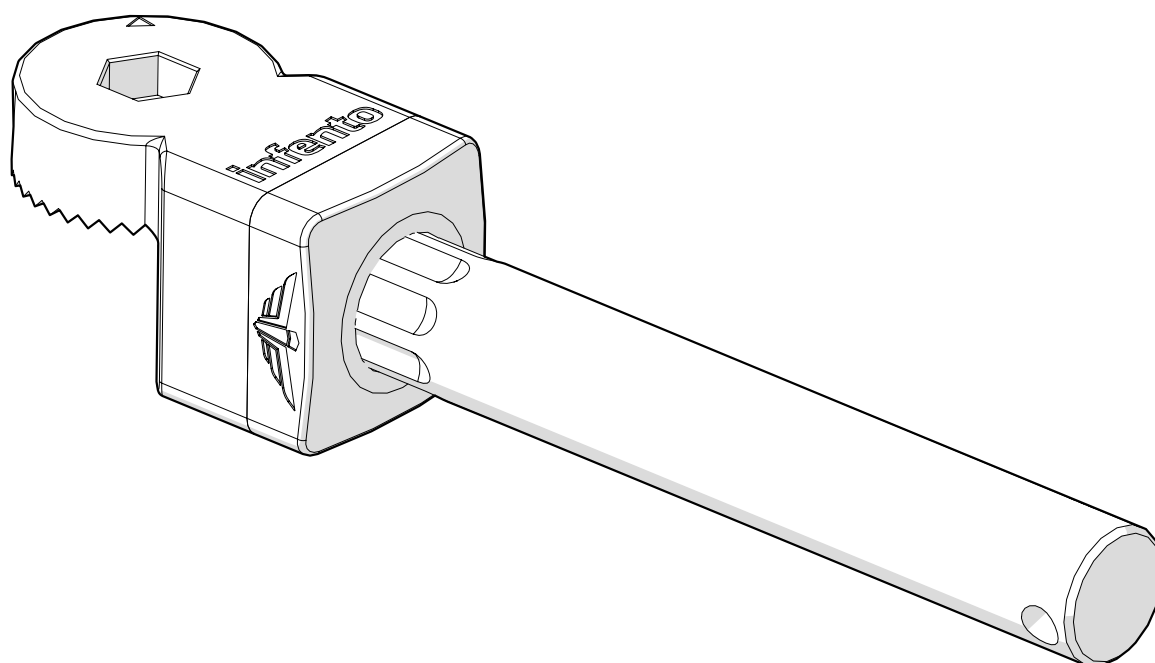
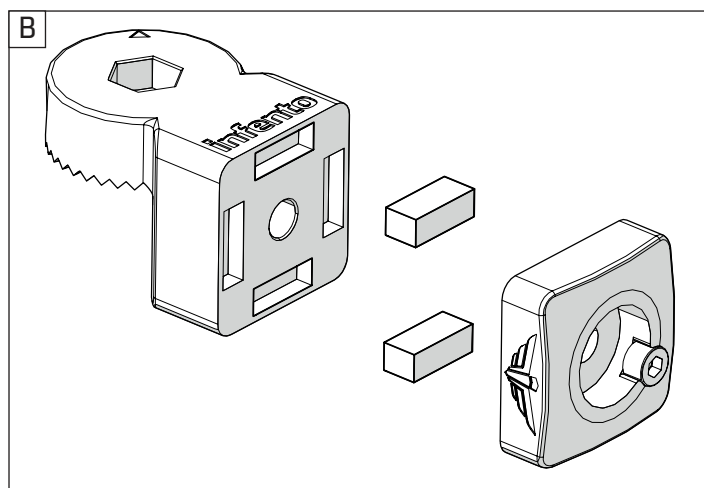
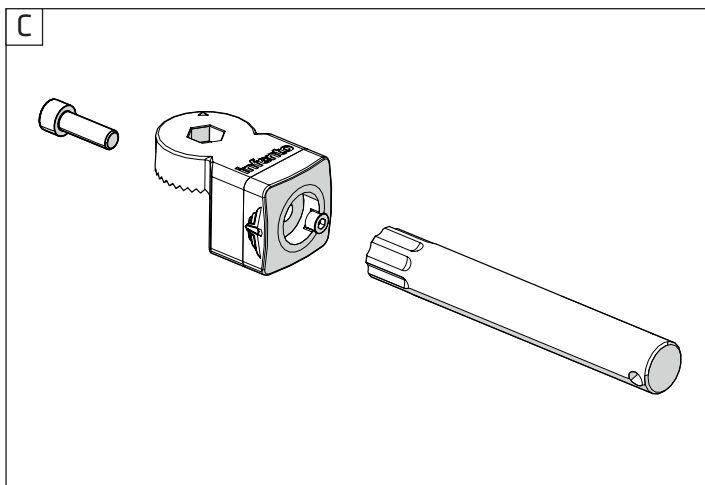
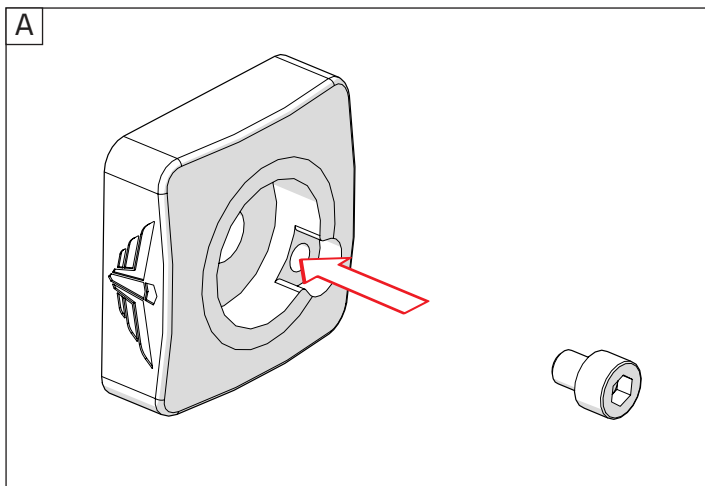
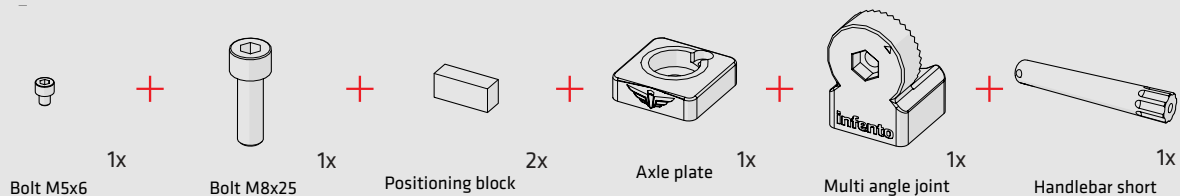


A wheel always has to be locked tightly with washers because the wheel might otherwise move over the axle. This way you ensure that the wheel does not touch anywhere and will not rattle. This is especially important when steering. Just imagine how difficult and hazardous it is to steer if your wheels are moving. This has to be considered for all vehicles with wheels. At Infento this is solved using spacer washers, so you can build freely but are still able to tighten the wheel properly.



8

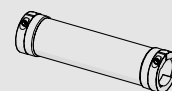
ride **TWISTER**





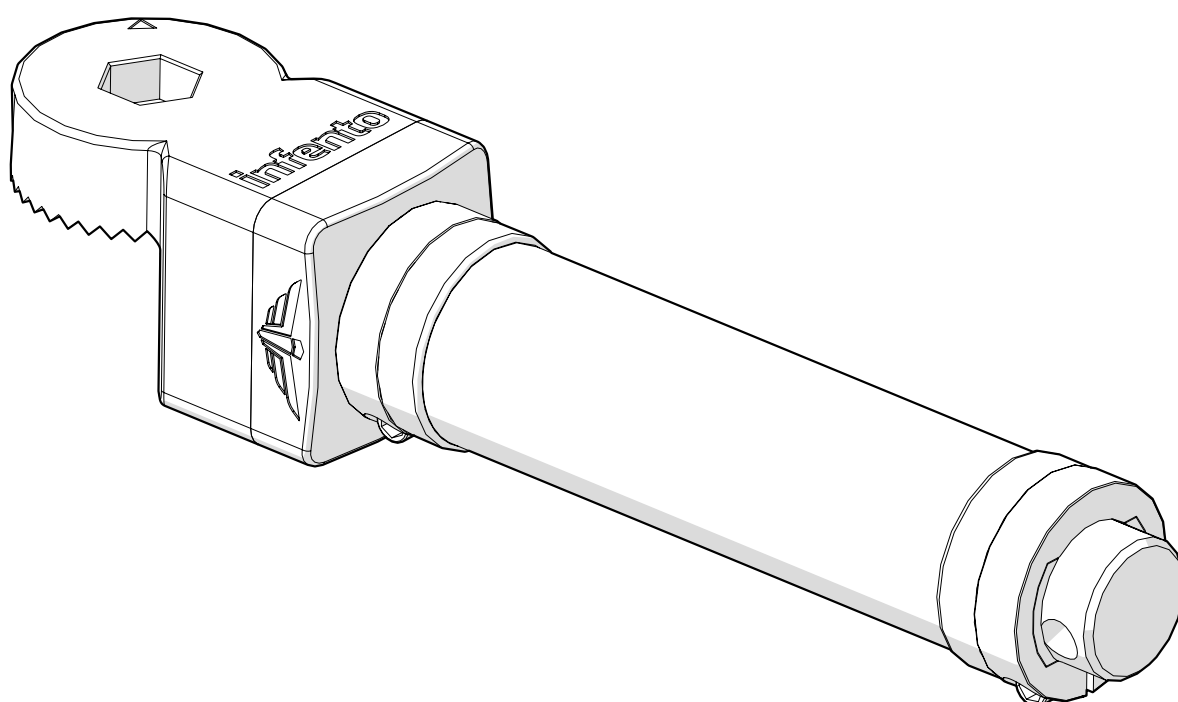
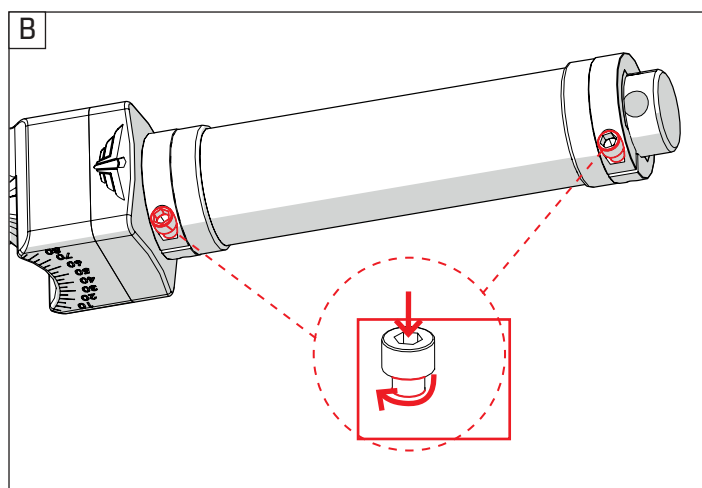
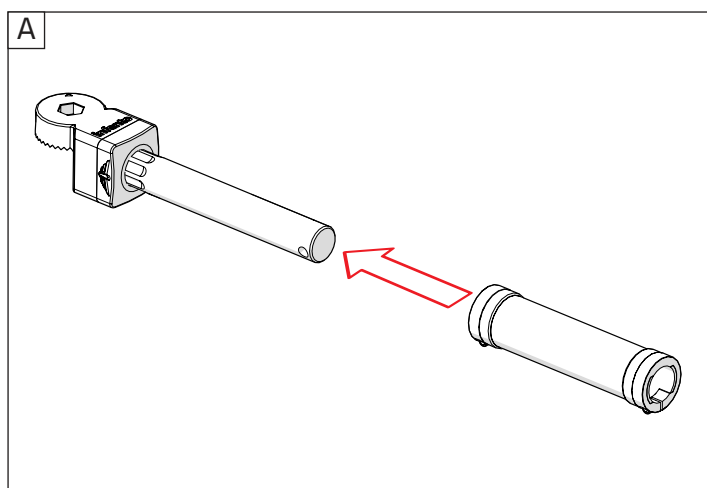
9

ride **TWISTER**



1x

Handgrip





# 10

ride **TWISTER**



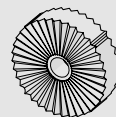
Locknut M8

1x



Bolt M8x35

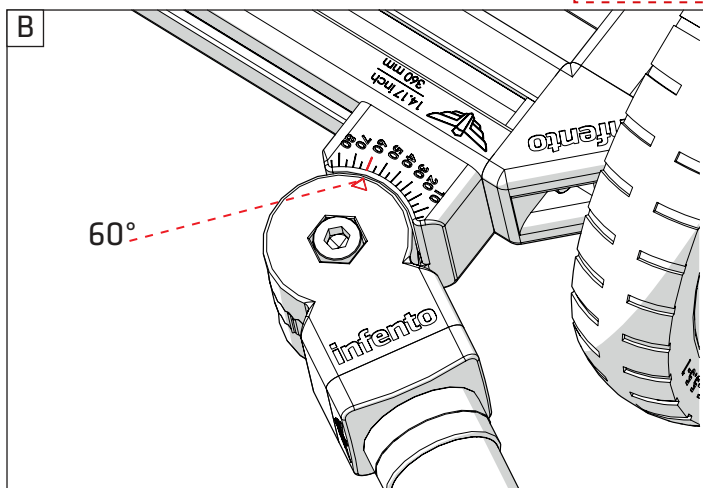
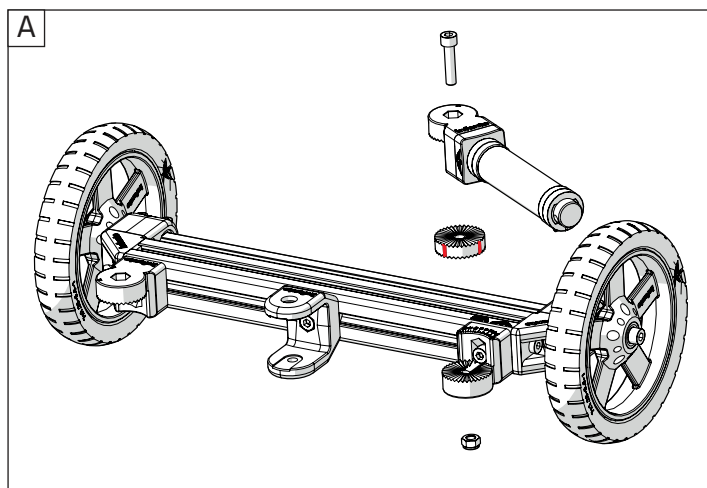
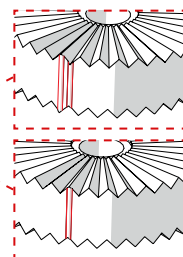
1x



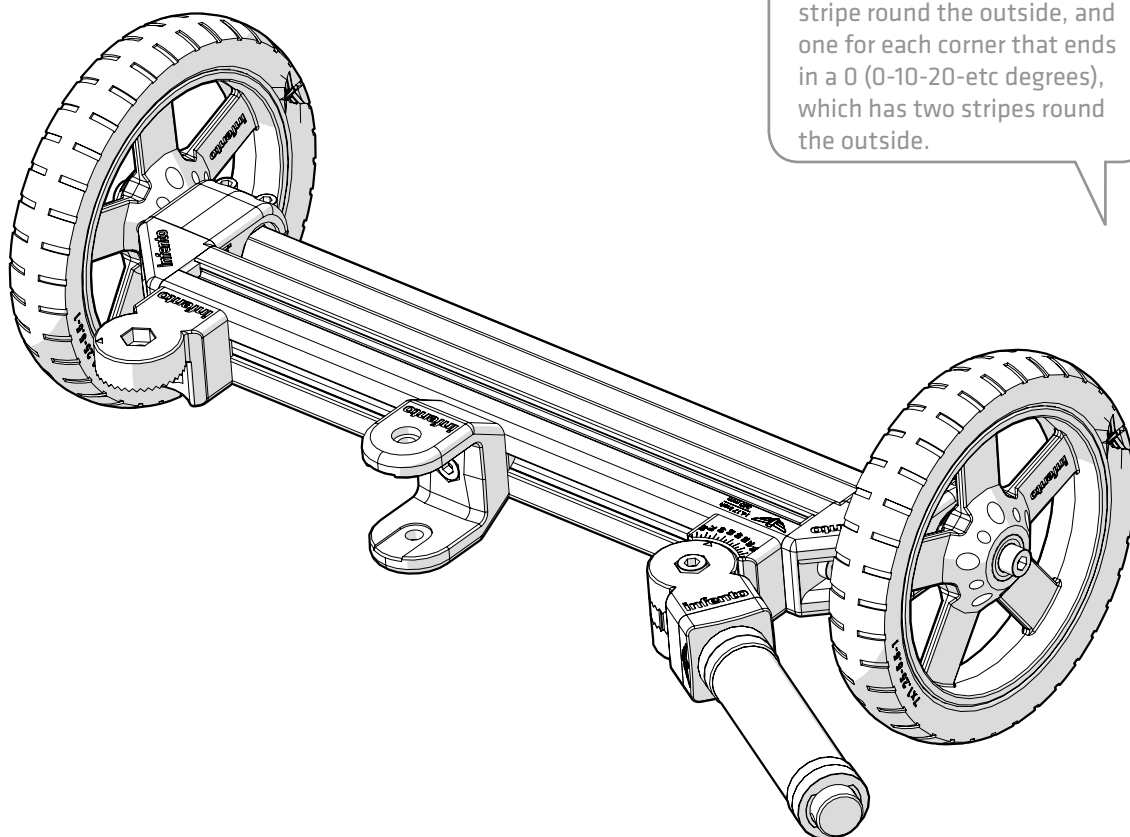
Knurled disc 2 stripes

1x

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



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.

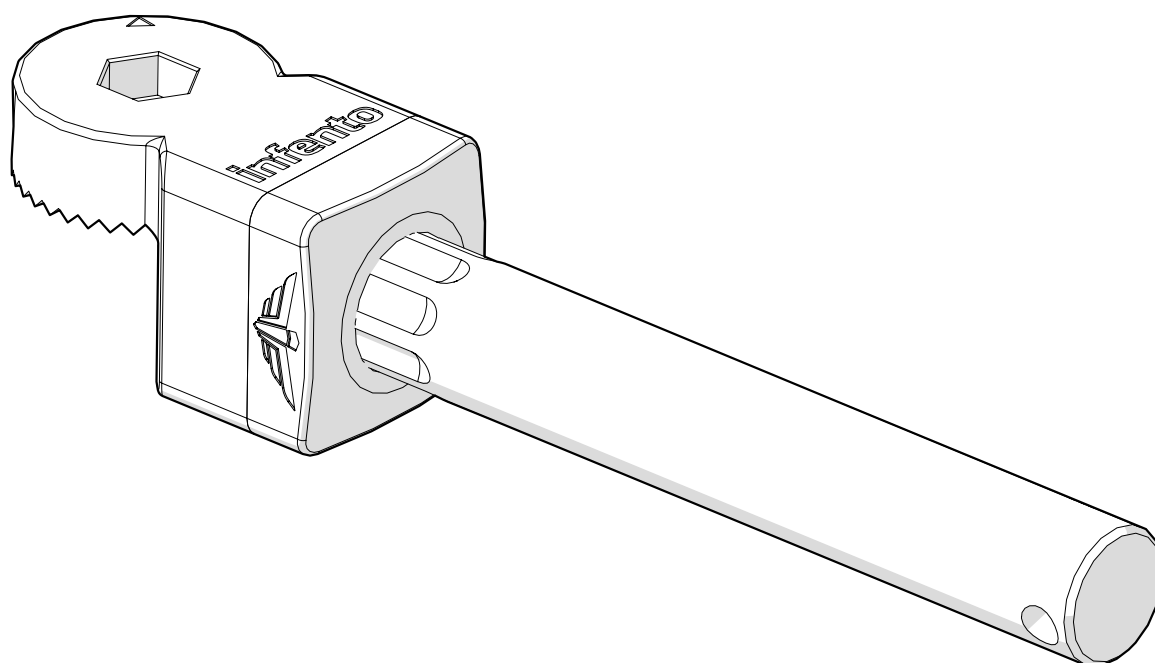
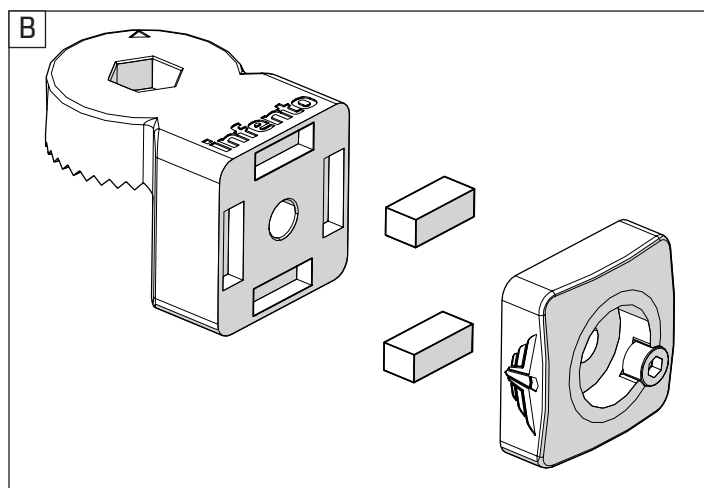
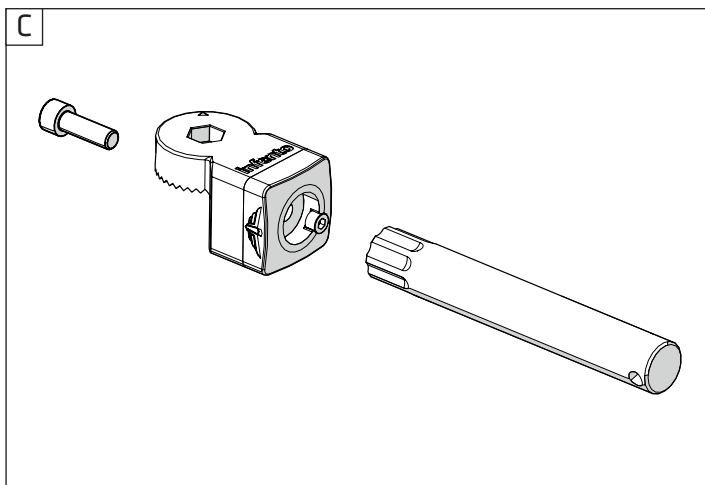
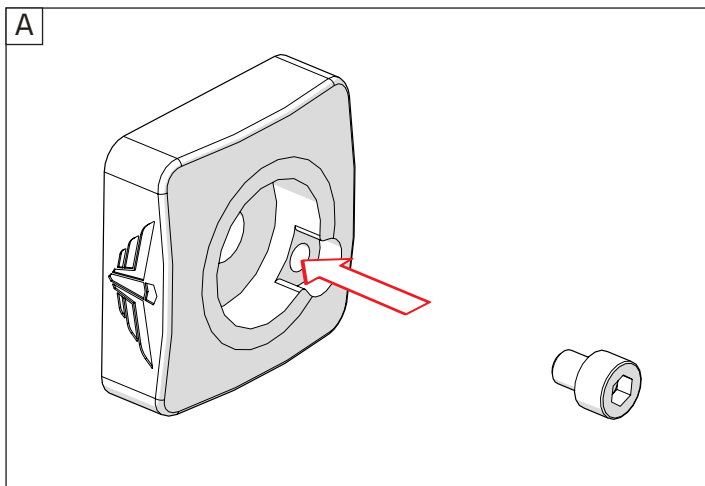
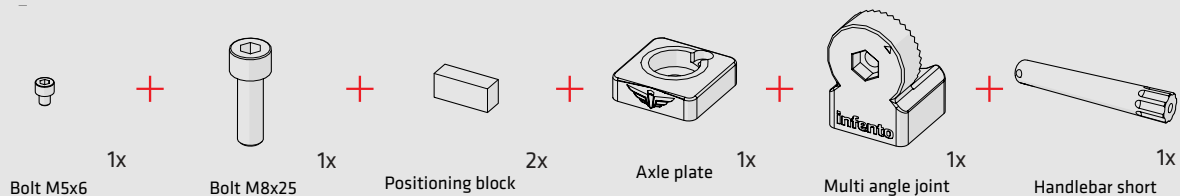






# 11

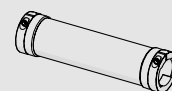
ride **TWISTER**





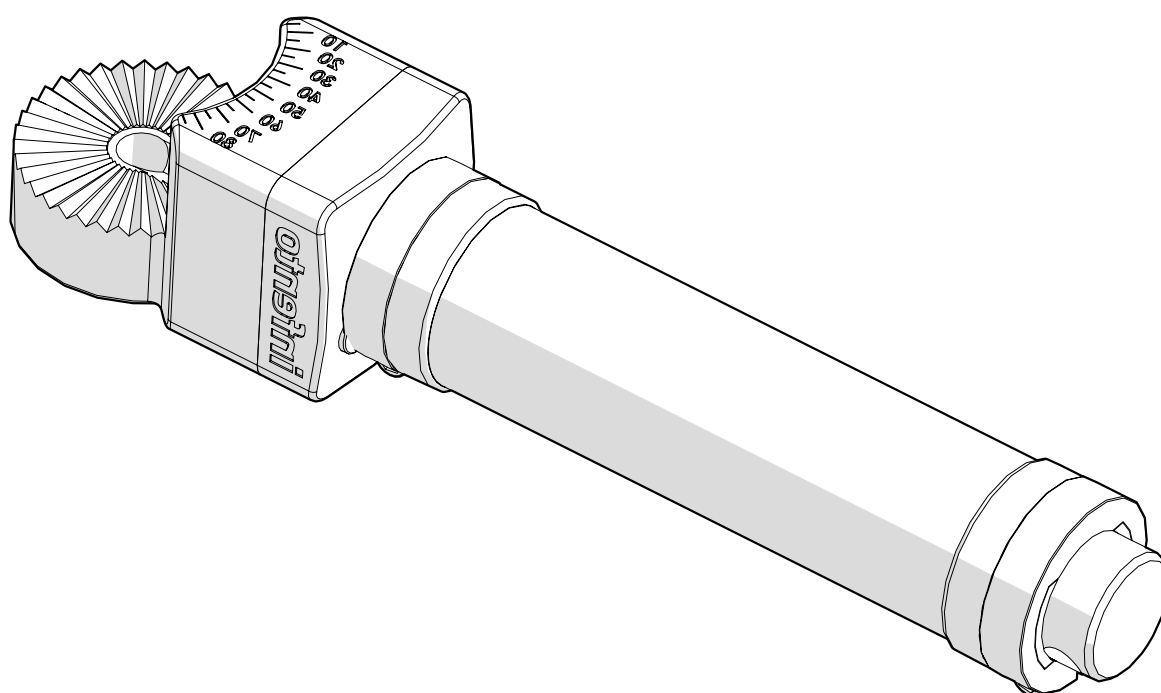
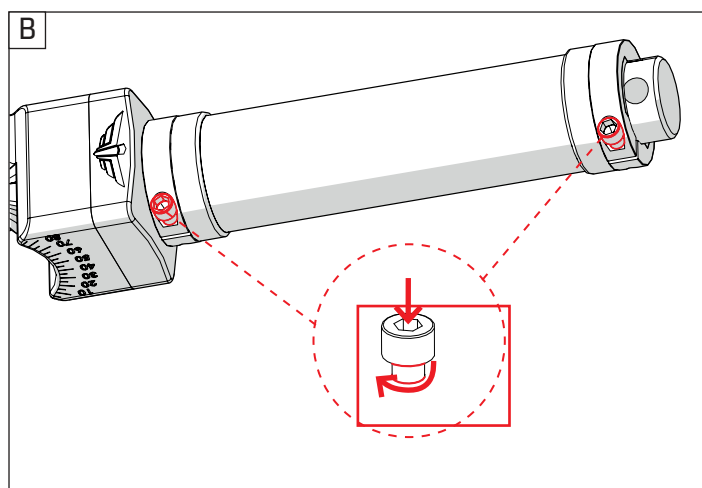
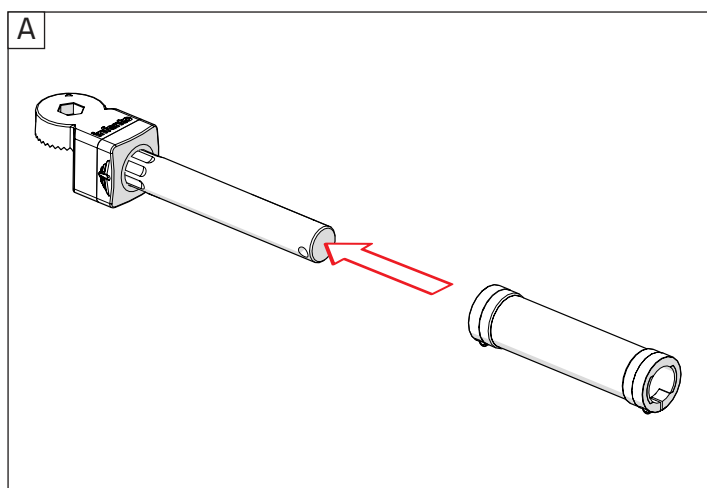
# 12

ride **TWISTER**



1x

Handgrip





# 13

ride **TWISTER**



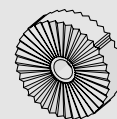
Bolt M8x35

1x



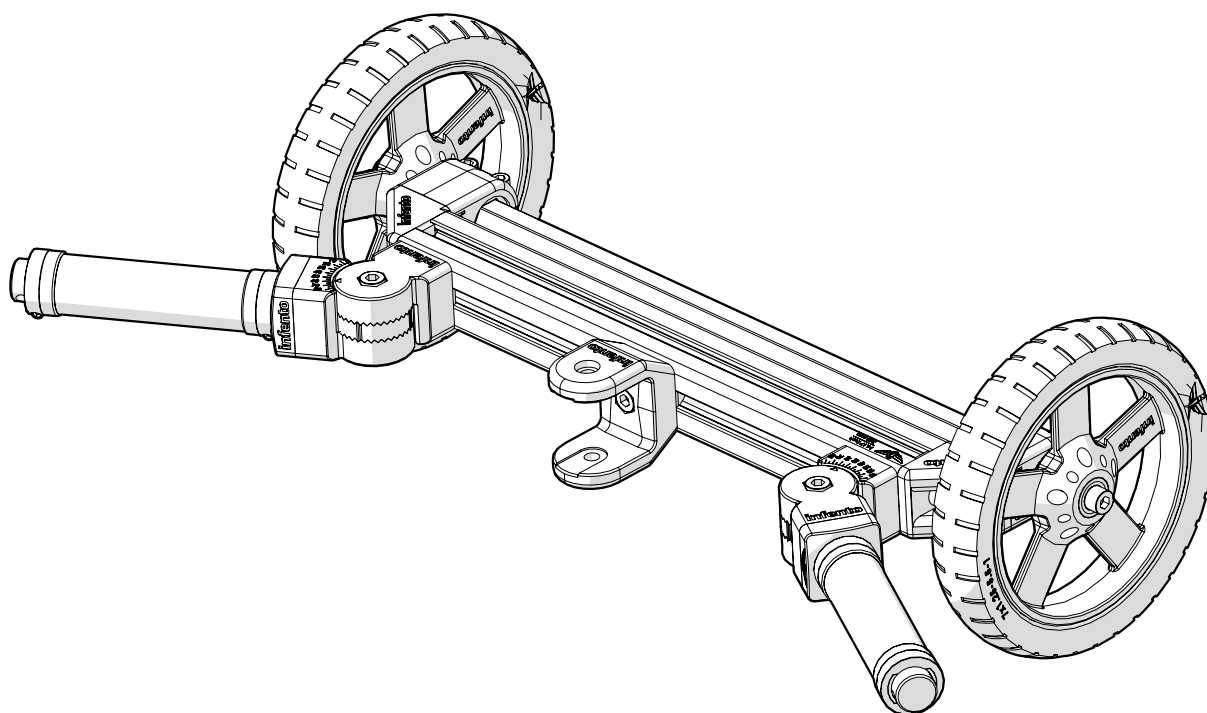
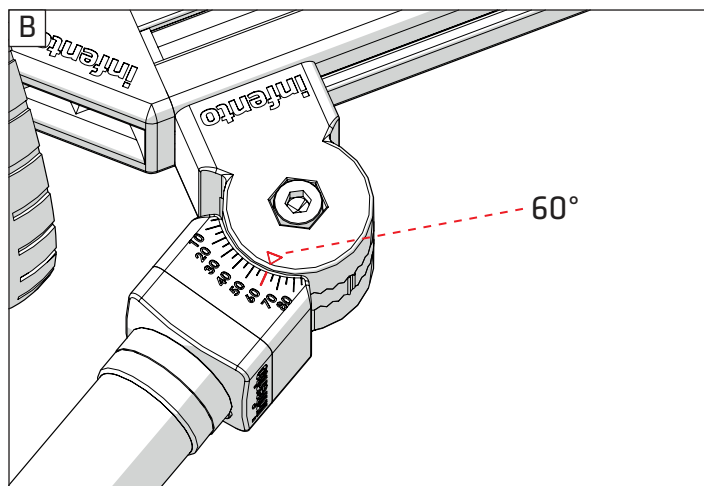
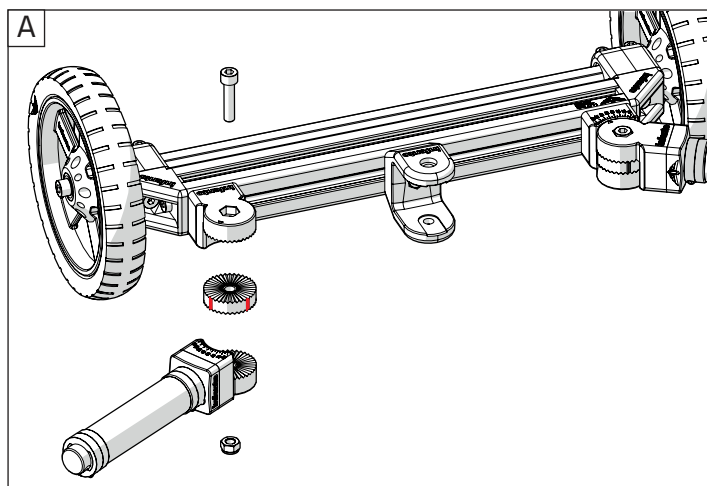
Locknut M8

1x



Knurled disc 2 stripes

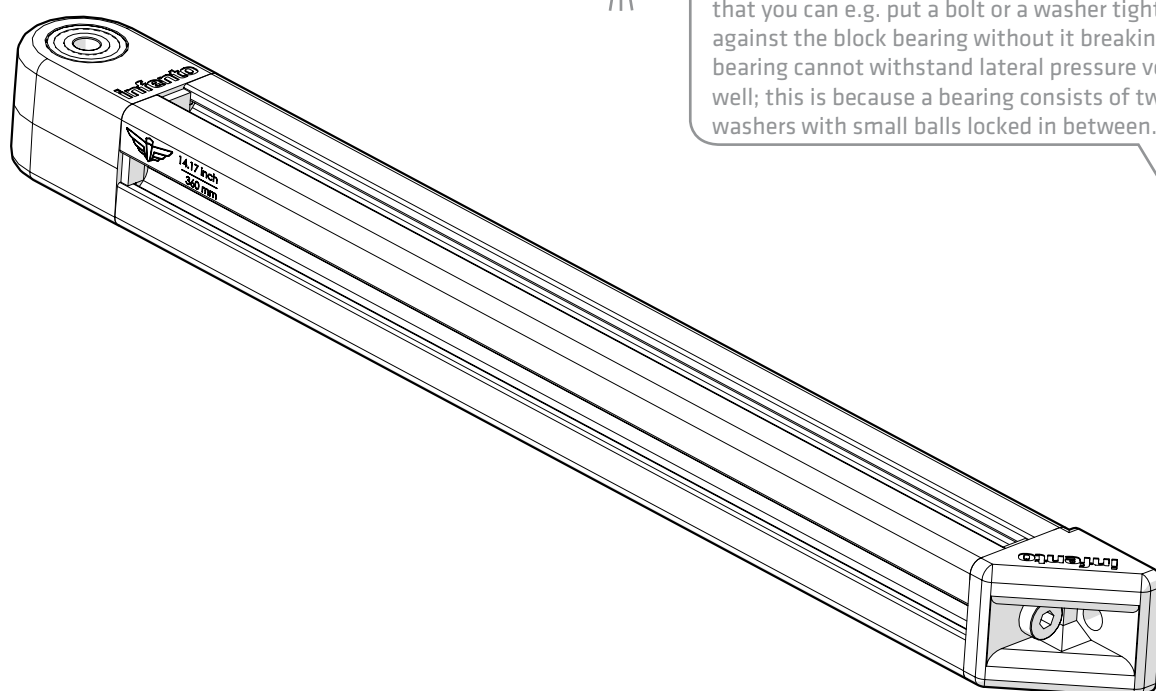
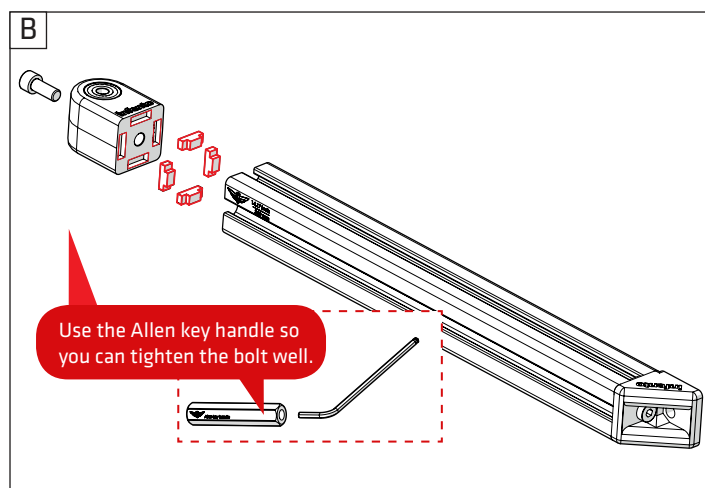
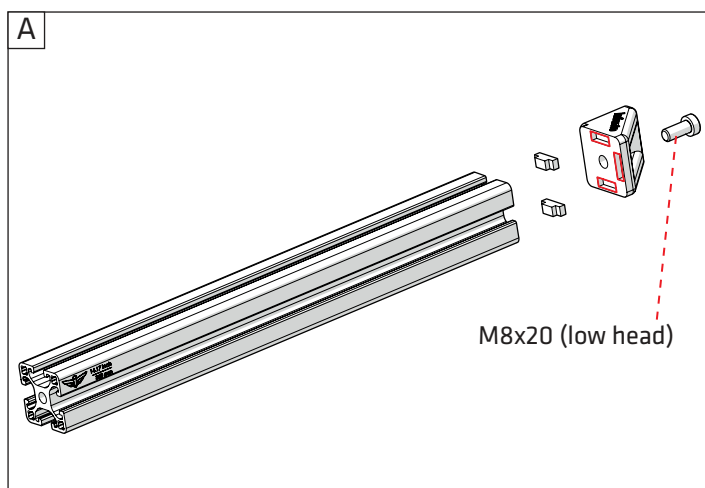
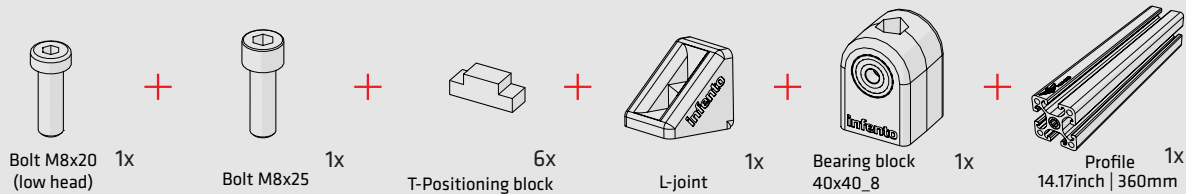
1x





# 14

ride **TWISTER**



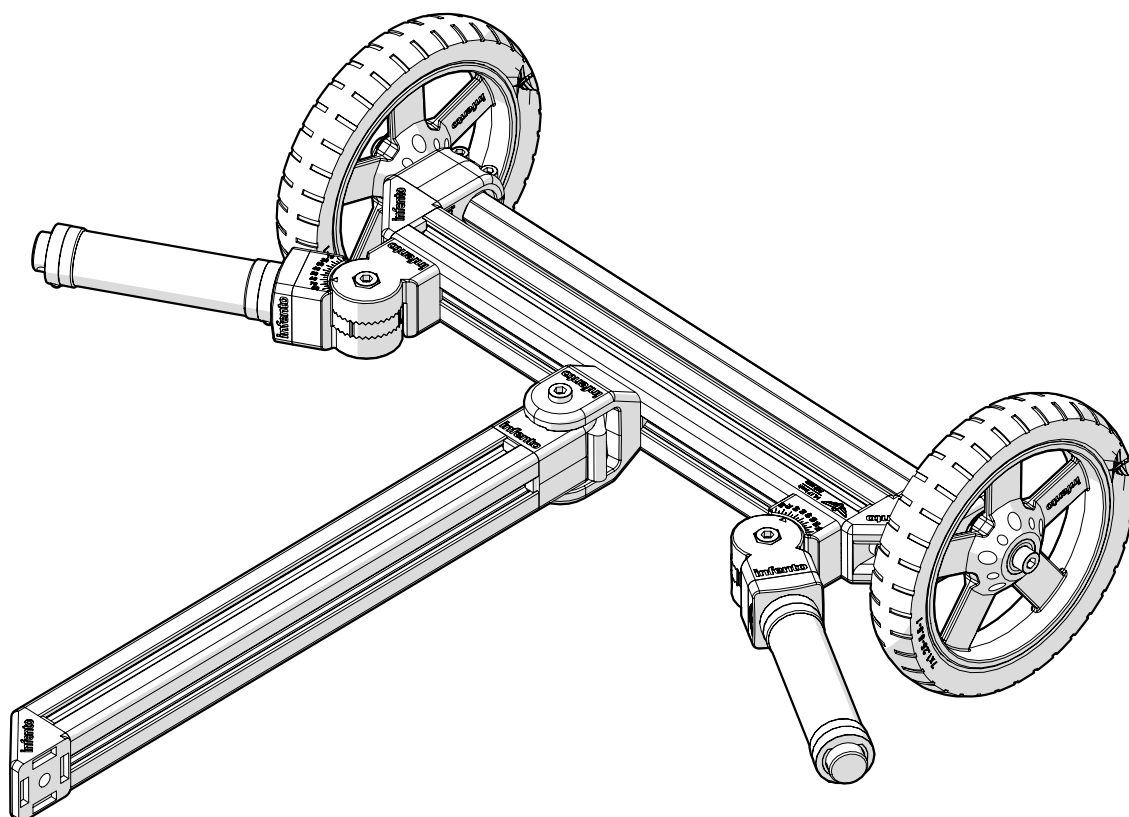
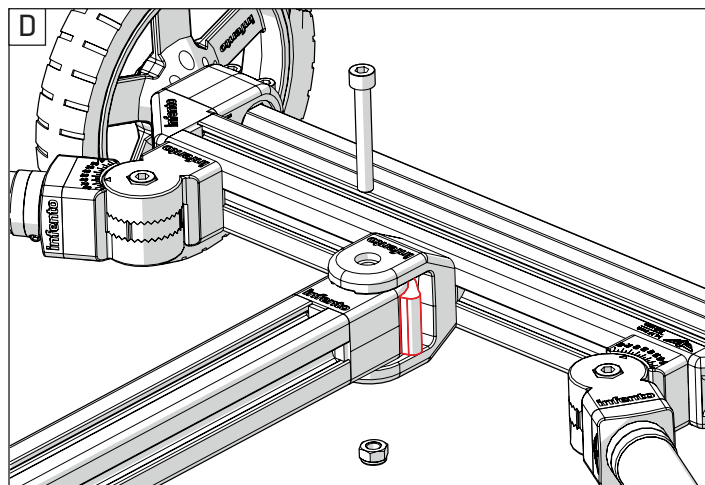
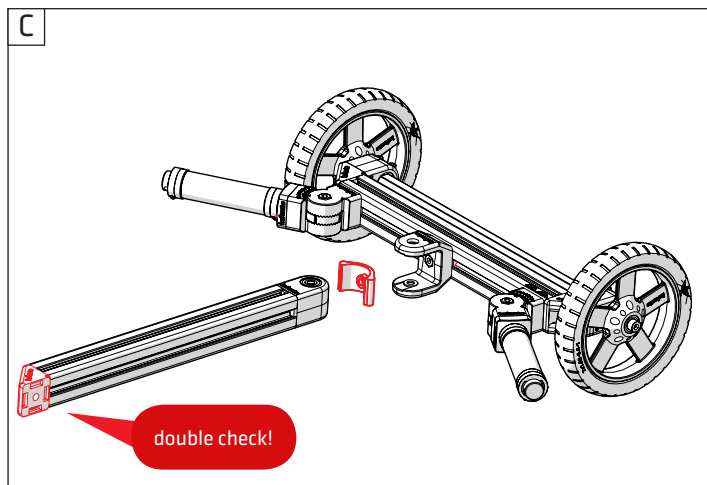
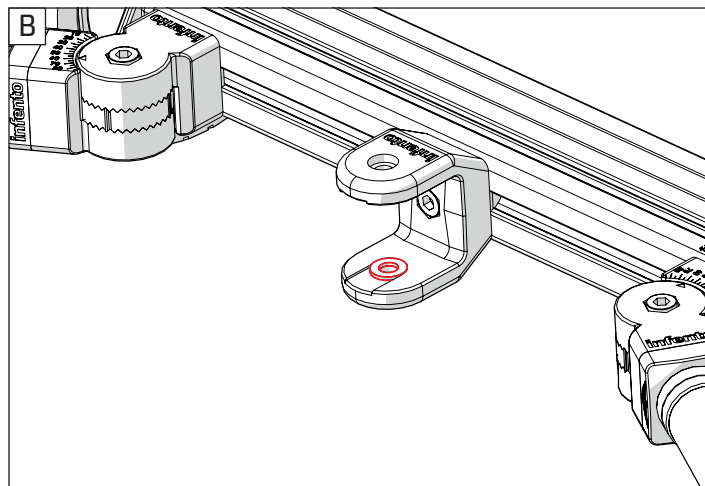
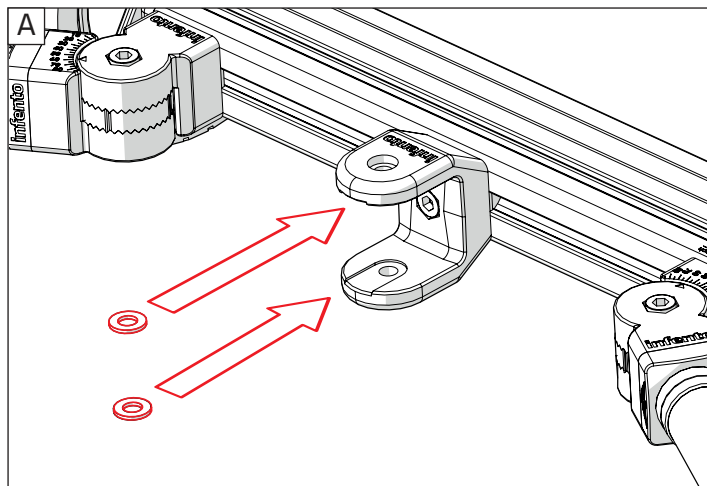
All Infento block bearings have two bearings with a spacer in between. This ensures that you can e.g. put a bolt or a washer tightly against the block bearing without it breaking. A bearing cannot withstand lateral pressure very well; this is because a bearing consists of two washers with small balls locked in between.



# 15

ride **TWISTER**

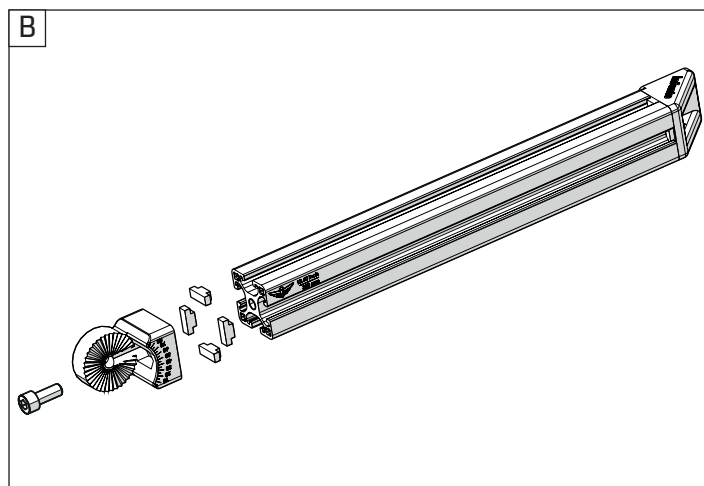
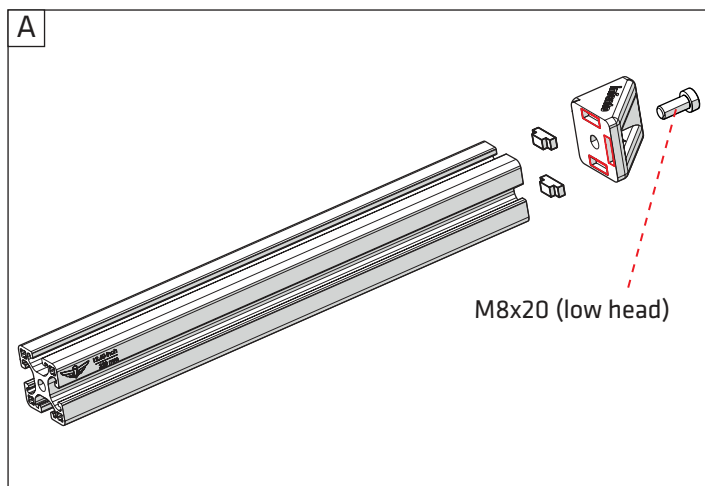
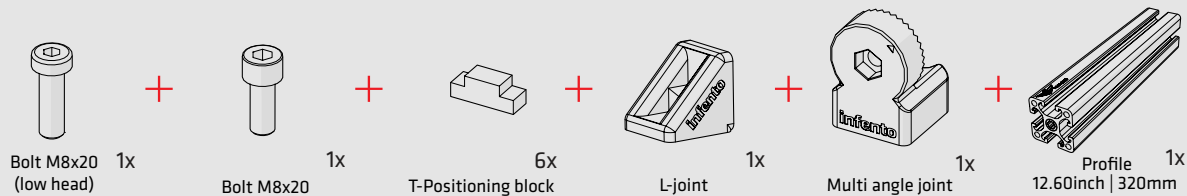
Washer M8-16 2x    Locknut M8 1x    Bolt M8x60 1x    Angle limiter 40° 1x



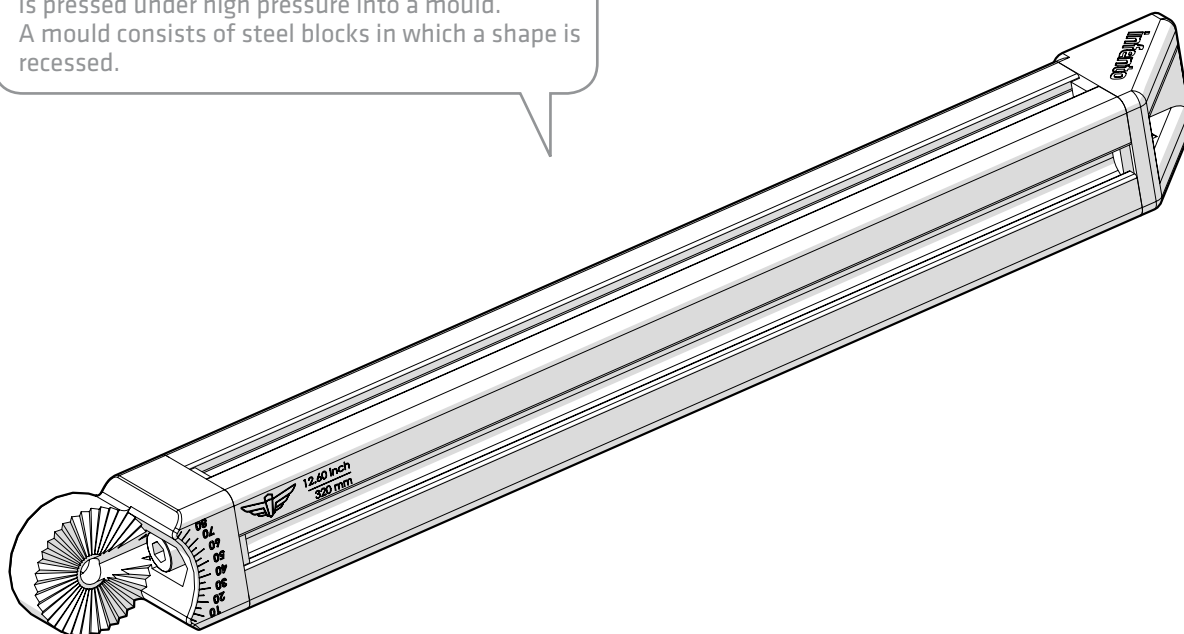


# 16

ride **TWISTER**



The plastic parts of Infento are made using injection moulding technology where molten plastic is pressed under high pressure into a mould. A mould consists of steel blocks in which a shape is recessed.







# 17

ride **TWISTER**



Bolt M8x20  
(low head)

+



T-Positioning block

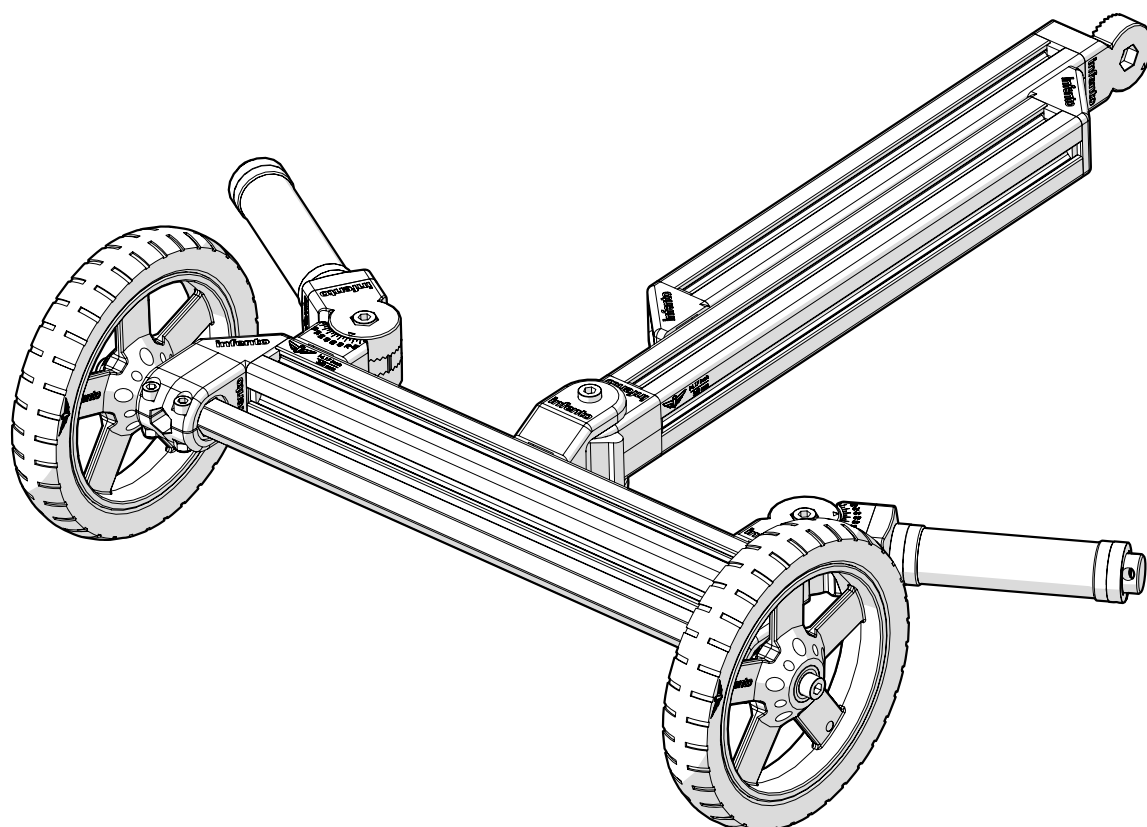
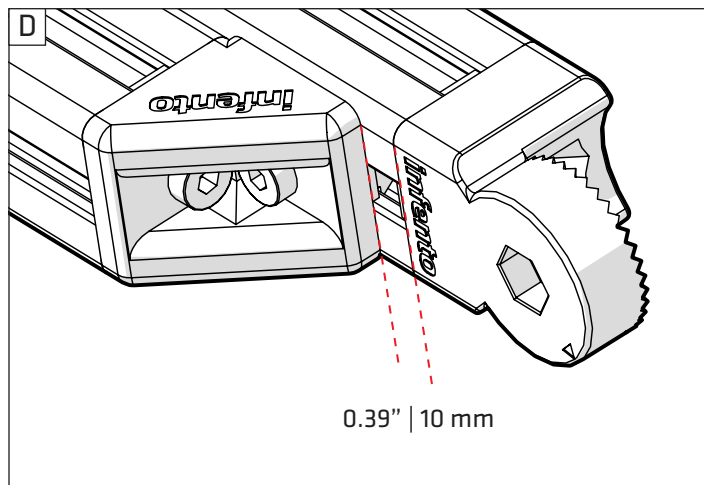
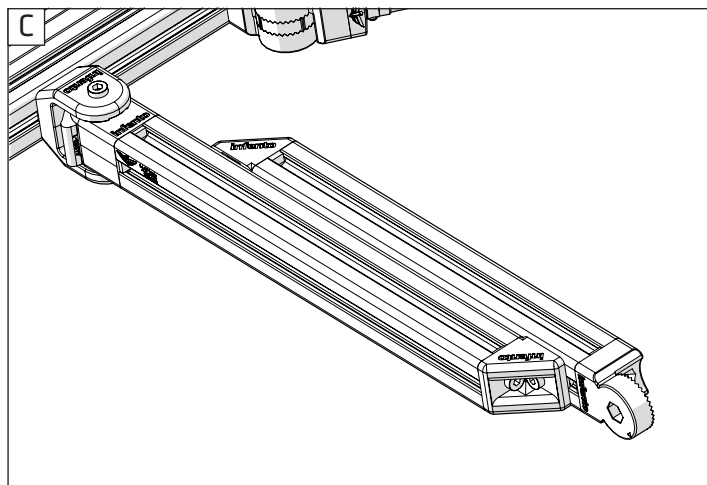
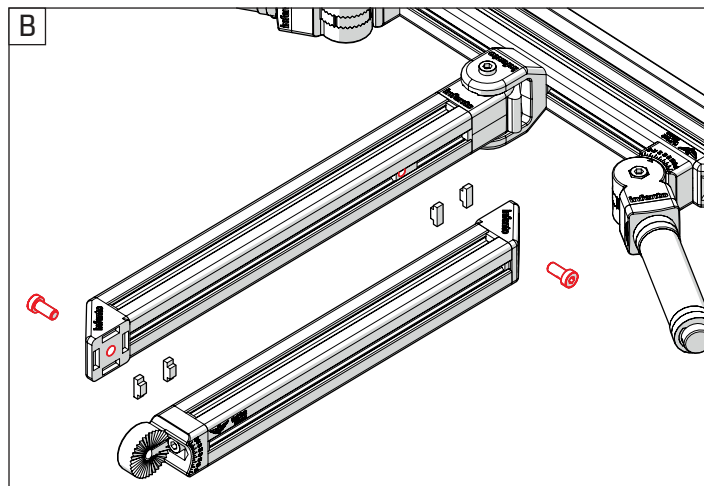
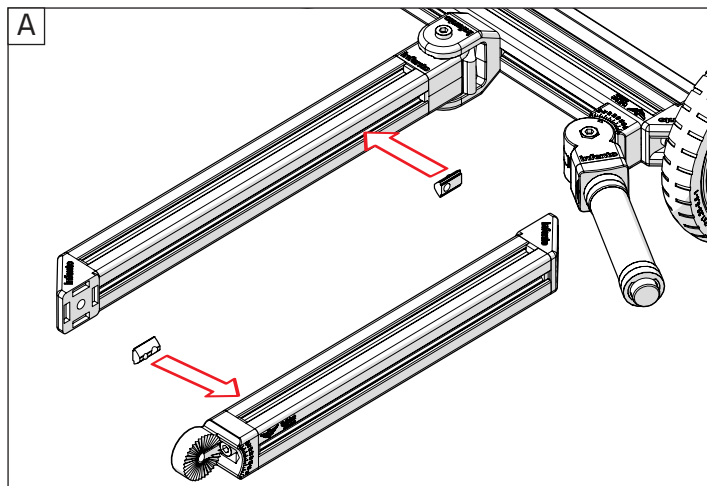
+



Profile nut short

2x

4x

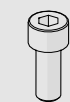






# 18

ride **TWISTER**



Bolt M8x20

+

1x



T-Positioning block

+

2x



Profile nut short

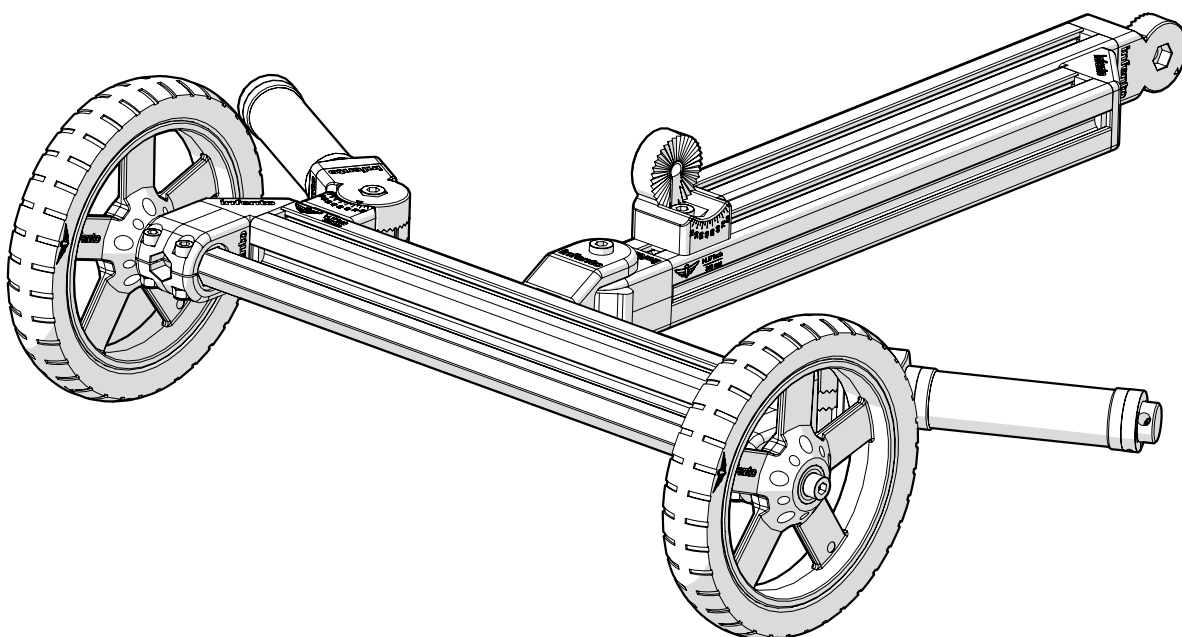
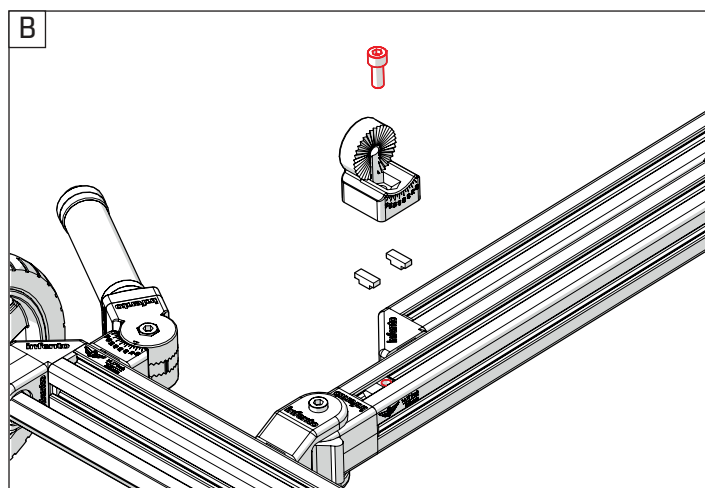
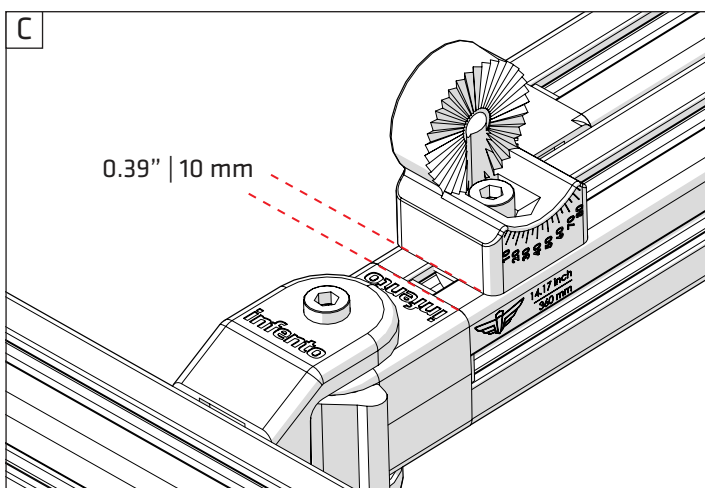
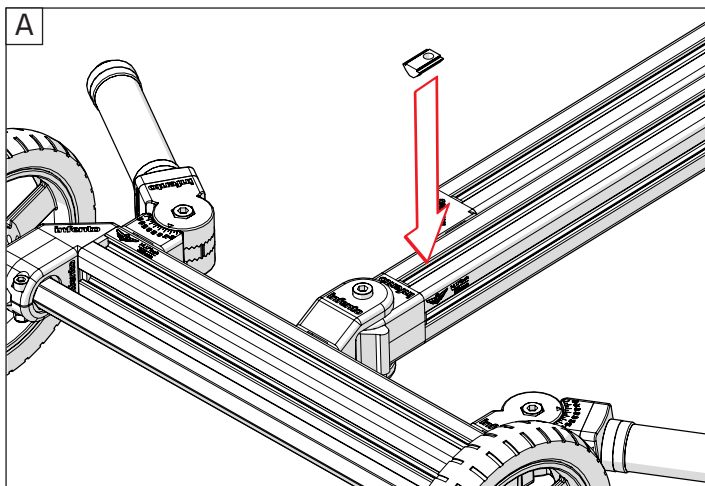
+

1x



Multi angle joint

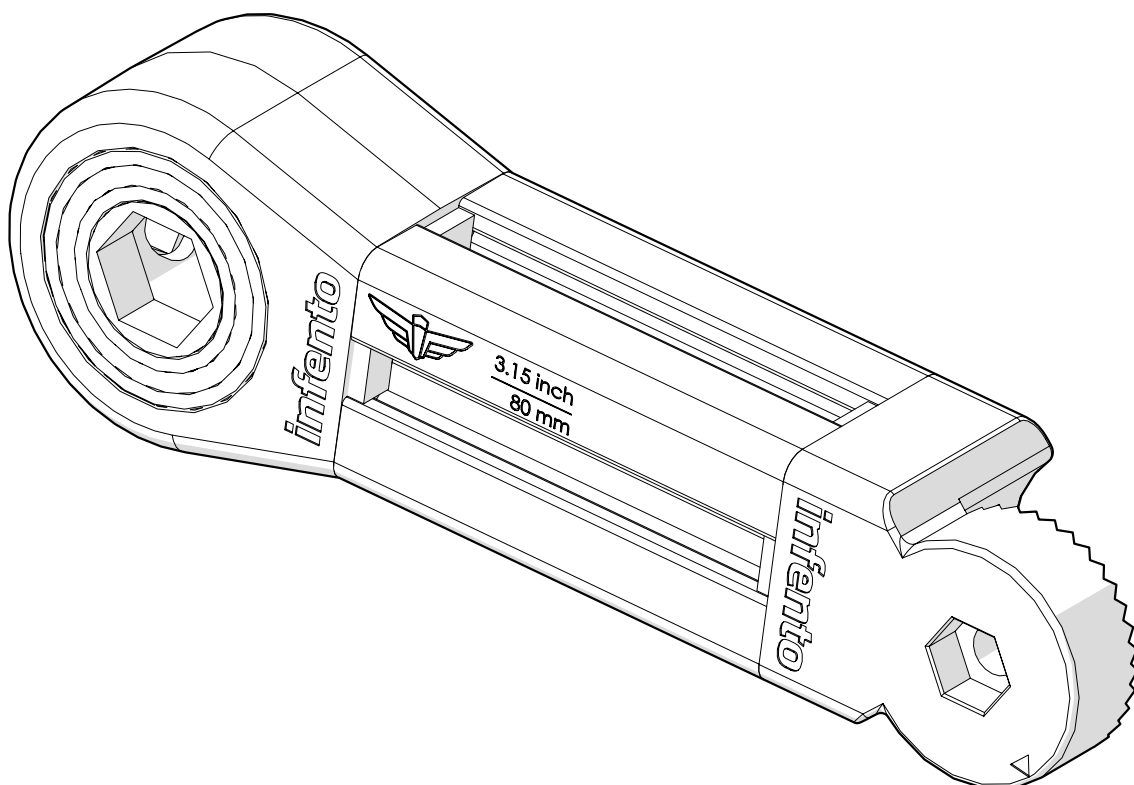
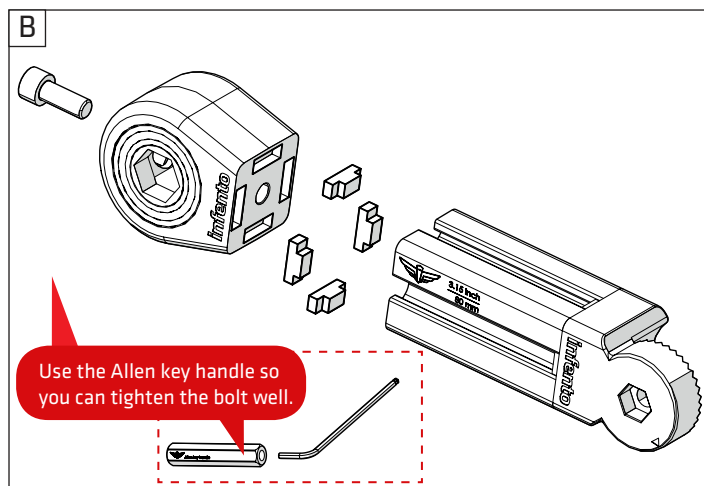
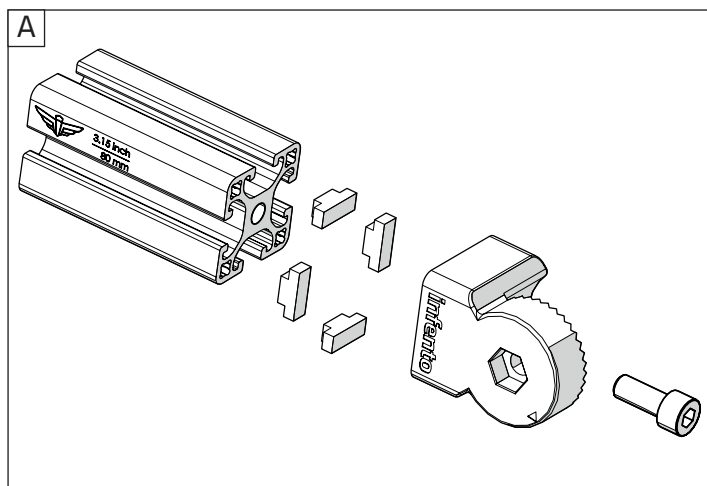
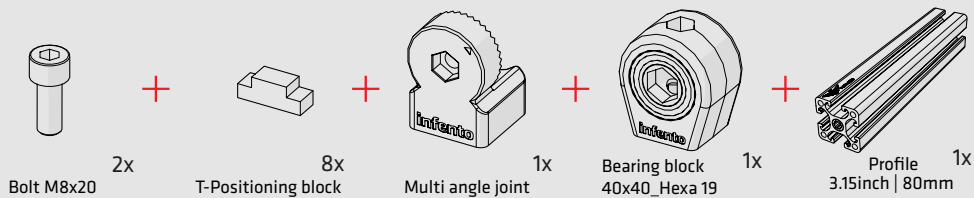
1x





# 19

ride **TWISTER**





20

ride *TWISTER*



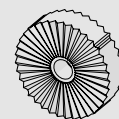
Bolt M8x35

1x



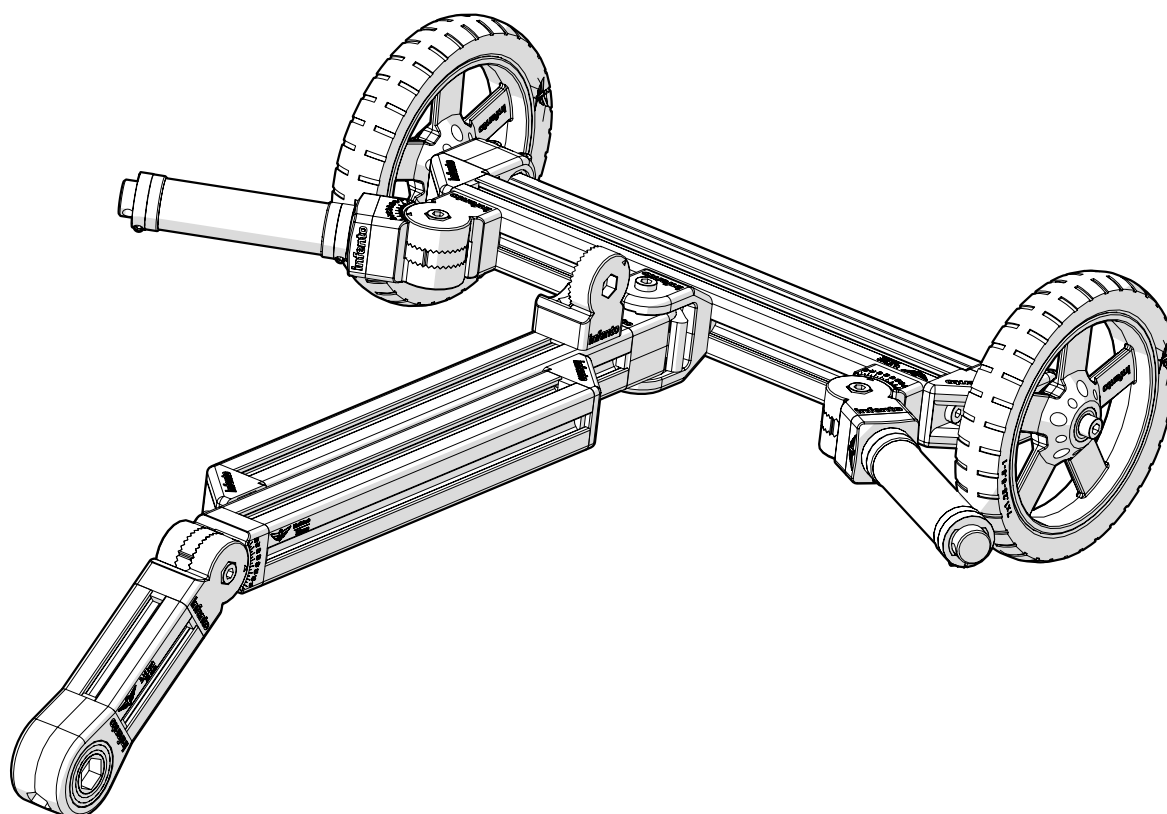
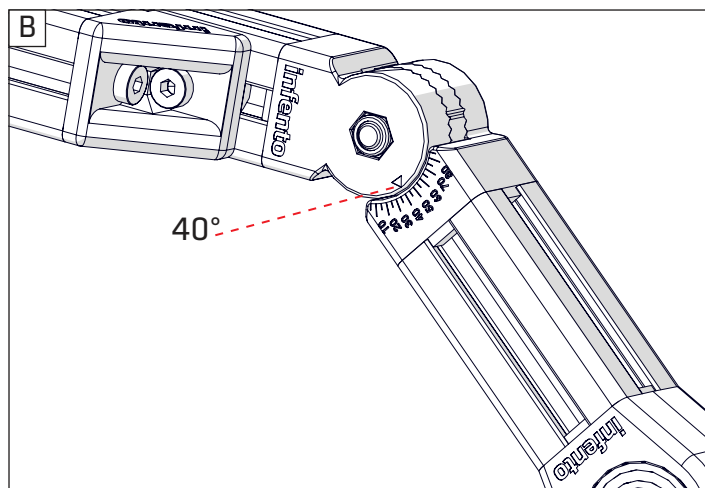
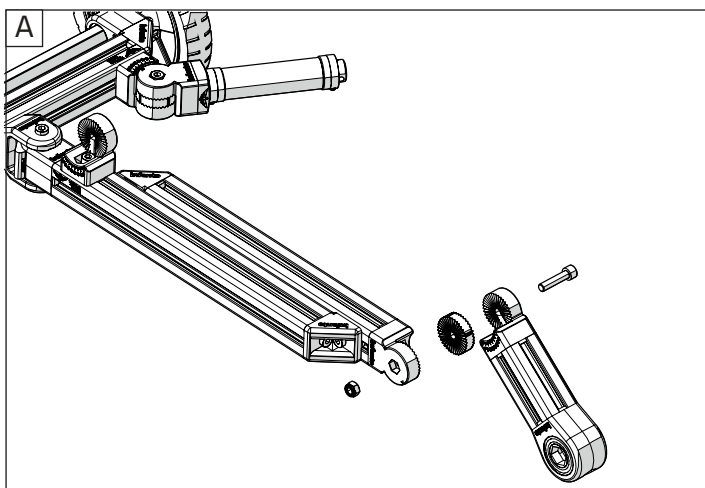
Locknut M8

1x



Knurled disc 2 stripes

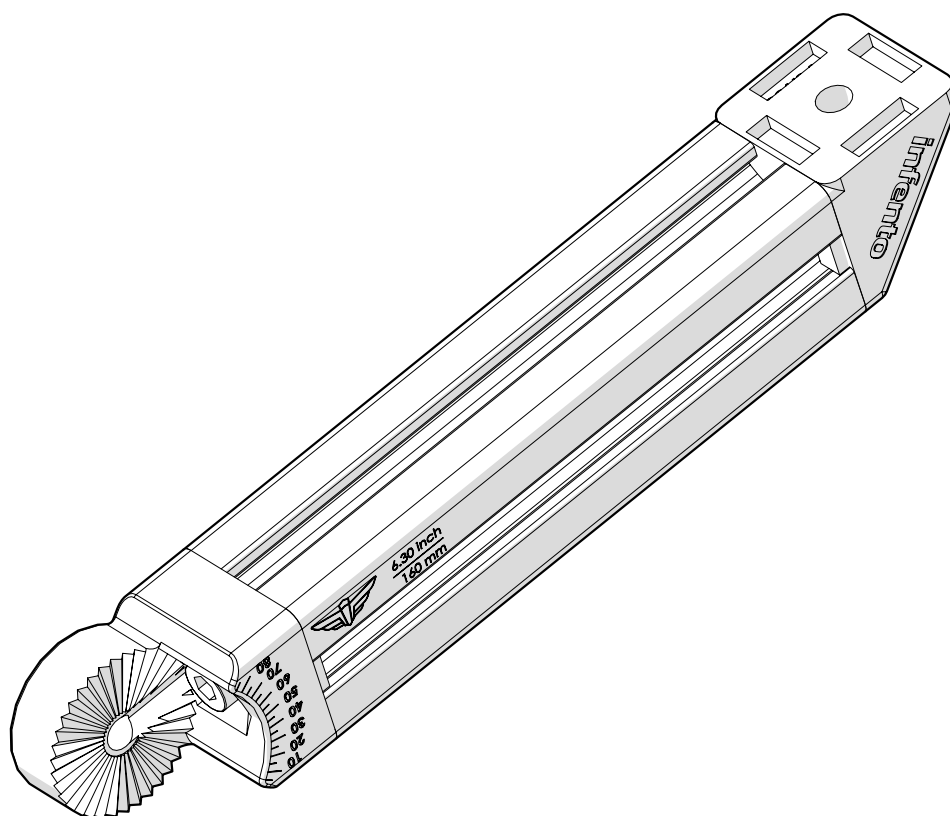
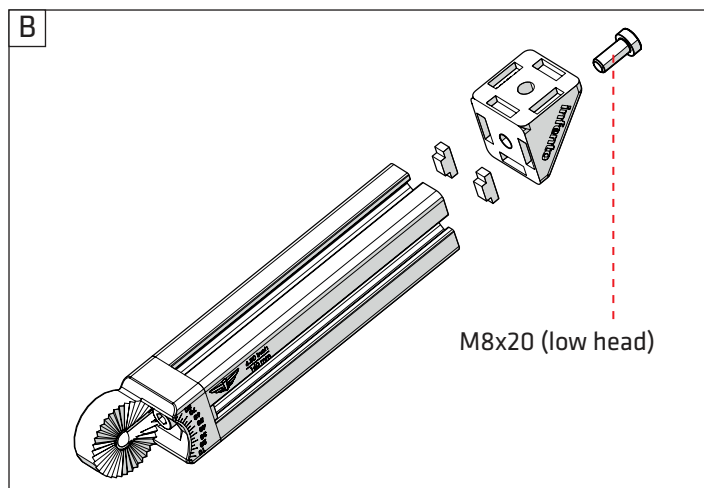
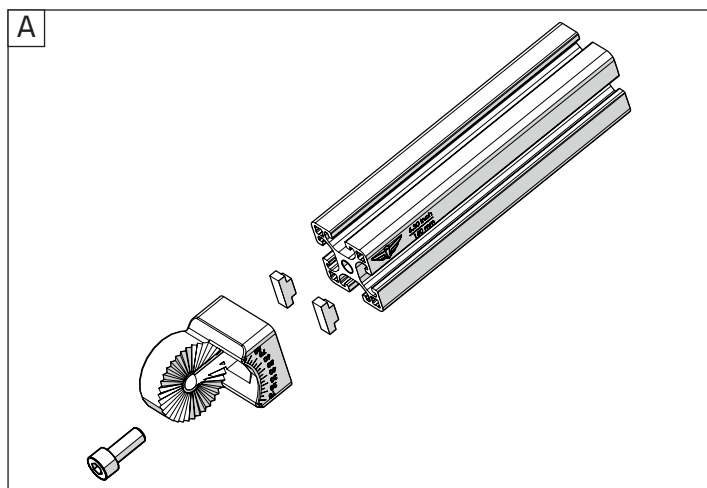
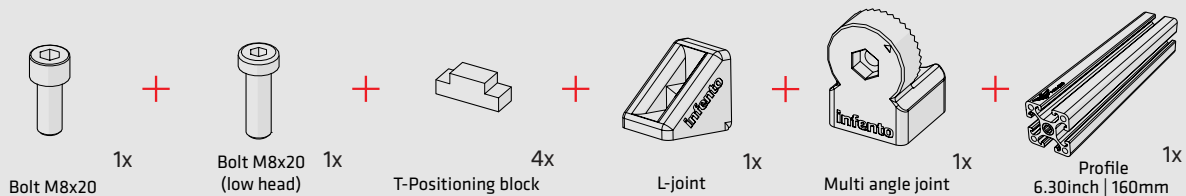
1x





# 21

ride *TWISTER*





# 22

ride **TWISTER**



Nut M8

1x



Bolt M8x20

1x



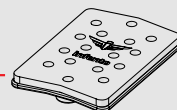
Bolt M8x25

1x



Profile nut short

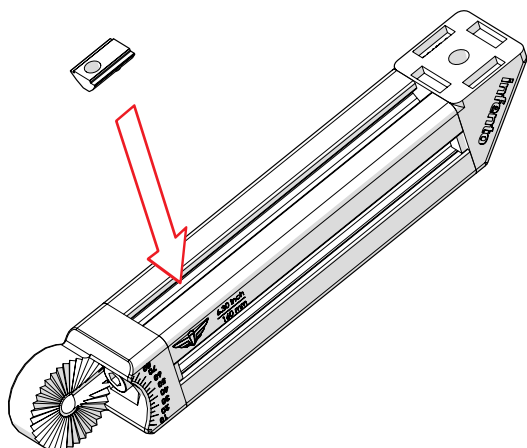
1x



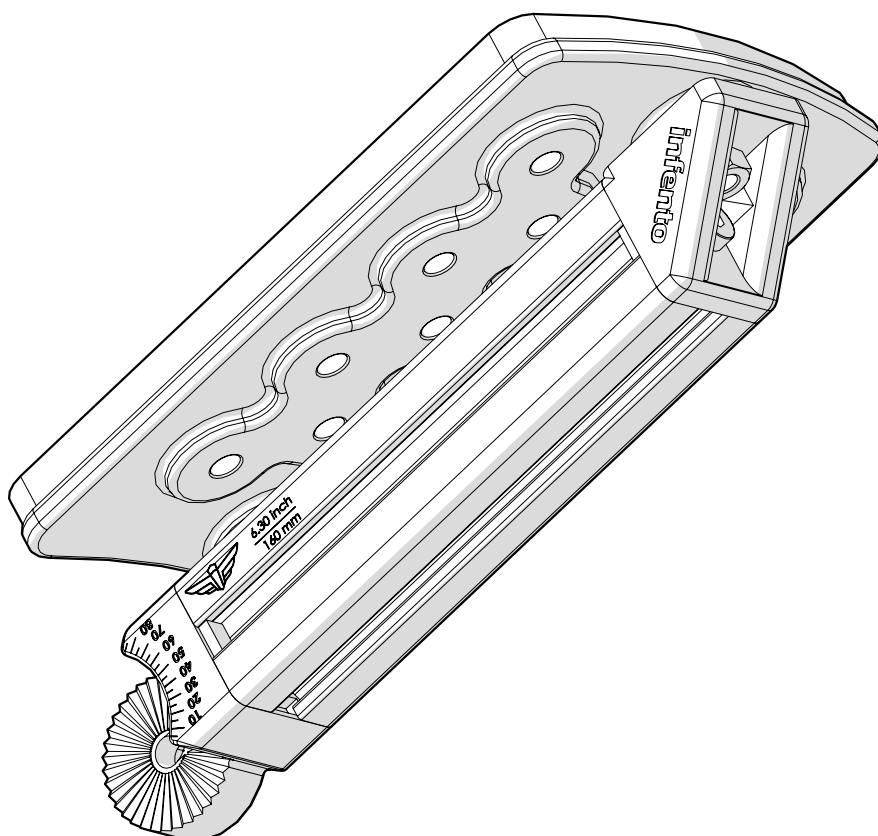
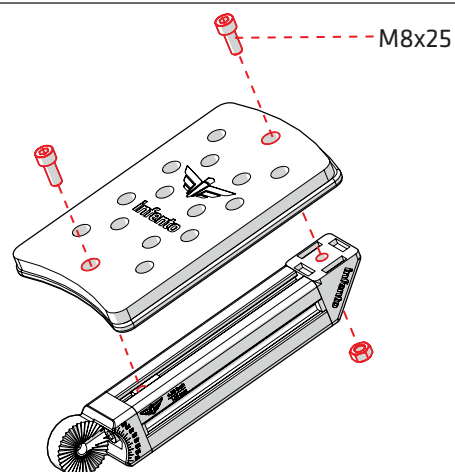
Ducktail board extension + foam

2x

A



B





# 23

ride *TWISTER*



Bolt M8x35

1x

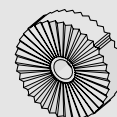
+



Locknut M8

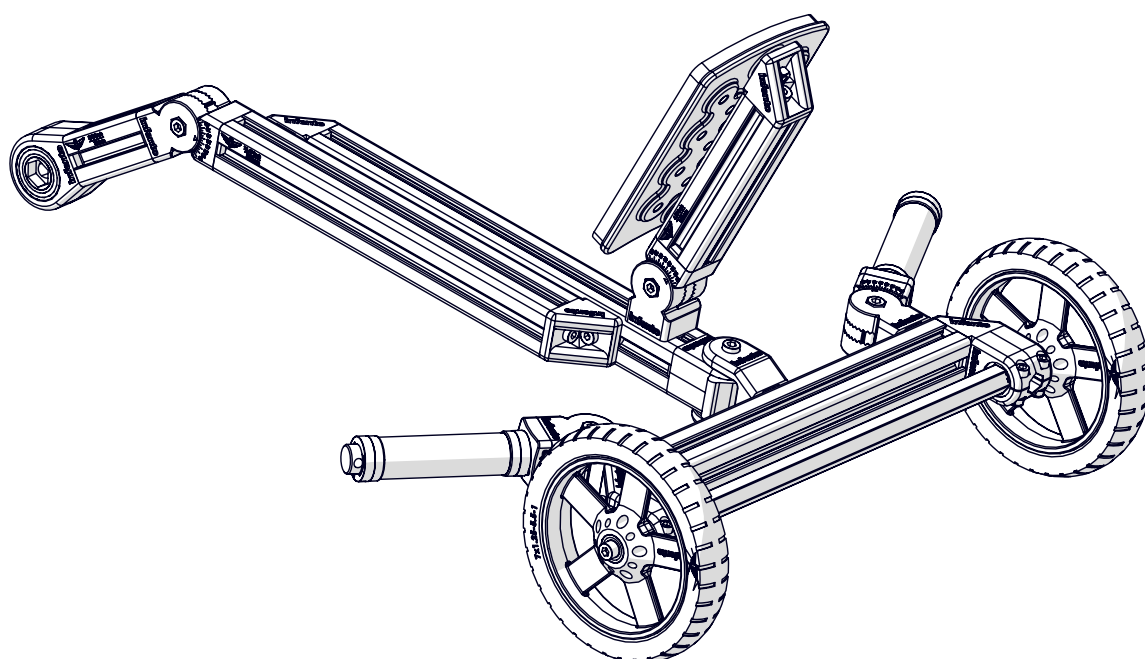
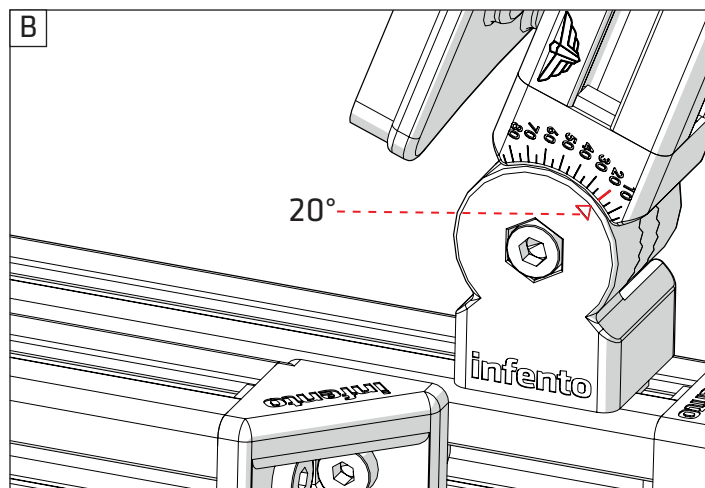
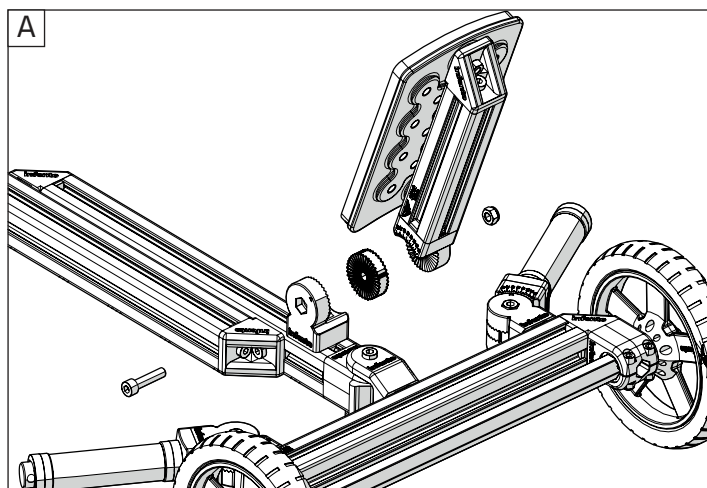
1x

+



Knurled disc 2 stripes

1x







# 24

ride **TWISTER**



2x

Bolt M8x20

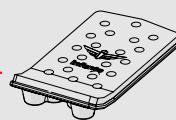
+



2x

Profile nut short

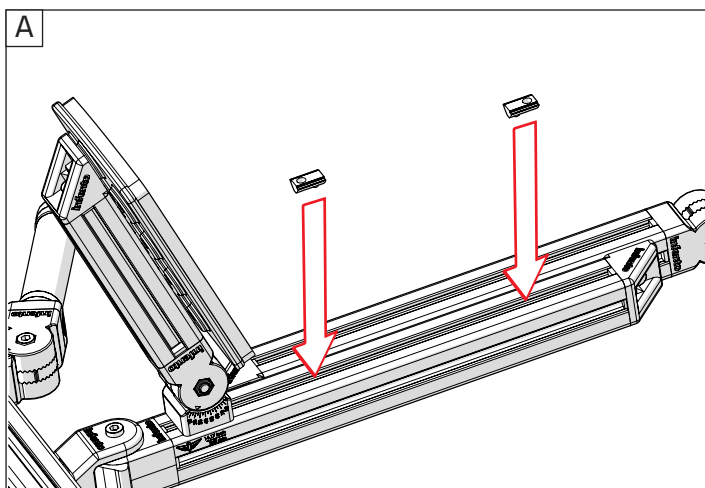
+



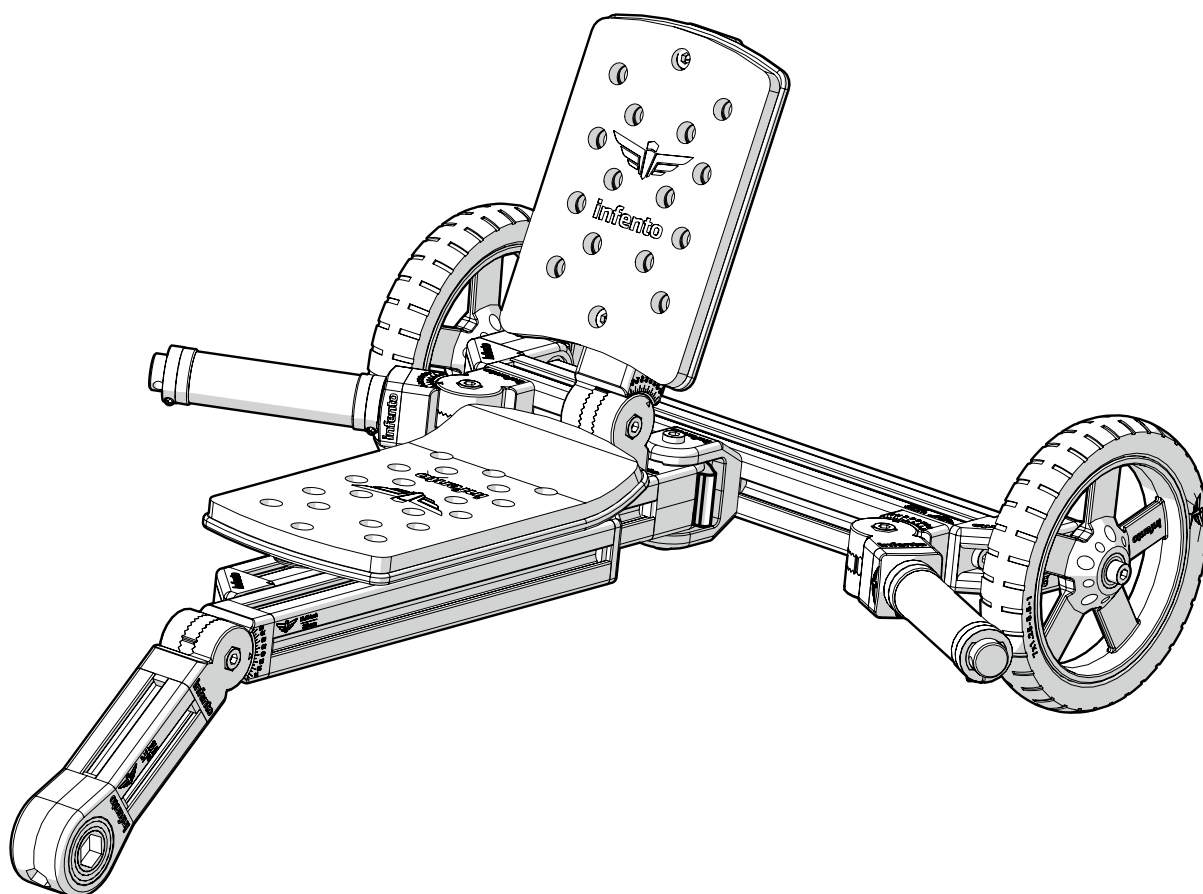
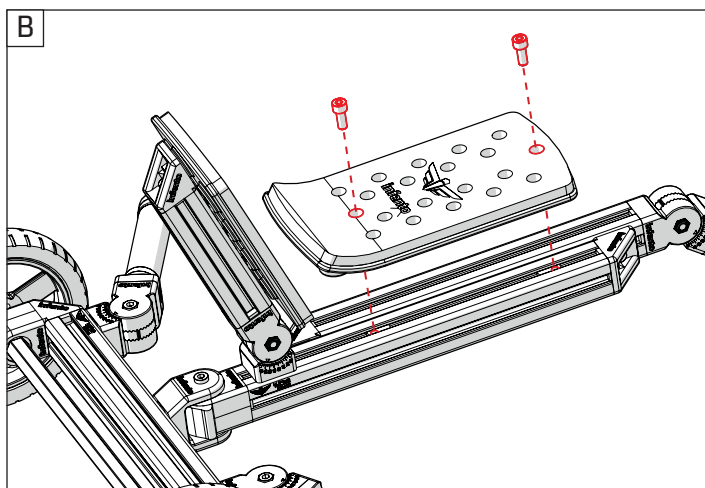
Ducktail board  
+ foam

1x

A



B

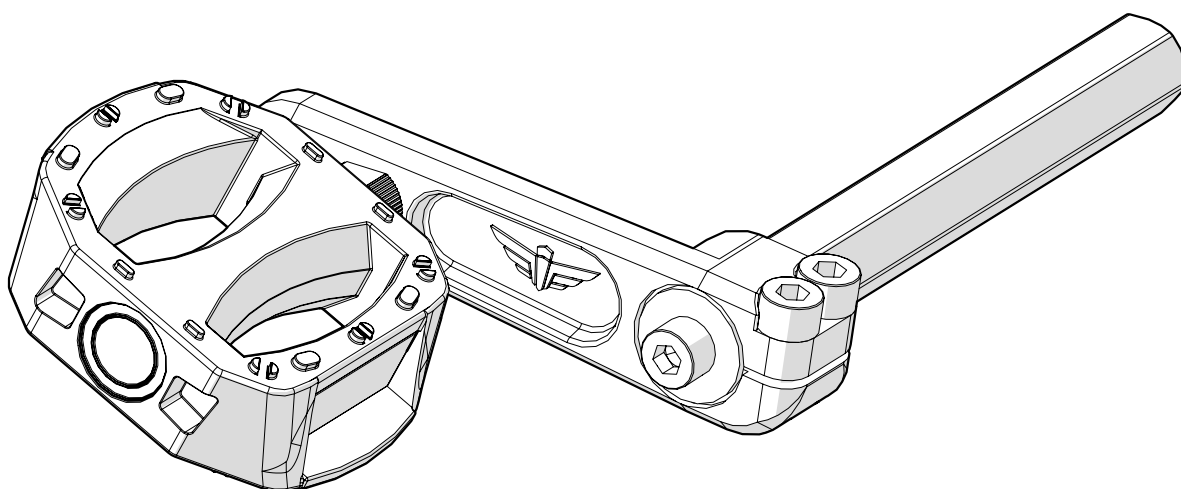
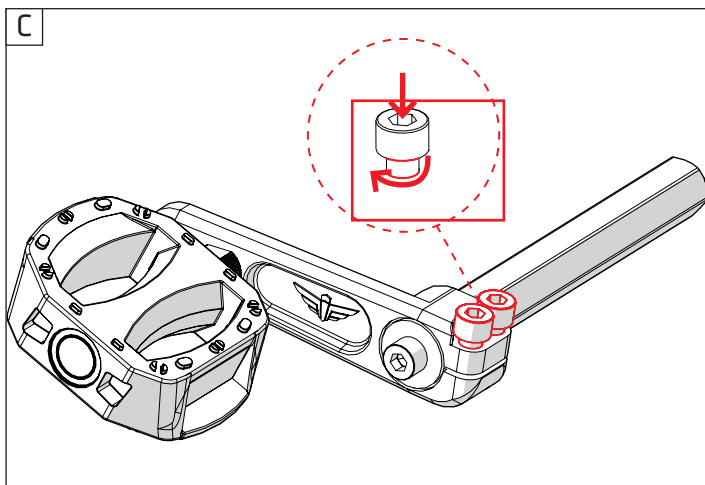
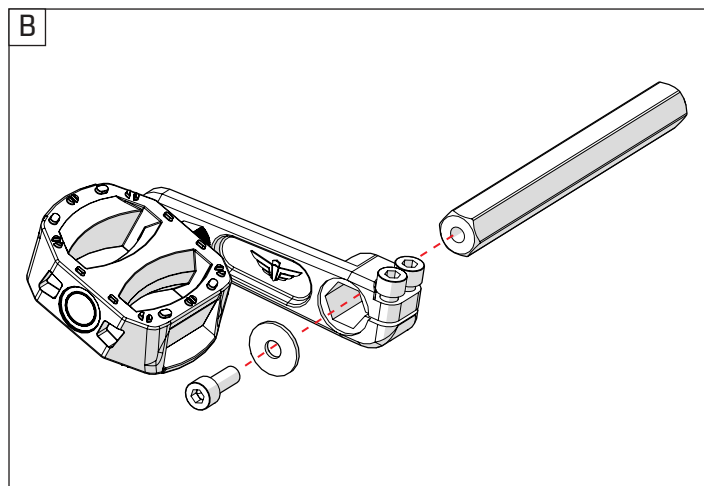
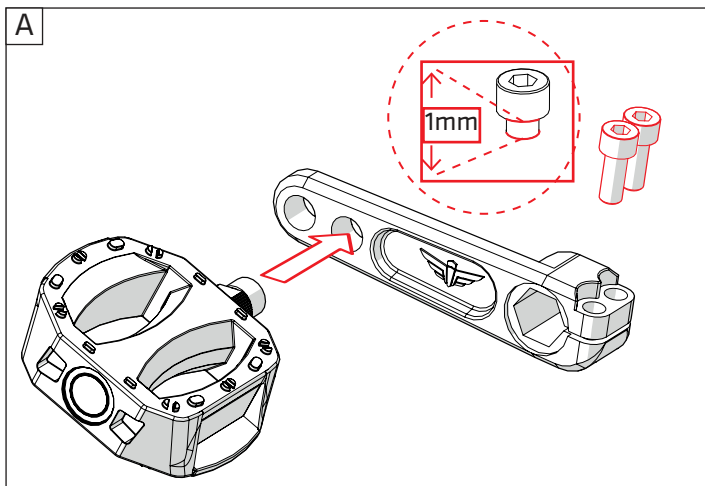
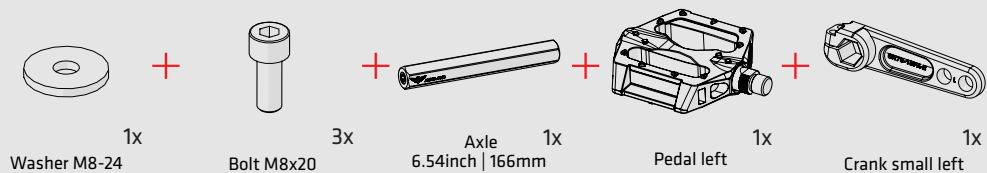






# 25

ride **TWISTER**





# 26

ride **TWISTER**



+



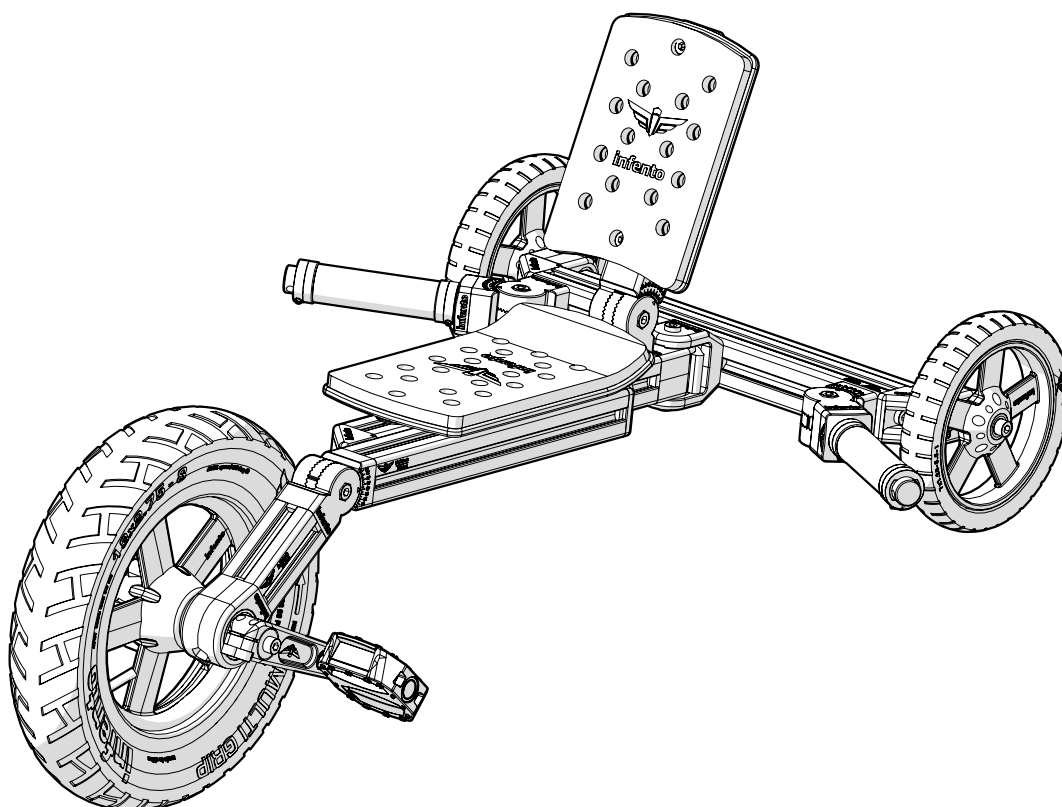
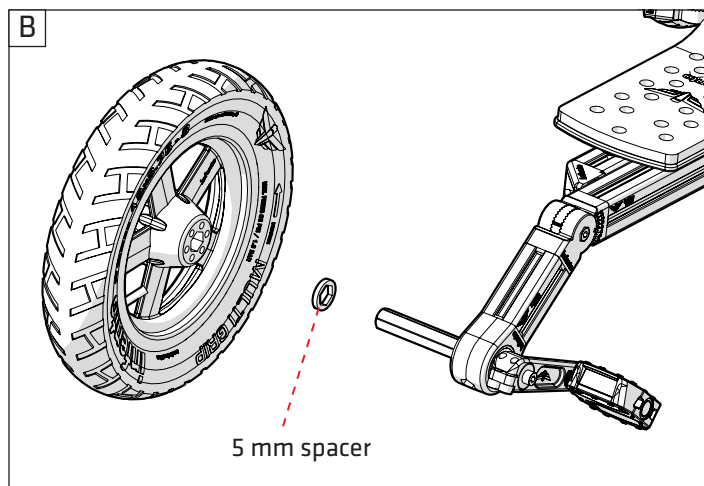
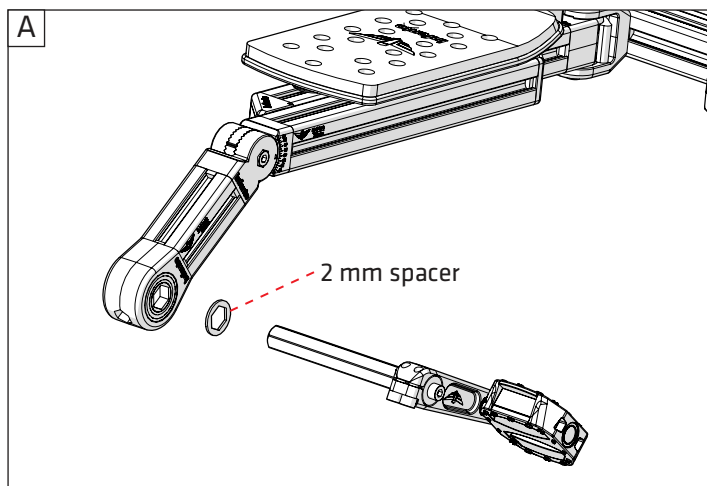
+



Spacer 1x  
0.04inch | 1 mm

Spacer 1x  
0.2inch | 5 mm

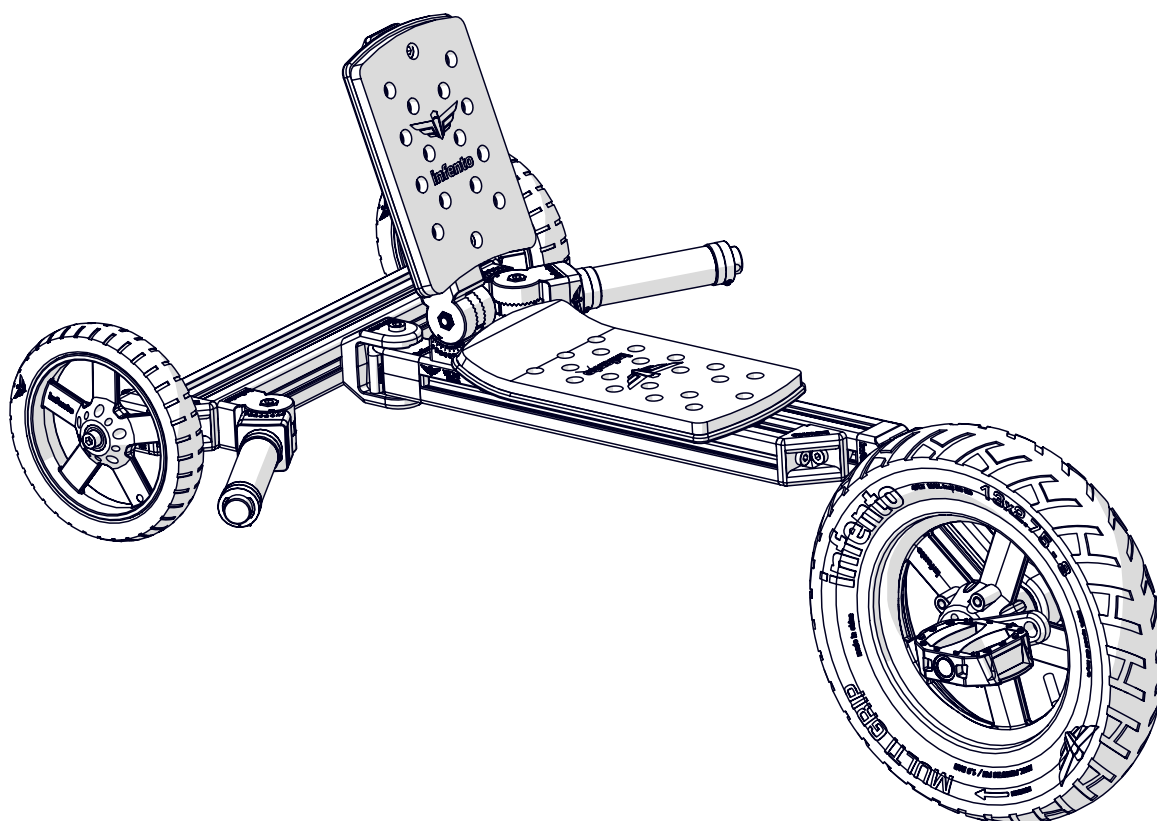
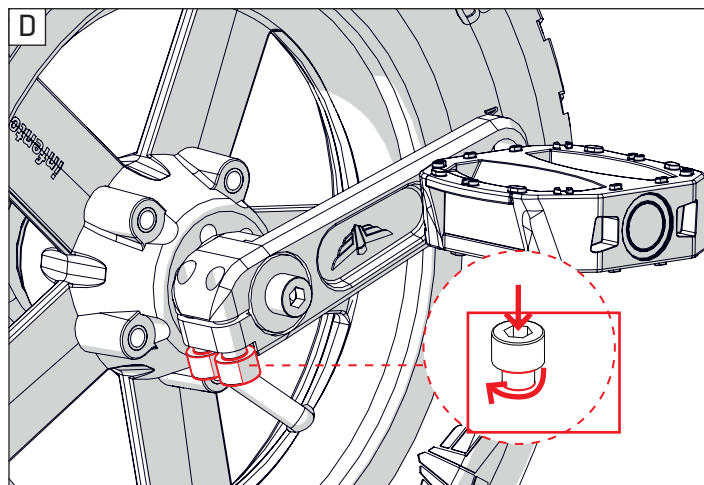
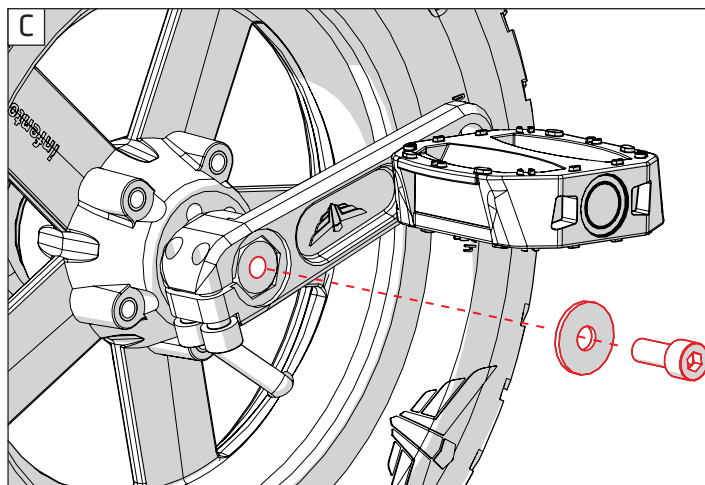
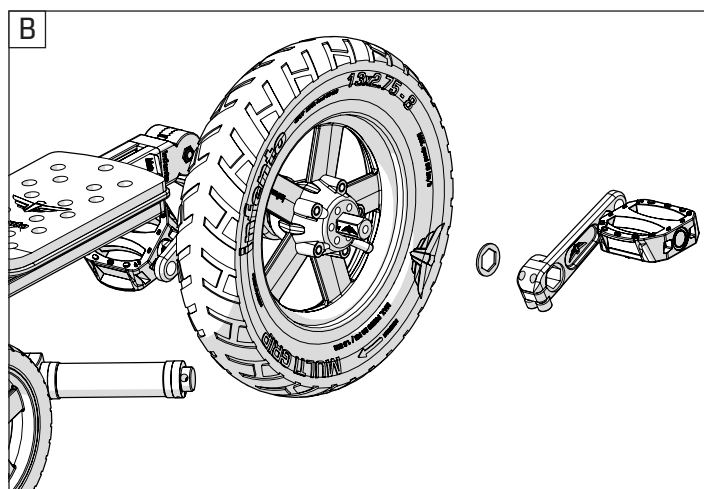
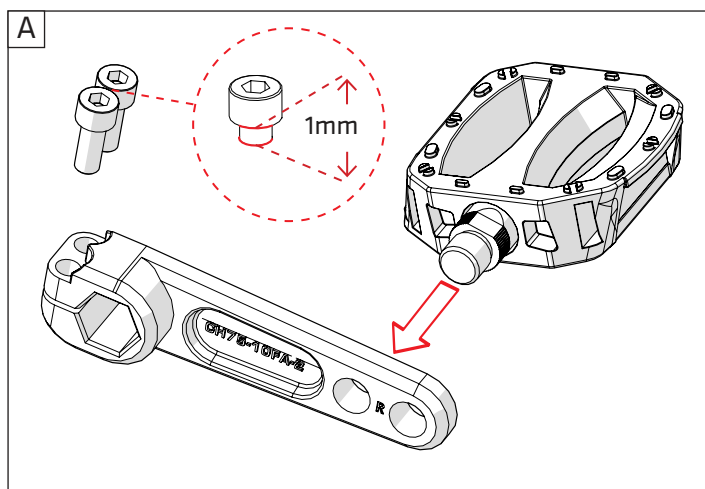
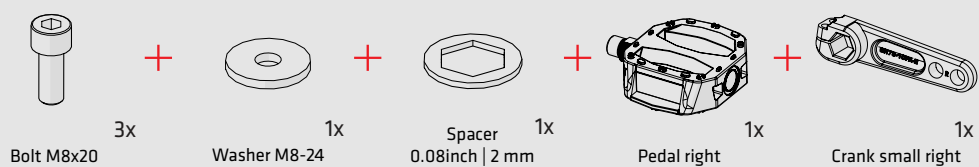
13 inch 1x  
Driven wheel





# 27

ride **TWISTER**



# TWISTER



THANK YOU FOR READING ME!