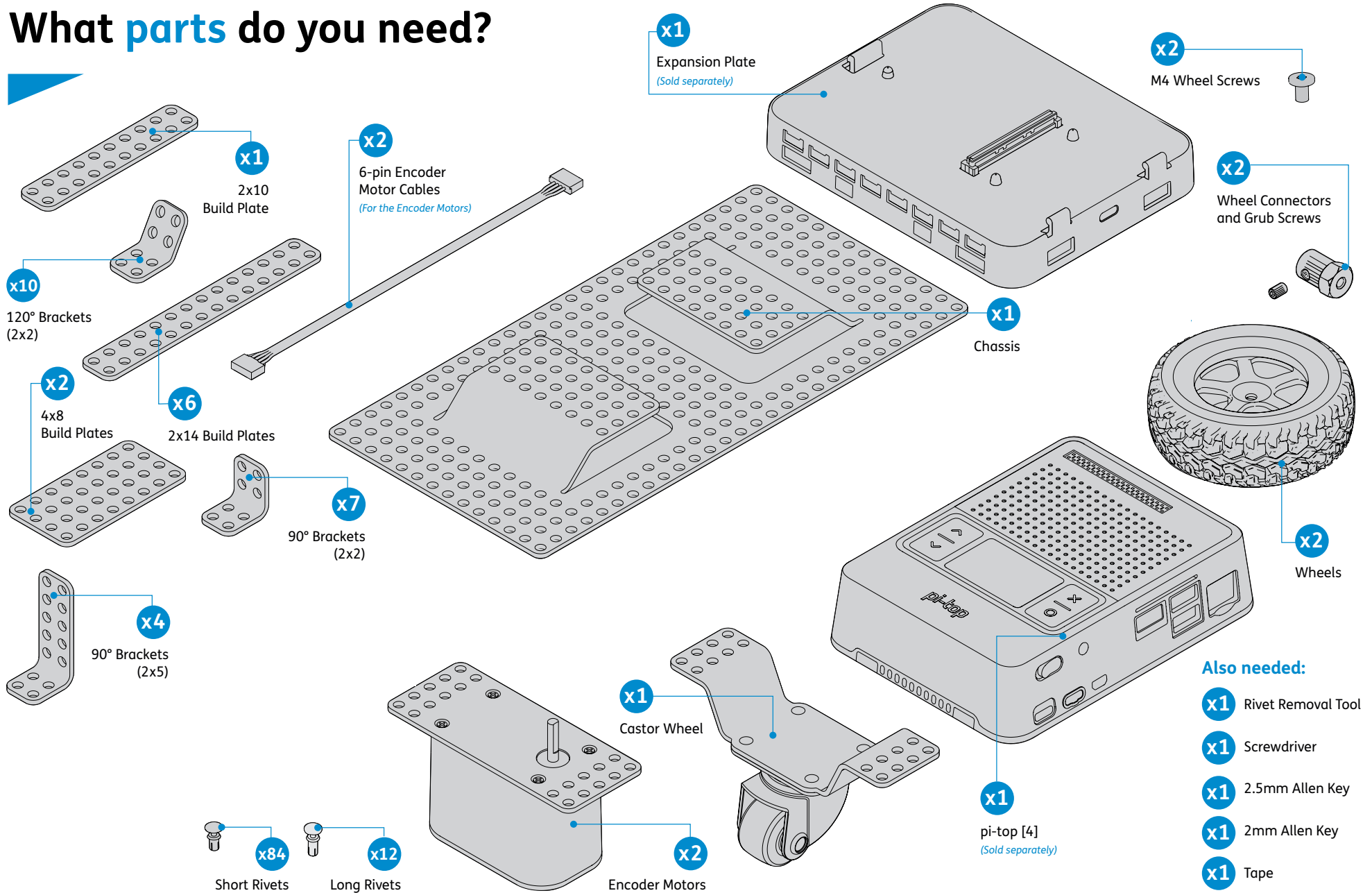


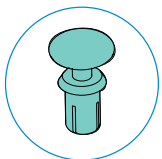
What parts do you need?



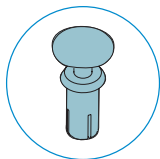
How to use the rivets



The Robotics Kit contains two types of rivet:

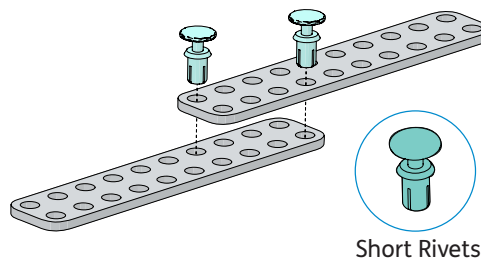


Short Rivets



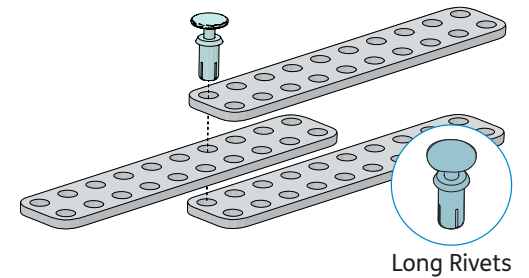
Long Rivets

2 Connecting 2 Build Plates



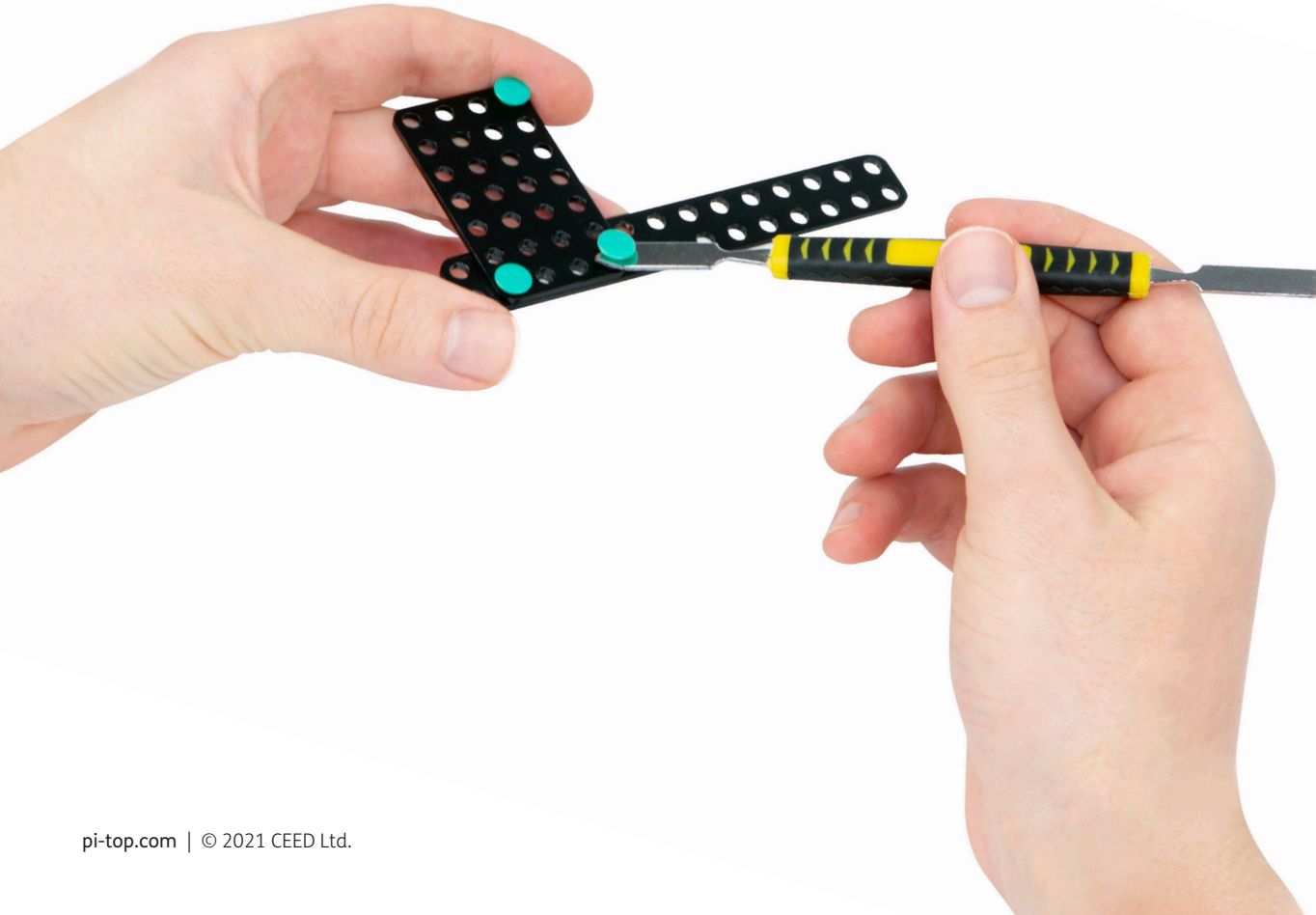
1. Two rivets are inserted into the top holes of the upper build plate.
2. The rivets are pushed down into the top holes of the lower build plate.
3. The rivets are pushed further down until they reach the bottom holes of the lower build plate.
4. The rivets are pushed all the way down until they are fully seated in the bottom holes of the lower build plate.

3 Connecting 3 Build Plates

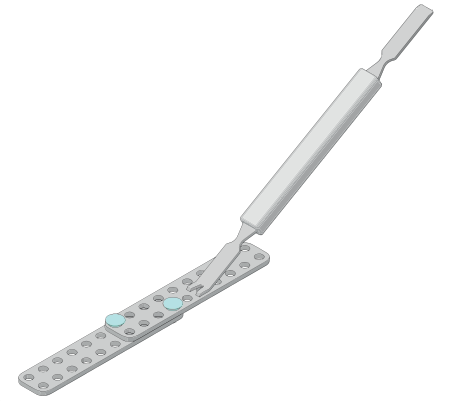


1. One long rivet is inserted into the top hole of the upper build plate.
2. The rivet is pushed down into the top hole of the middle build plate.
3. The rivet is pushed further down into the top hole of the lower build plate.
4. The rivet is pushed all the way down until it is fully seated in the bottom hole of the lower build plate.

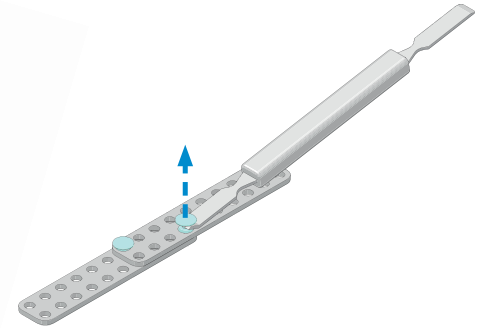
Using the Rivet Removal Tool



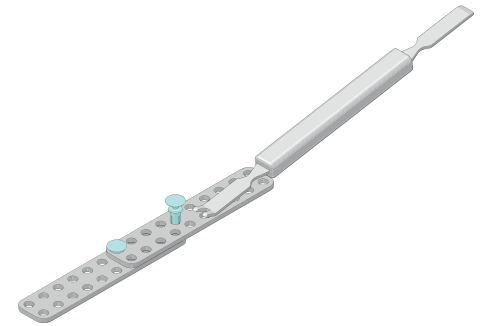
1.



2.

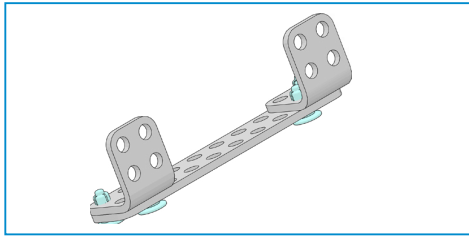


3.



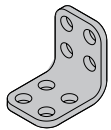
Rear bumper

Part 1



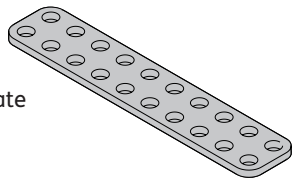
x2

90° Brackets
(2x2)



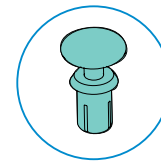
x1

10x2 Build Plate

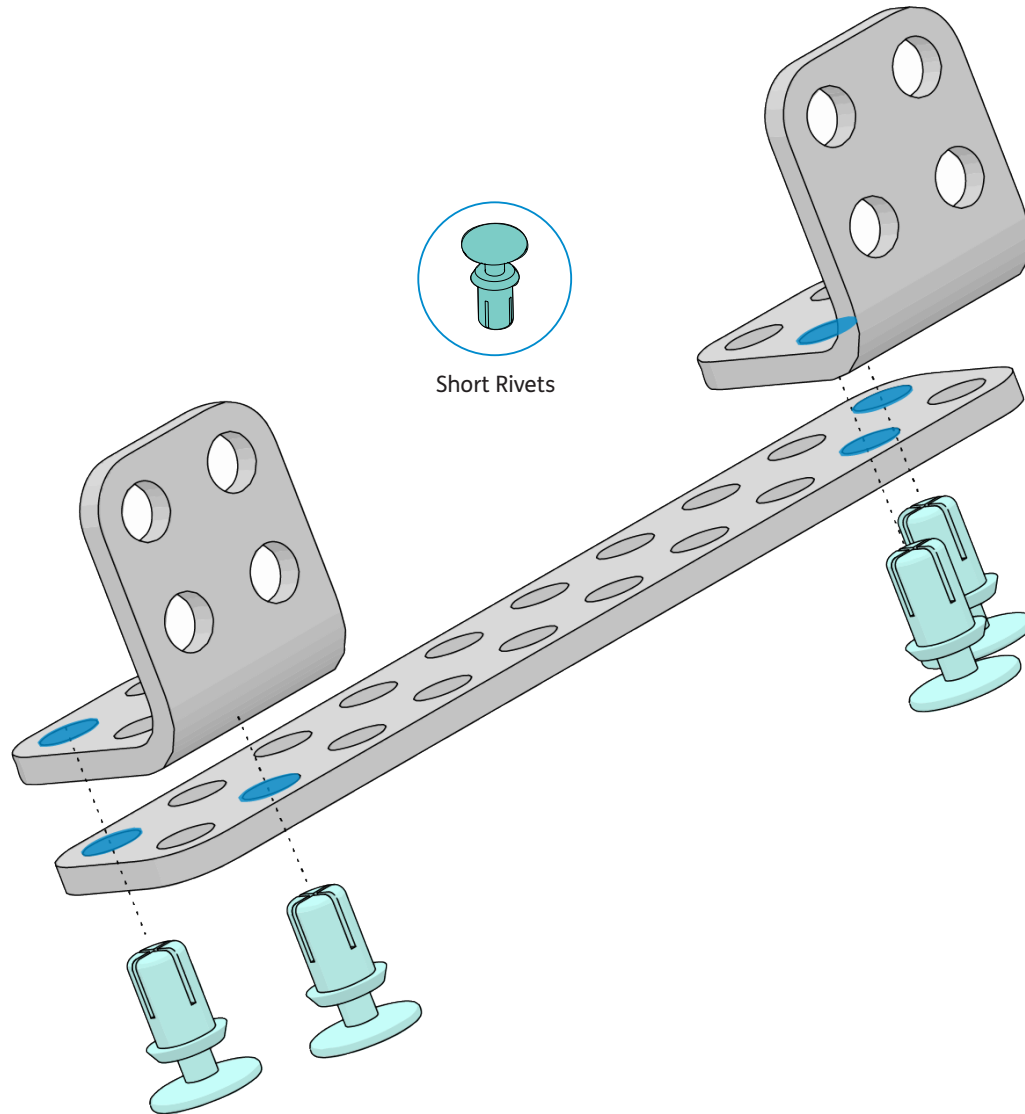


x4

Short Rivets

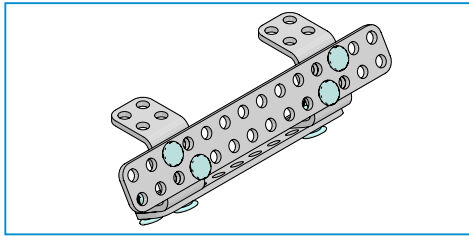


Short Rivets



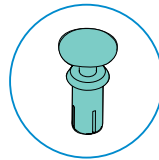
Rear bumper

Part 2



x2

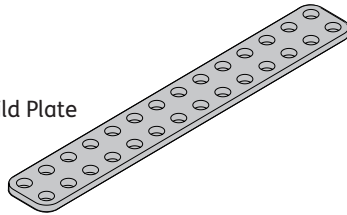
120° Brackets
(2x2)



Long Rivets

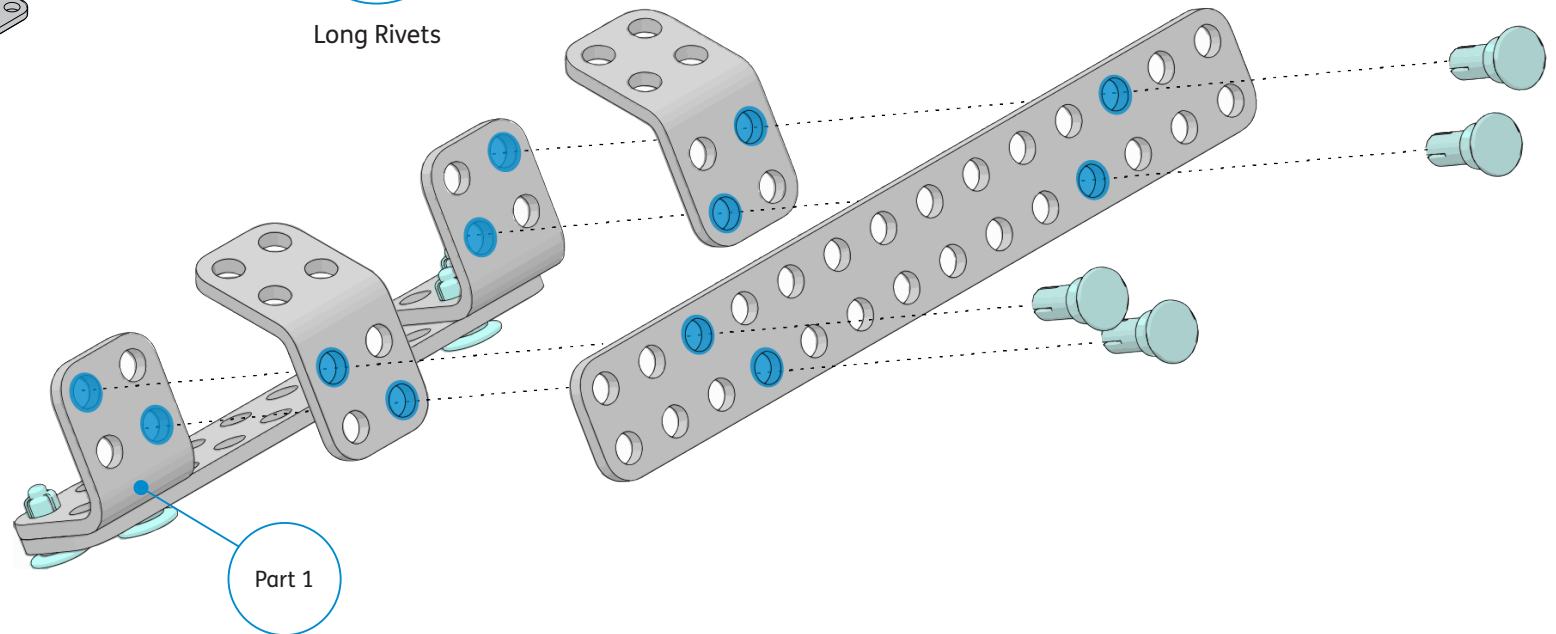
x1

2x14 Build Plate

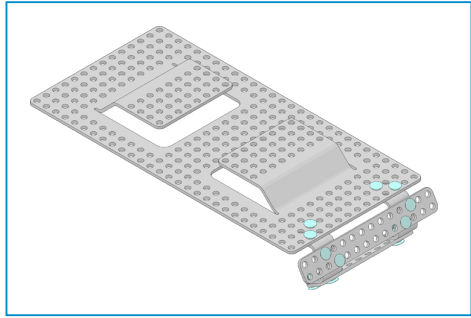


x4

Long Rivets

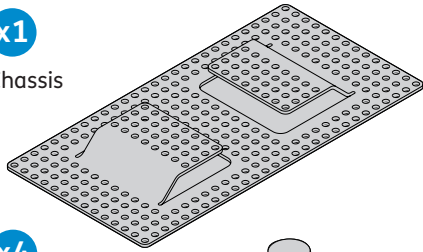


Connecting the rear bumper to the chassis



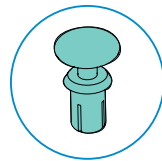
x1

Chassis

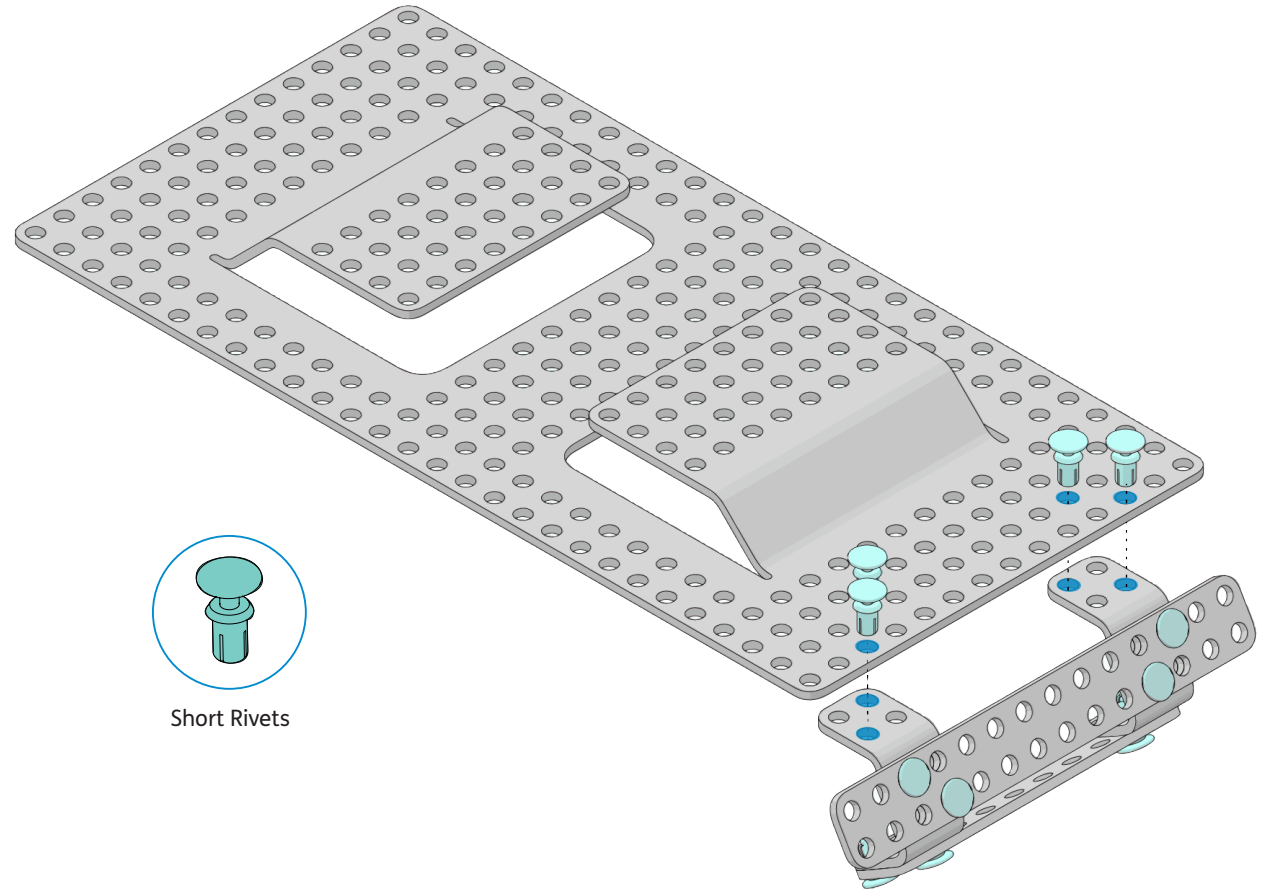


x4

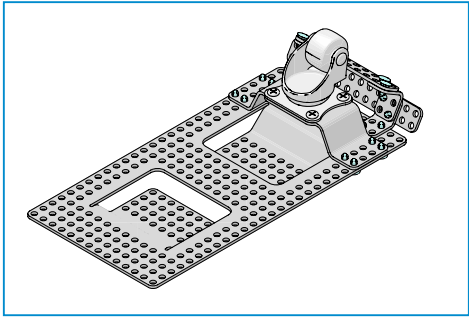
Short Rivets



Short Rivets

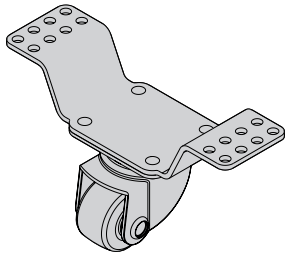


Connecting the **castor wheel** to the **chassis**



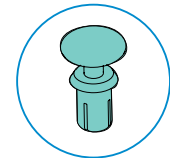
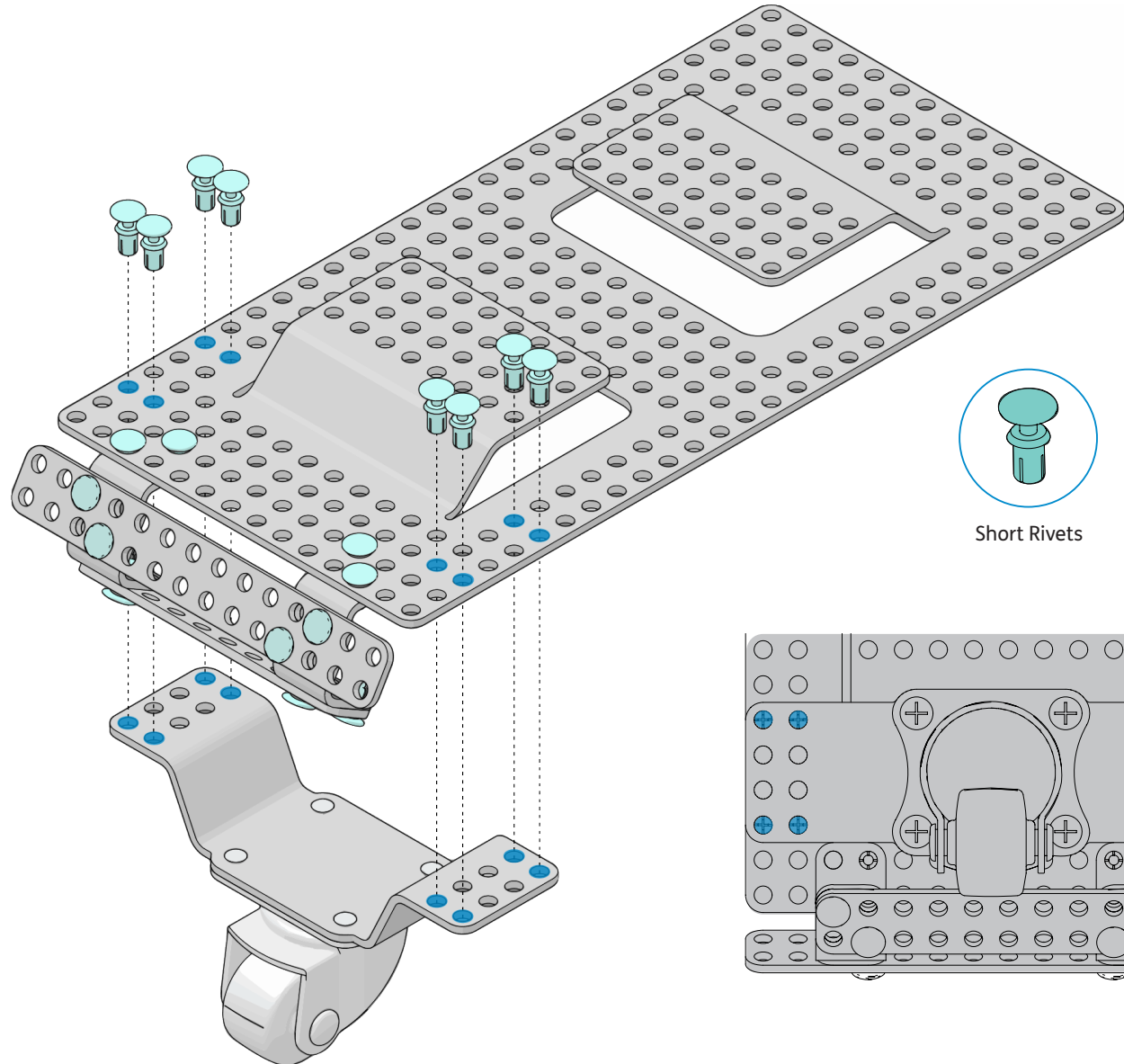
x1

Castor Wheel

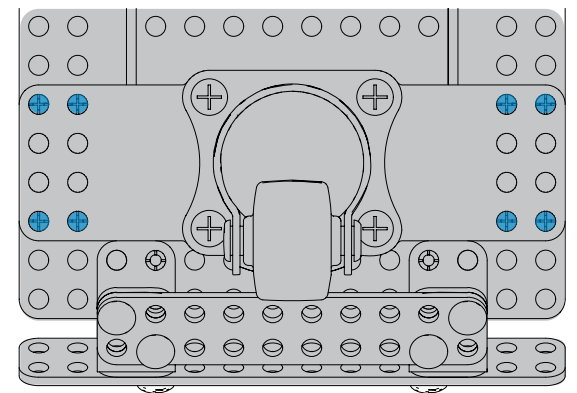


x8

Short Rivets

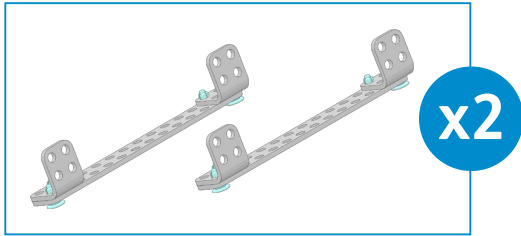


Short Rivets



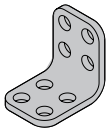
Side bumpers

Part 1



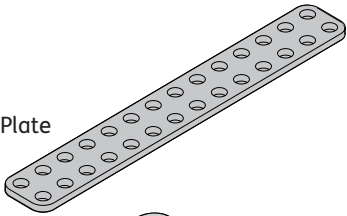
x4

90° Brackets
(2x2)



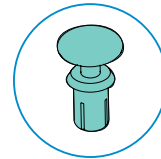
x2

2x14 Build Plate

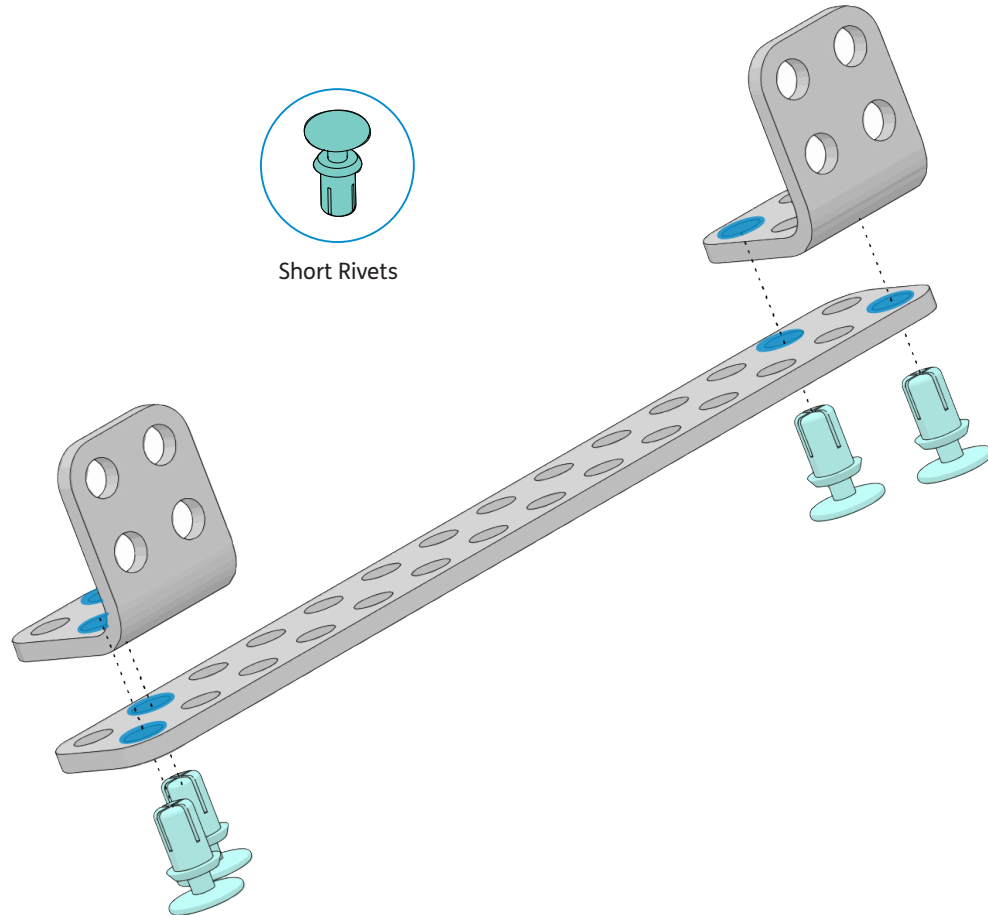


x8

Short Rivets

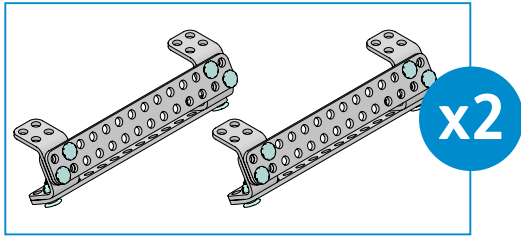


Short Rivets



Side bumpers

Part 2



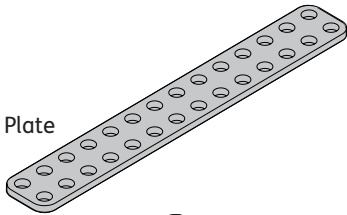
x4

120° Brackets
(2x2)



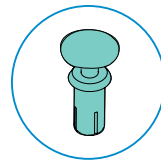
x2

2x14 Build Plate

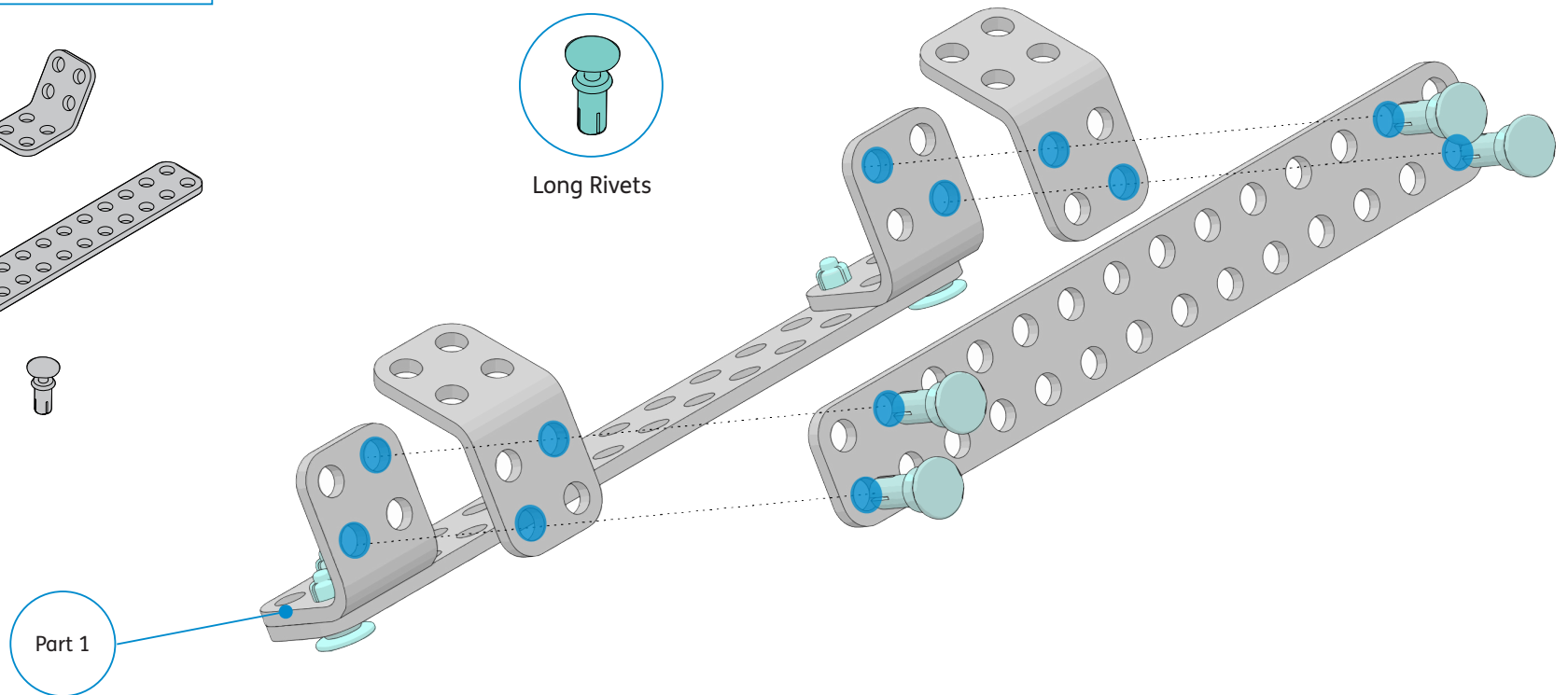


x8

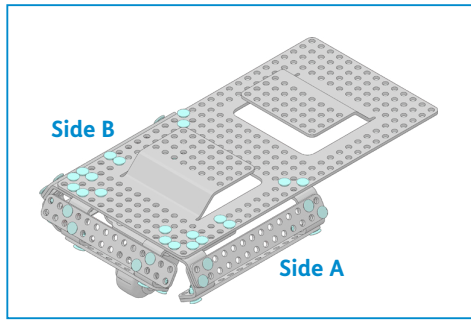
Long Rivets



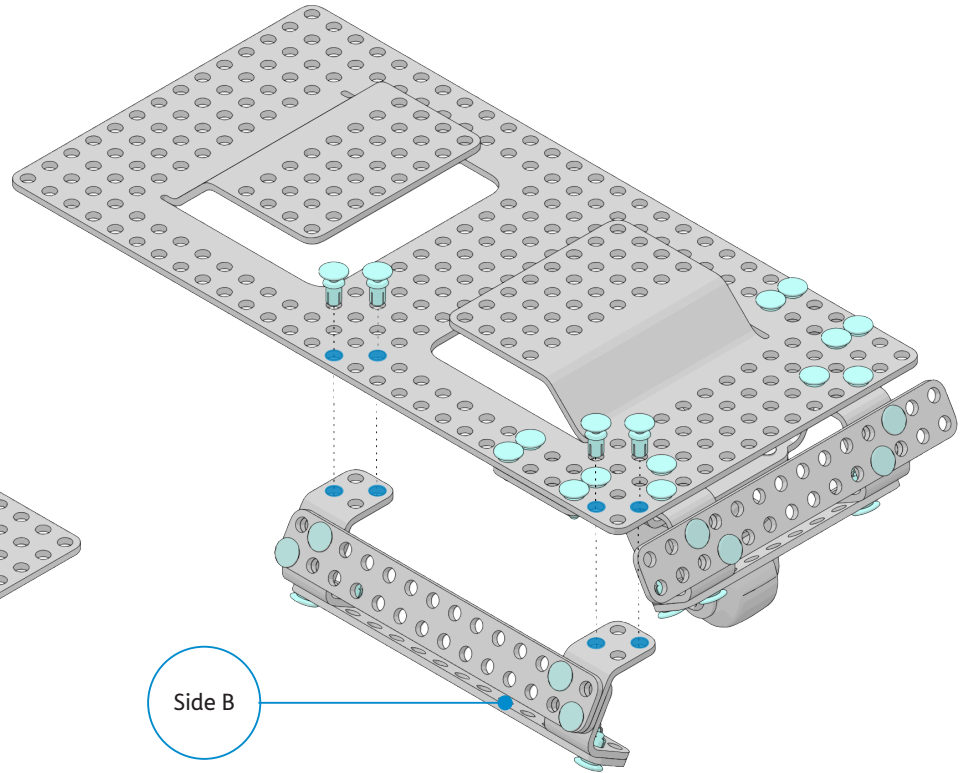
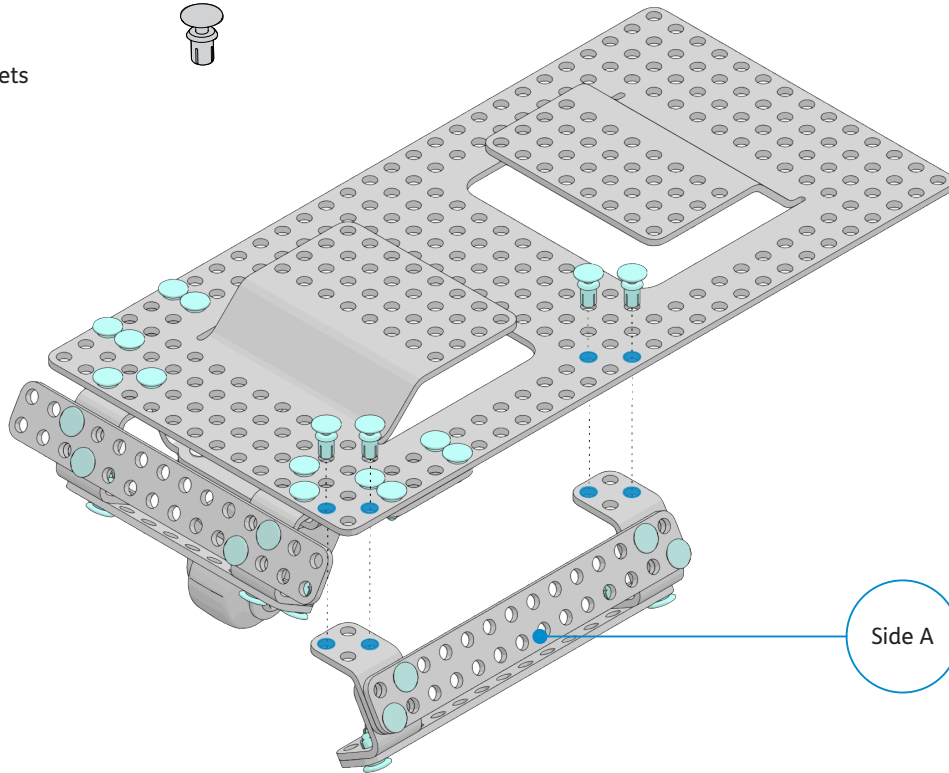
Long Rivets



Connecting the side bumpers to the chassis

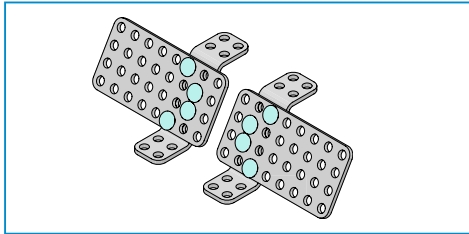


x8
Short Rivets



Front bumper

Part 1



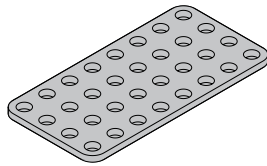
x4

120° Brackets
(2x2)



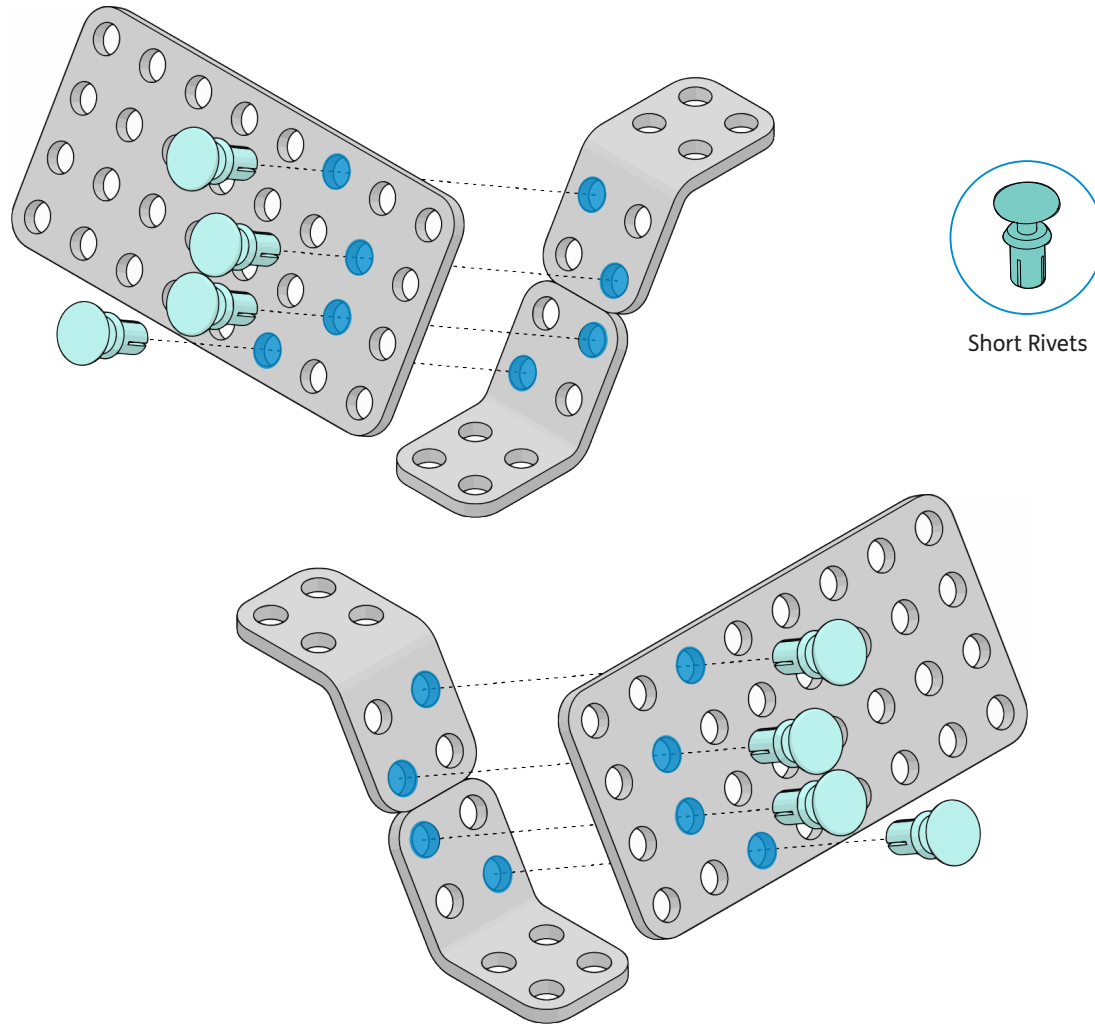
x2

4x8 Build Plate



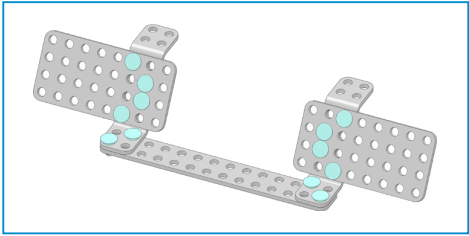
x8

Short Rivets



Front bumper

Part 2



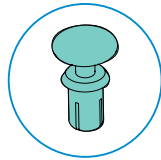
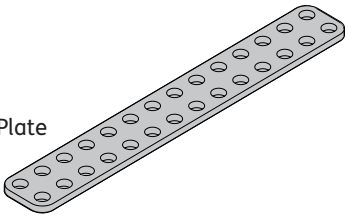
x4

Short Rivets

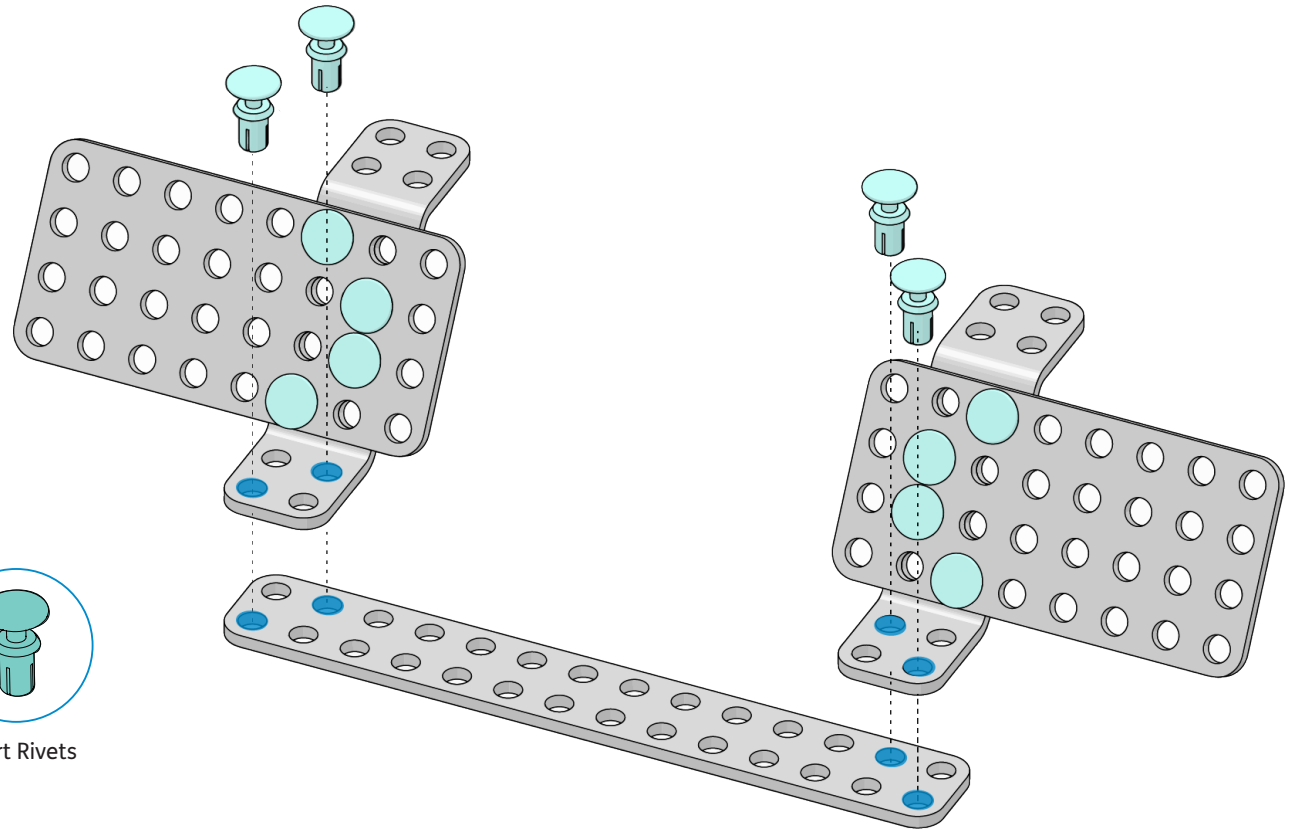


x1

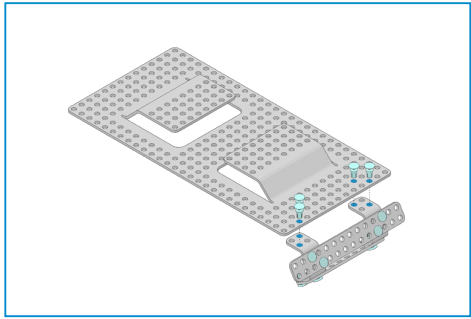
2x14 Build Plate



Short Rivets

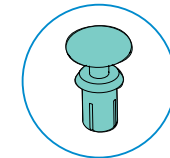
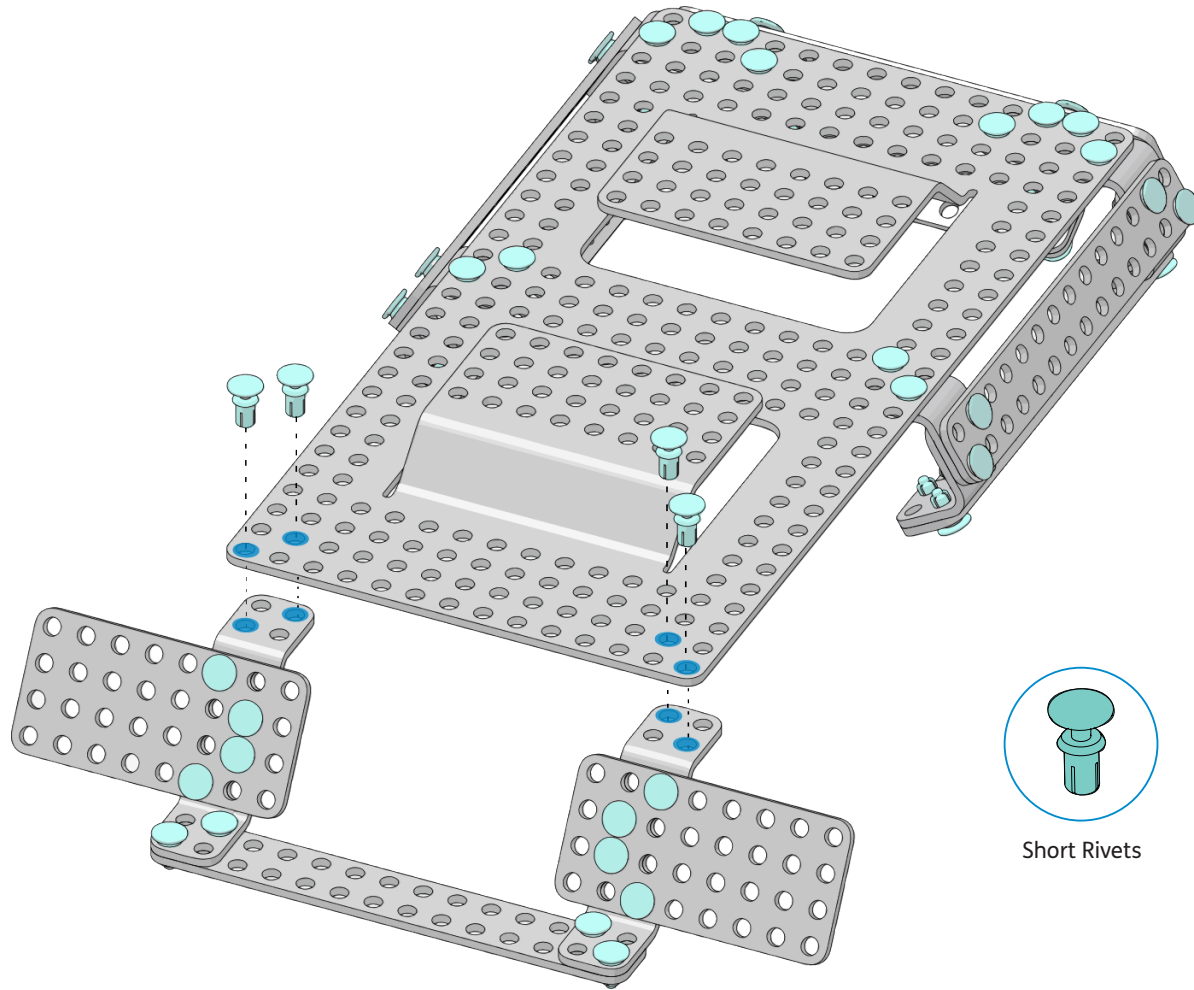


Connecting the front bumper to the chassis



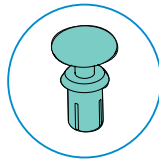
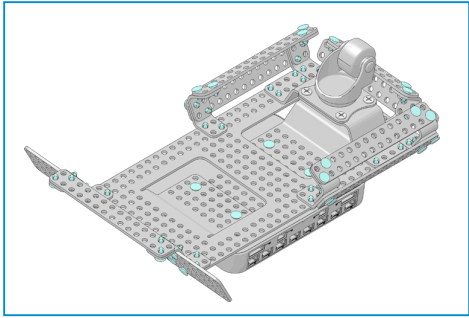
x4

Short Rivets

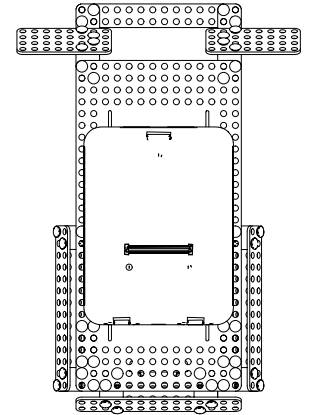
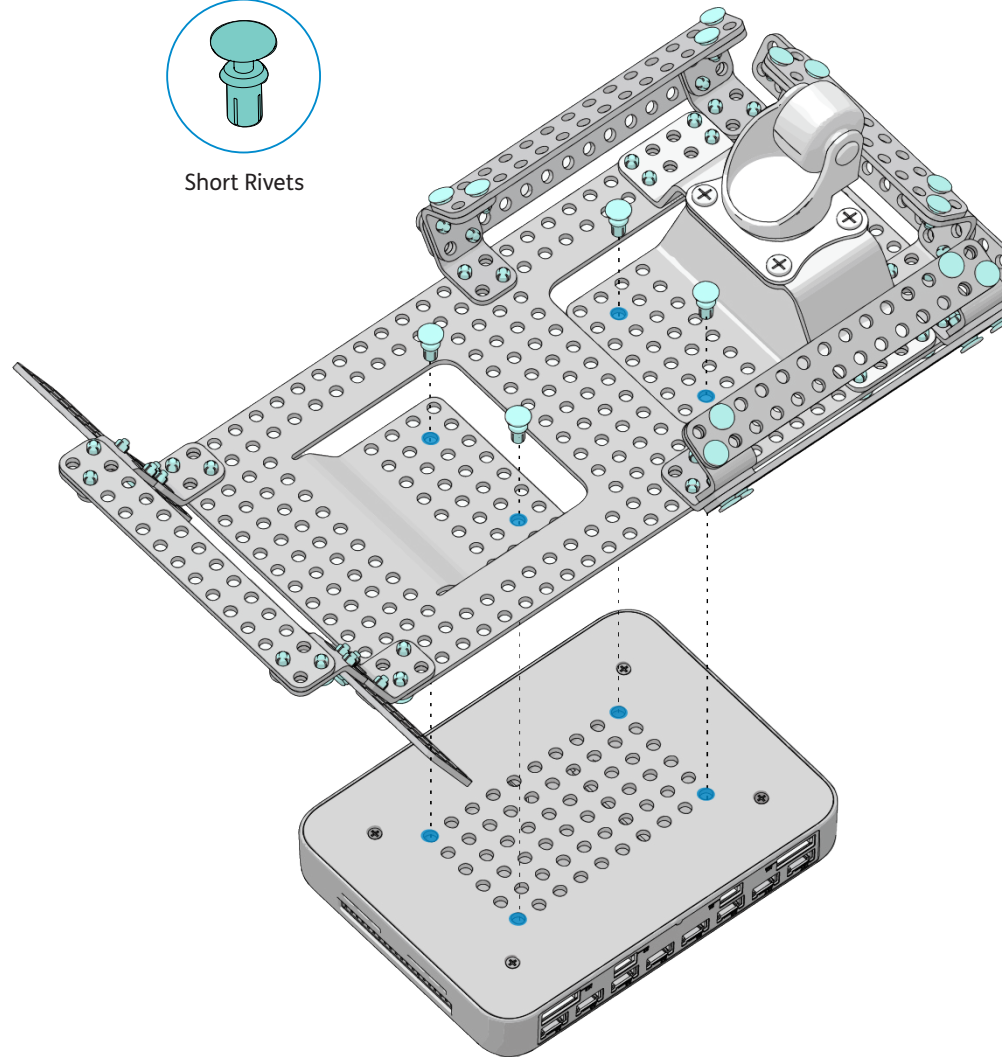


Short Rivets

Expansion Plate



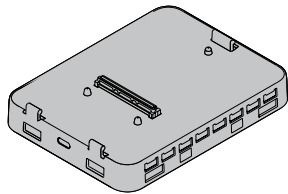
Short Rivets



Make sure the Expansion Plate is pointing in the right direction!

x1

Expansion Plate



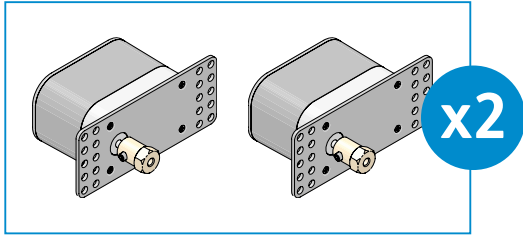
x4

Short Rivets



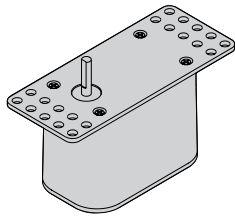
Encoder motors

Part 1



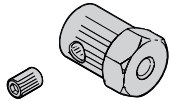
x2

Encoder Motor



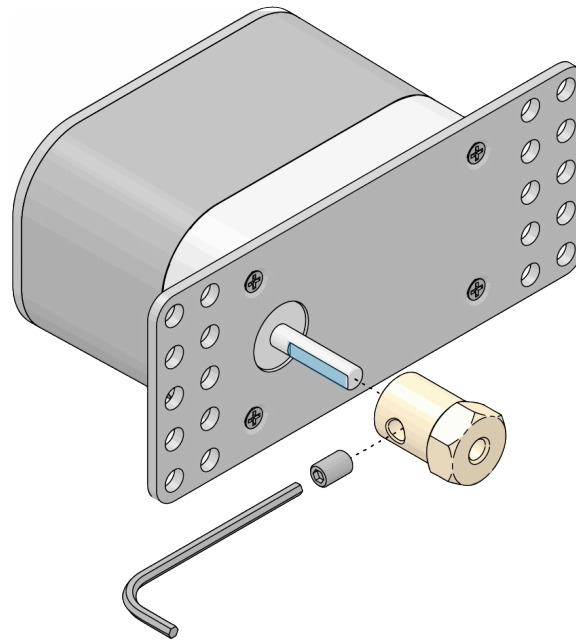
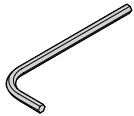
x2

Wheel Connector and Grub Screw

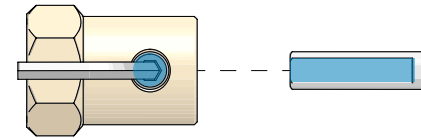


x2

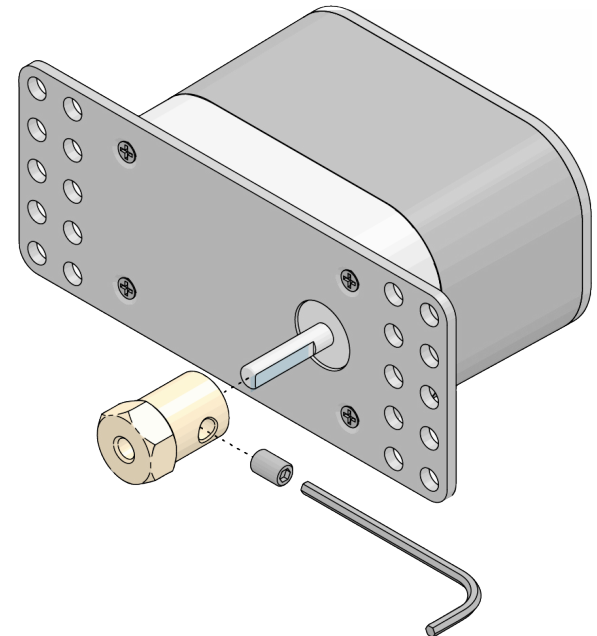
2mm Hex Key



Make sure you align the flat edge of the motor correctly to the Wheel Connector

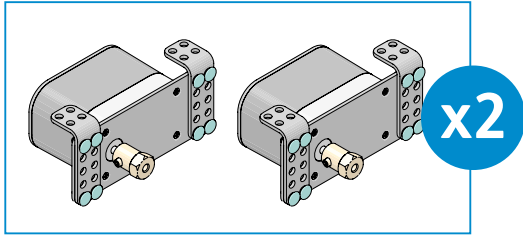


Use the 2mm Hex Key to tighten



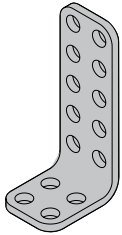
Encoder motors

Part 2



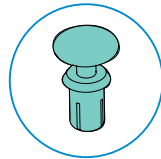
x4

90° Build Plates
(2x5)

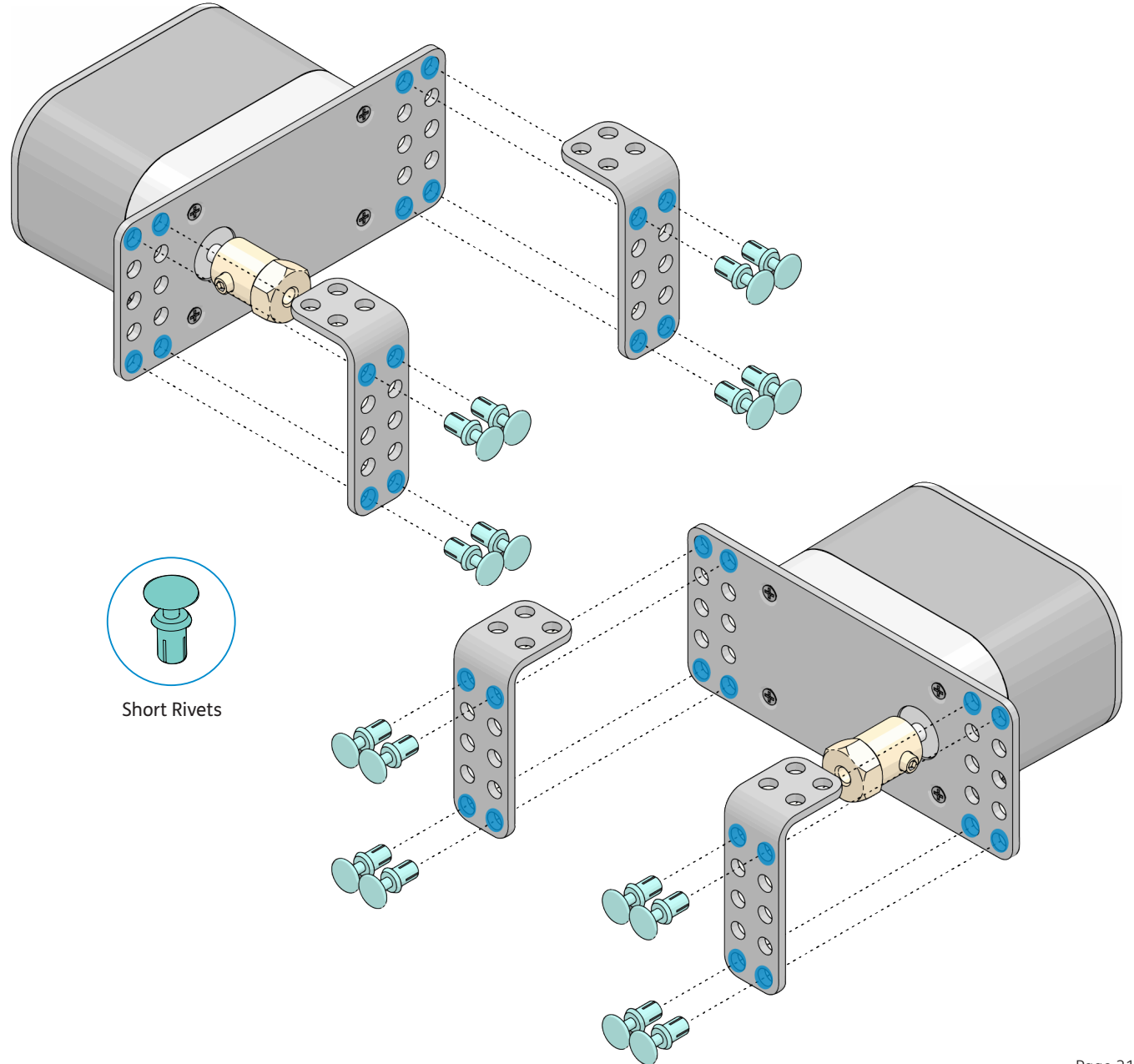


x16

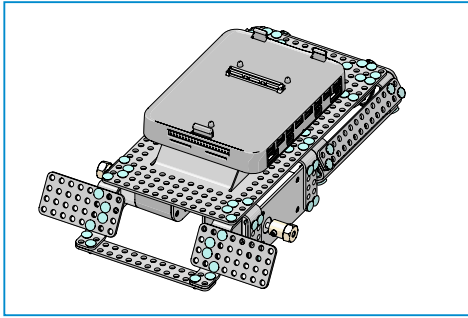
Short Rivets



Short Rivets

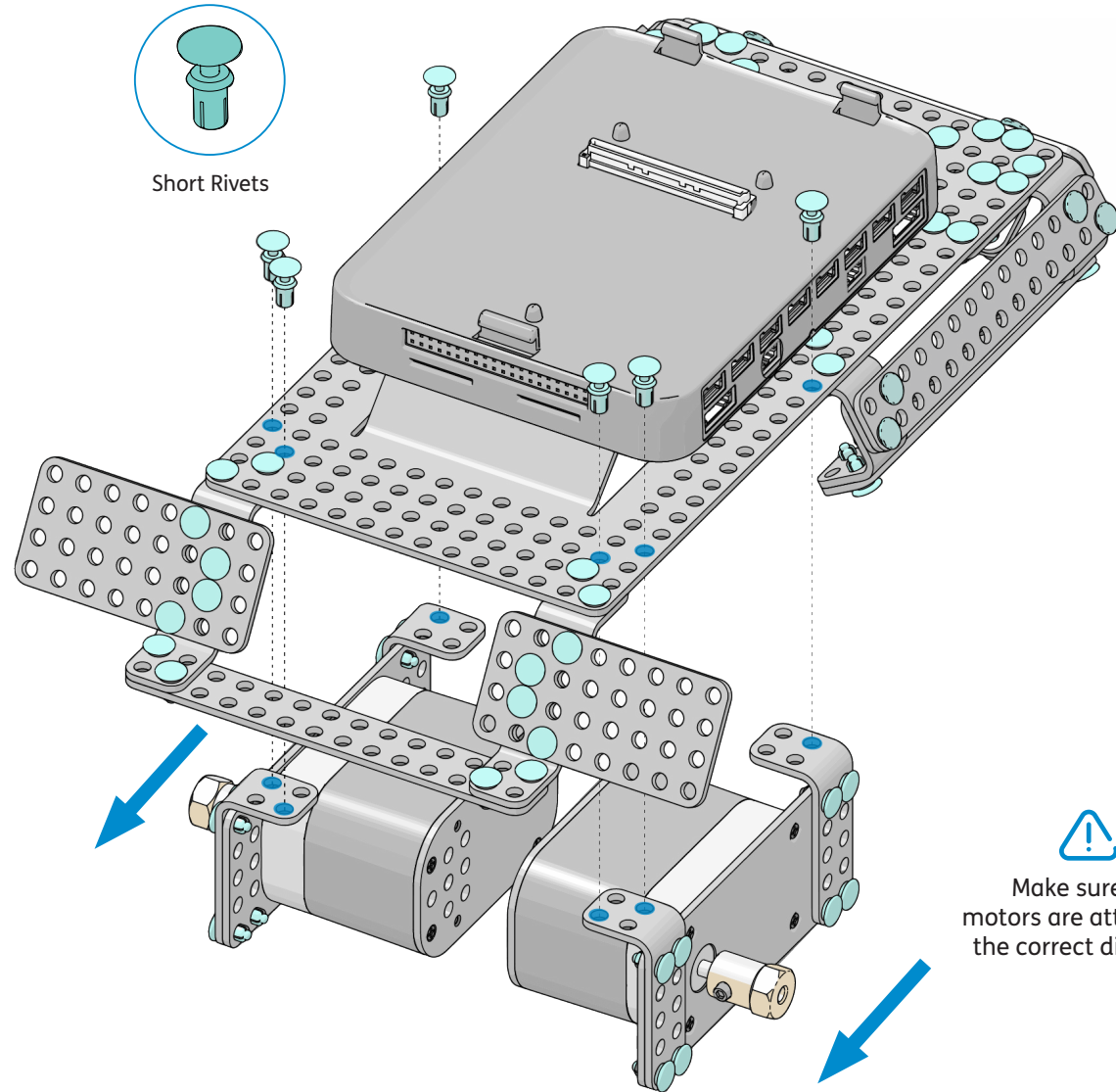


Motor assembly



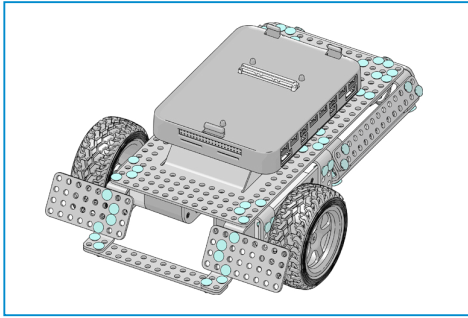
x8

Short Rivets



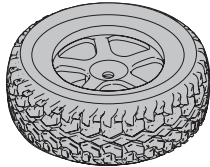
Make sure the motors are attached in the correct direction!

Wheels



x2

Wheels



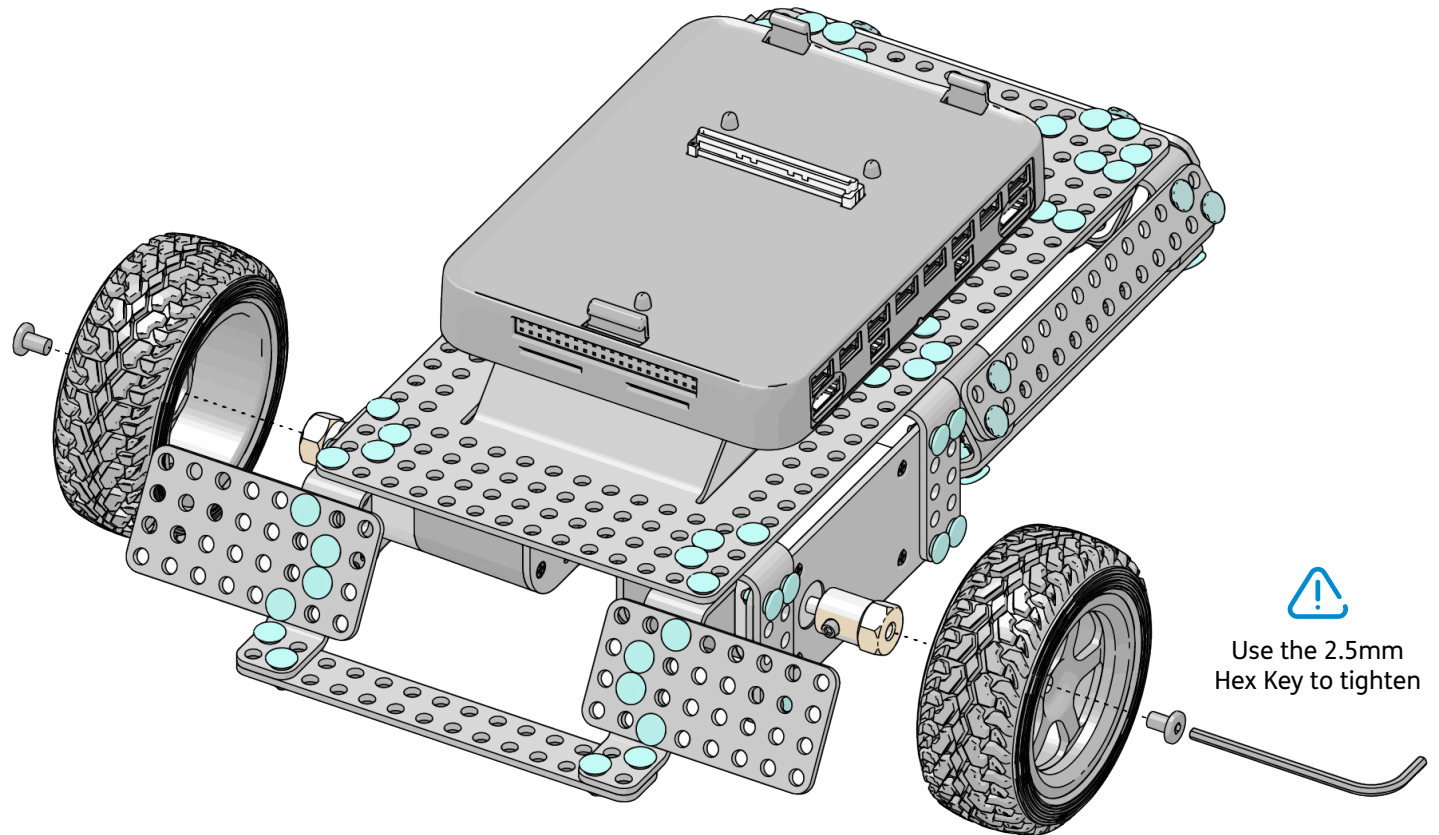
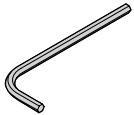
x2

M4 Wheel Screws



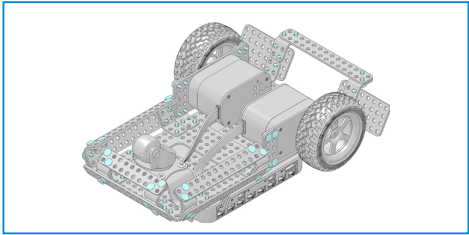
x1

2.5mm Hex Key



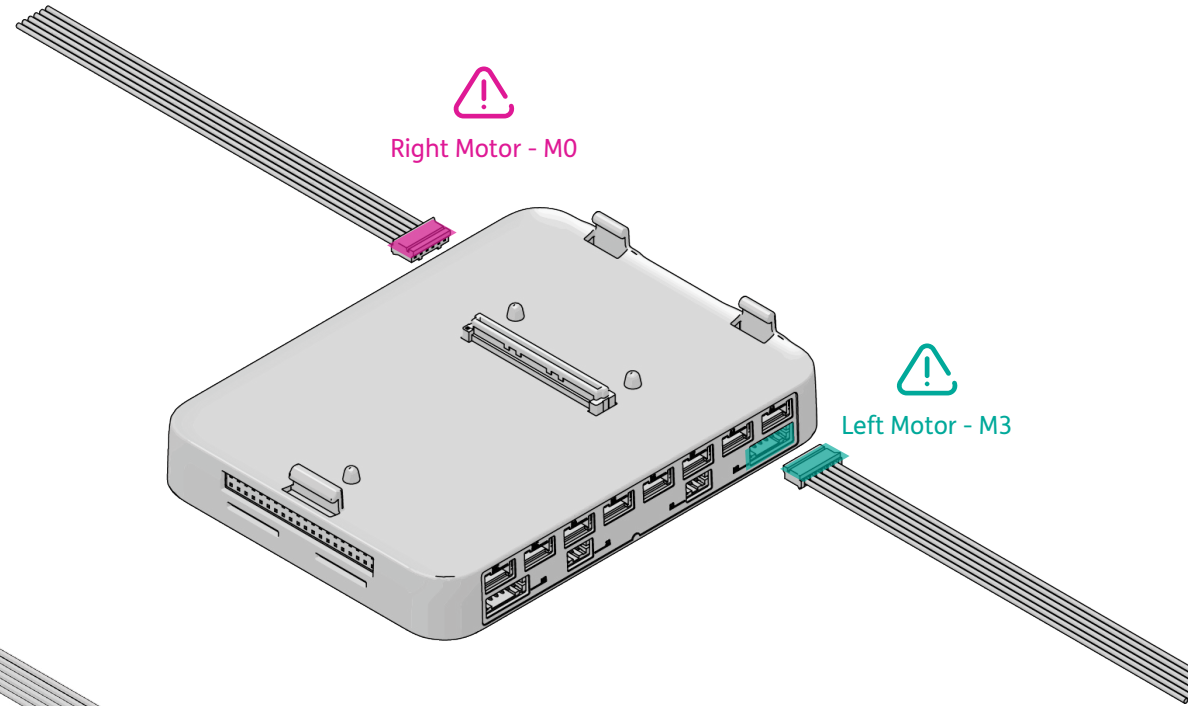
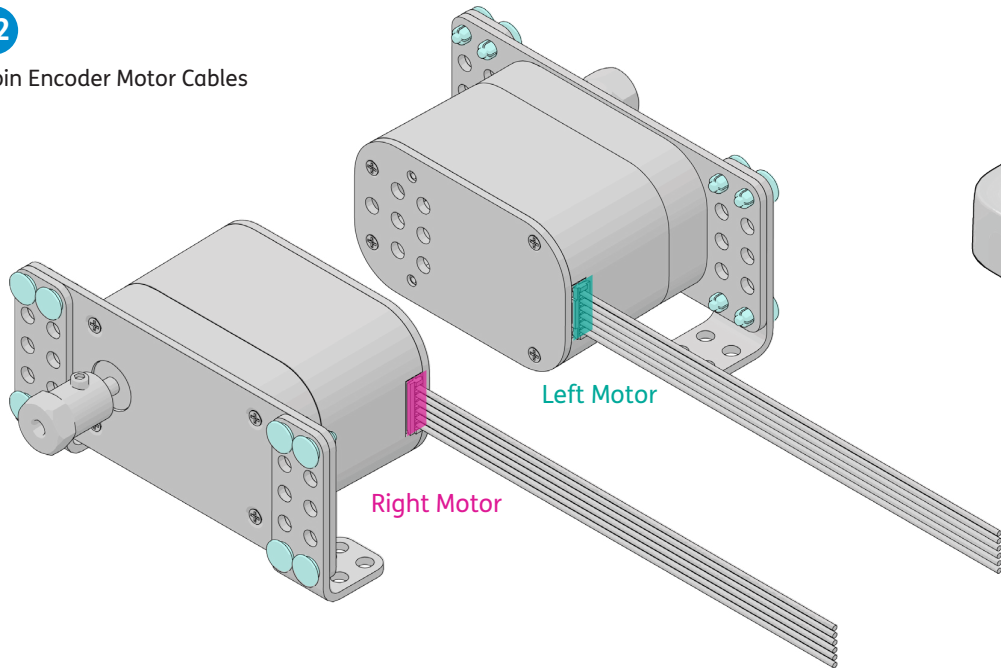
Use the 2.5mm
Hex Key to tighten

Connecting the Encoder Motors



x2

6-pin Encoder Motor Cables



pi-top

Raspberry Pi made simple,
robust and modular.

pi-top.com

Having trouble? Check out:

pi-top.com/support or forum.pi-top.com