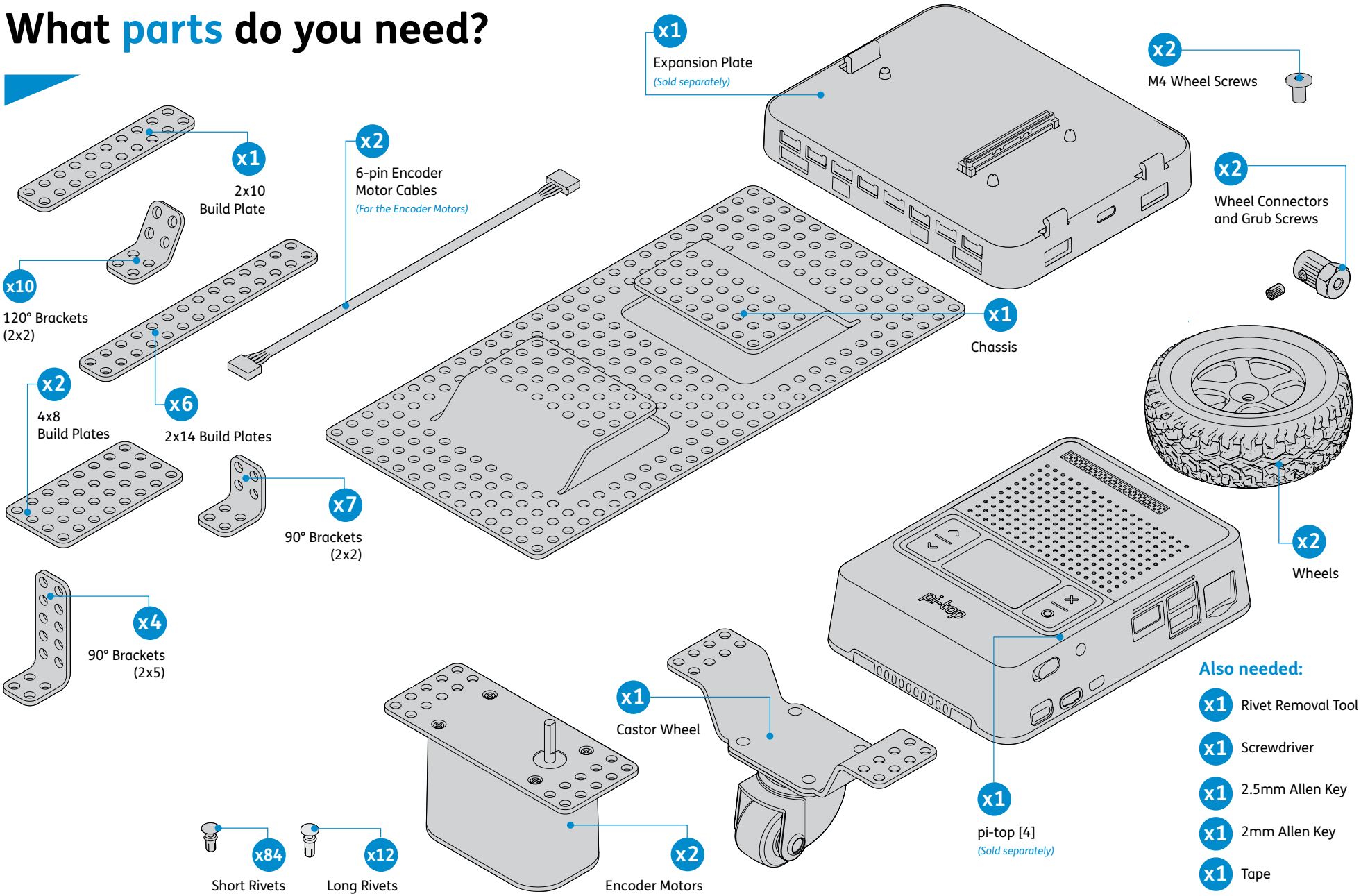
What parts do you need?

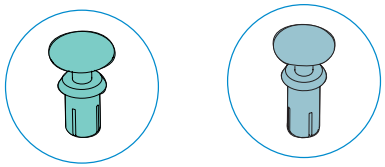


Also needed:

- x1 Rivet Removal Tool
- x1 Screwdriver
- x1 2.5mm Allen Key
- x1 2mm Allen Key
- x1 Tape

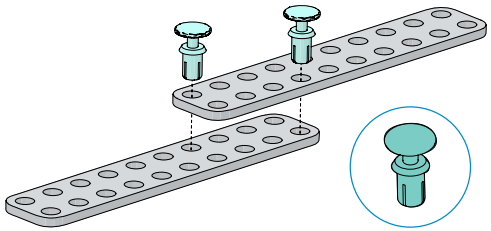
How to use the rivets

The Robotics Kit contains
two types of rivet:

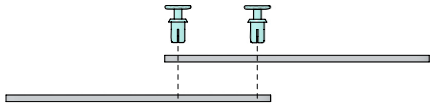


Short Rivets Long Rivets

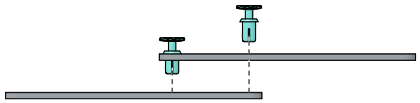
Connecting 2 Build Plates



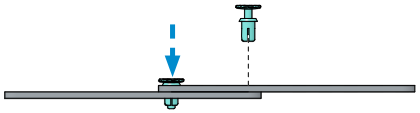
1.



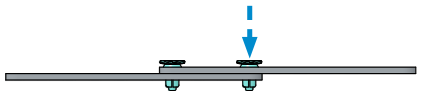
2.



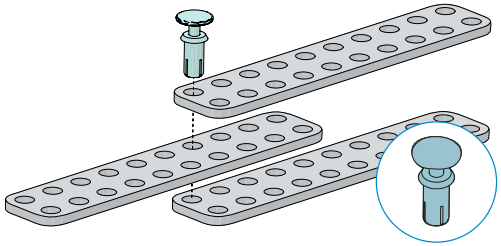
3.



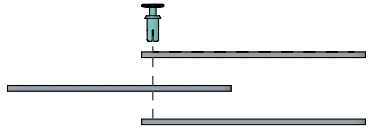
4.



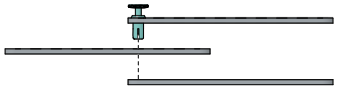
Connecting 3 Build Plates



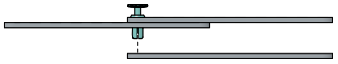
1.



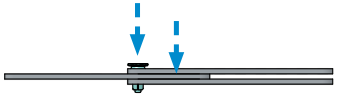
2.



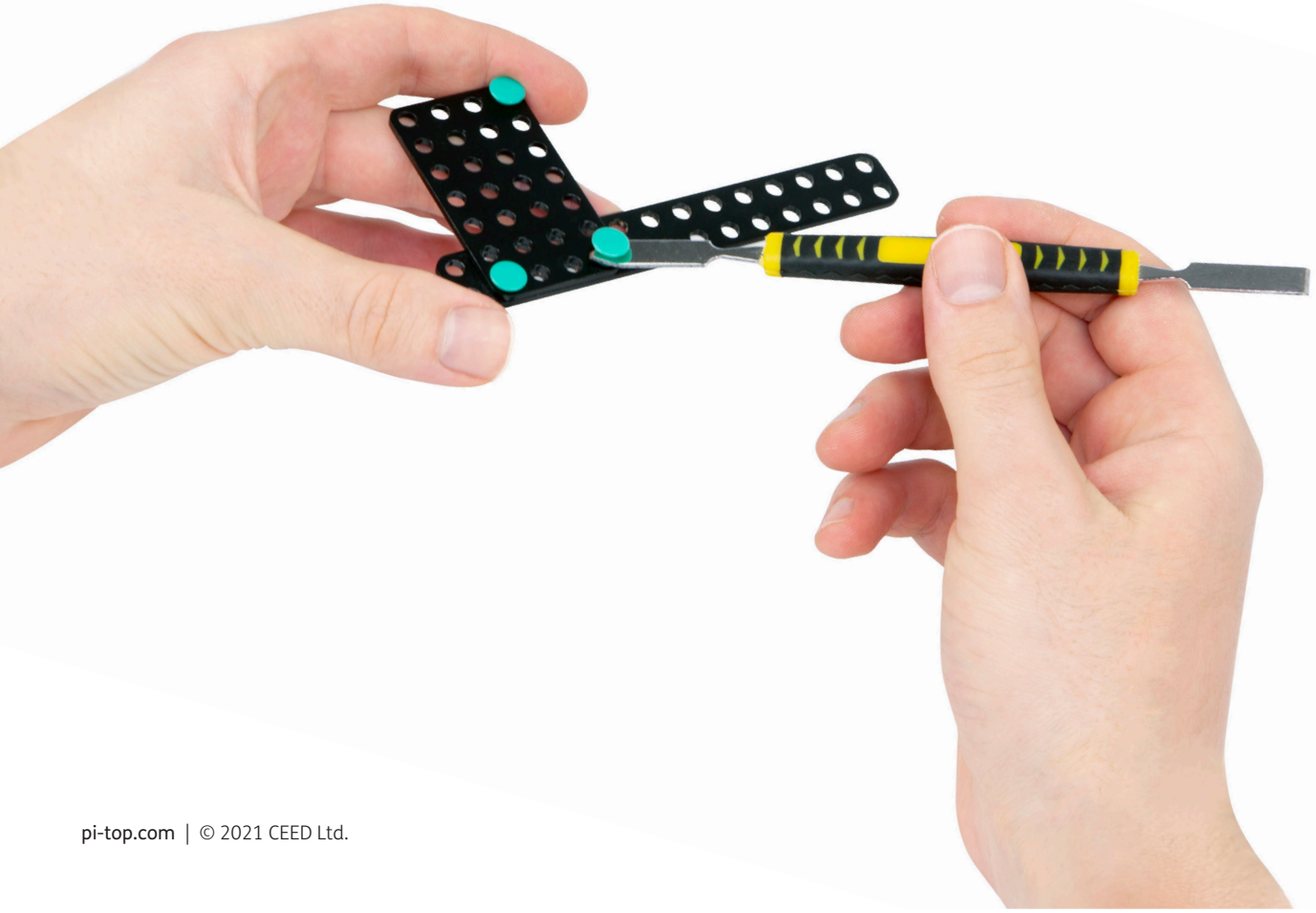
3.



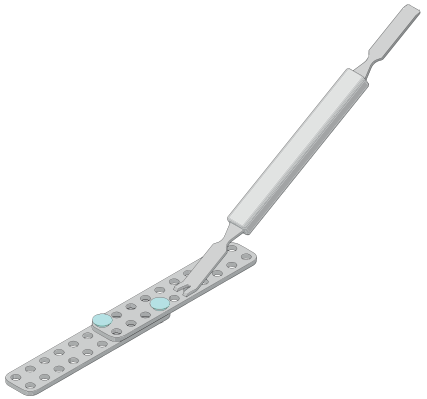
4.



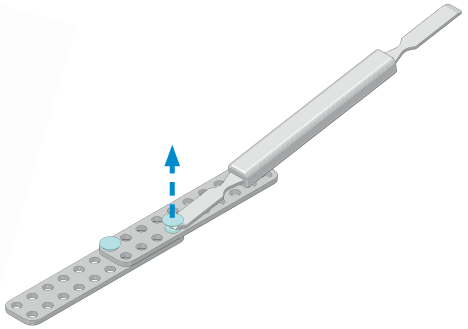
Using the Rivet Removal Tool



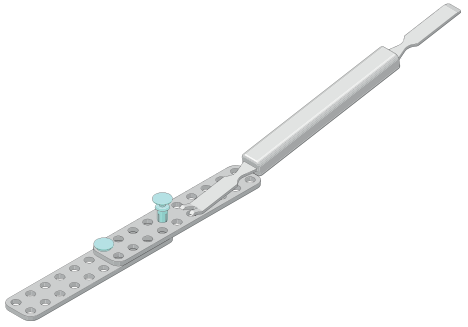
1.



2.

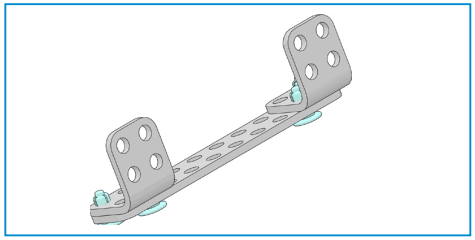


3.



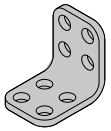
Rear bumper

Part 1



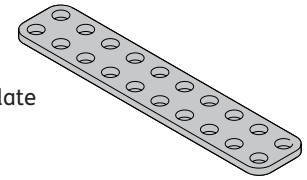
x2

90° Brackets
(2x2)



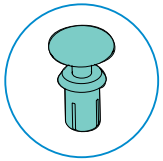
x1

10x2 Build Plate



x4

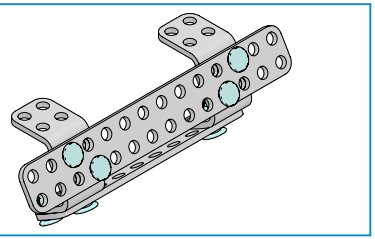
Short Rivets



Short Rivets

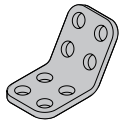
Rear bumper

Part 2



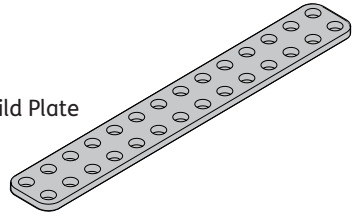
x2

120° Brackets
(2x2)



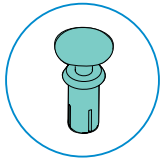
x1

2x14 Build Plate

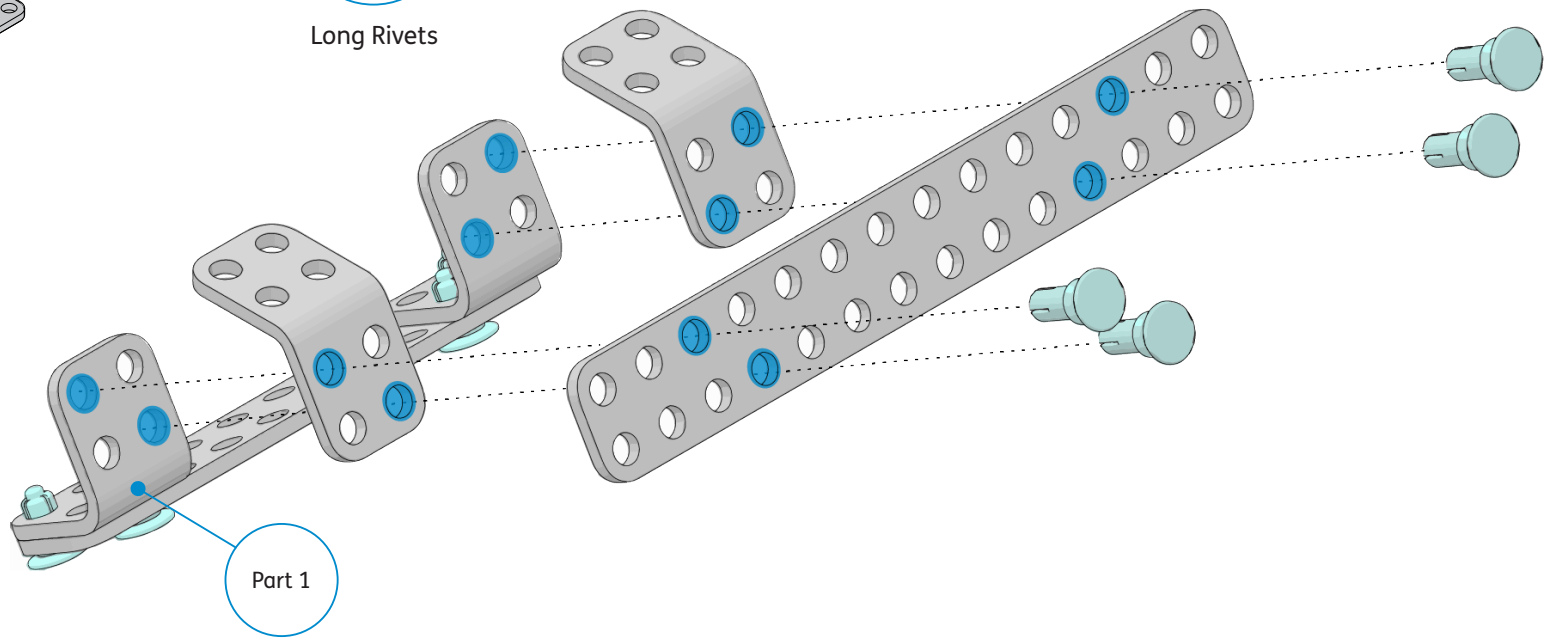


x4

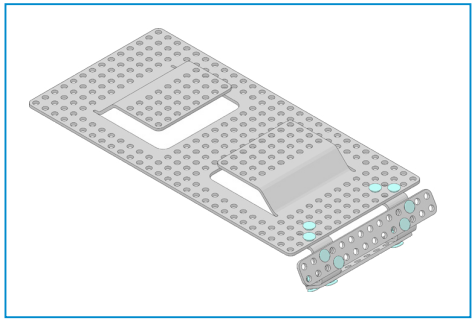
Long Rivets



Long Rivets

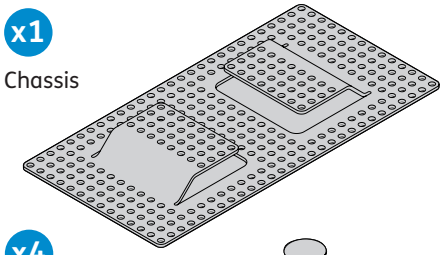


Connecting the rear bumper to the chassis



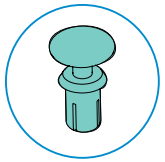
x1

Chassis



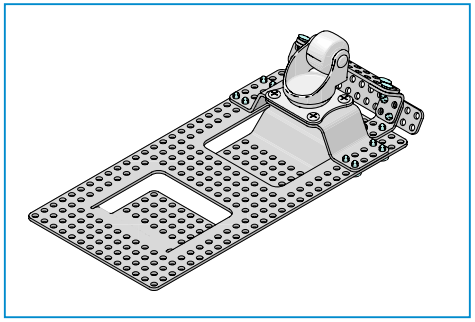
x4

Short Rivets

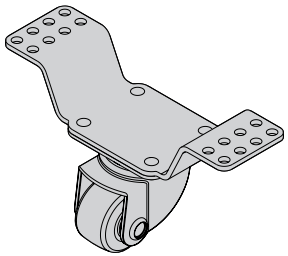


Short Rivets

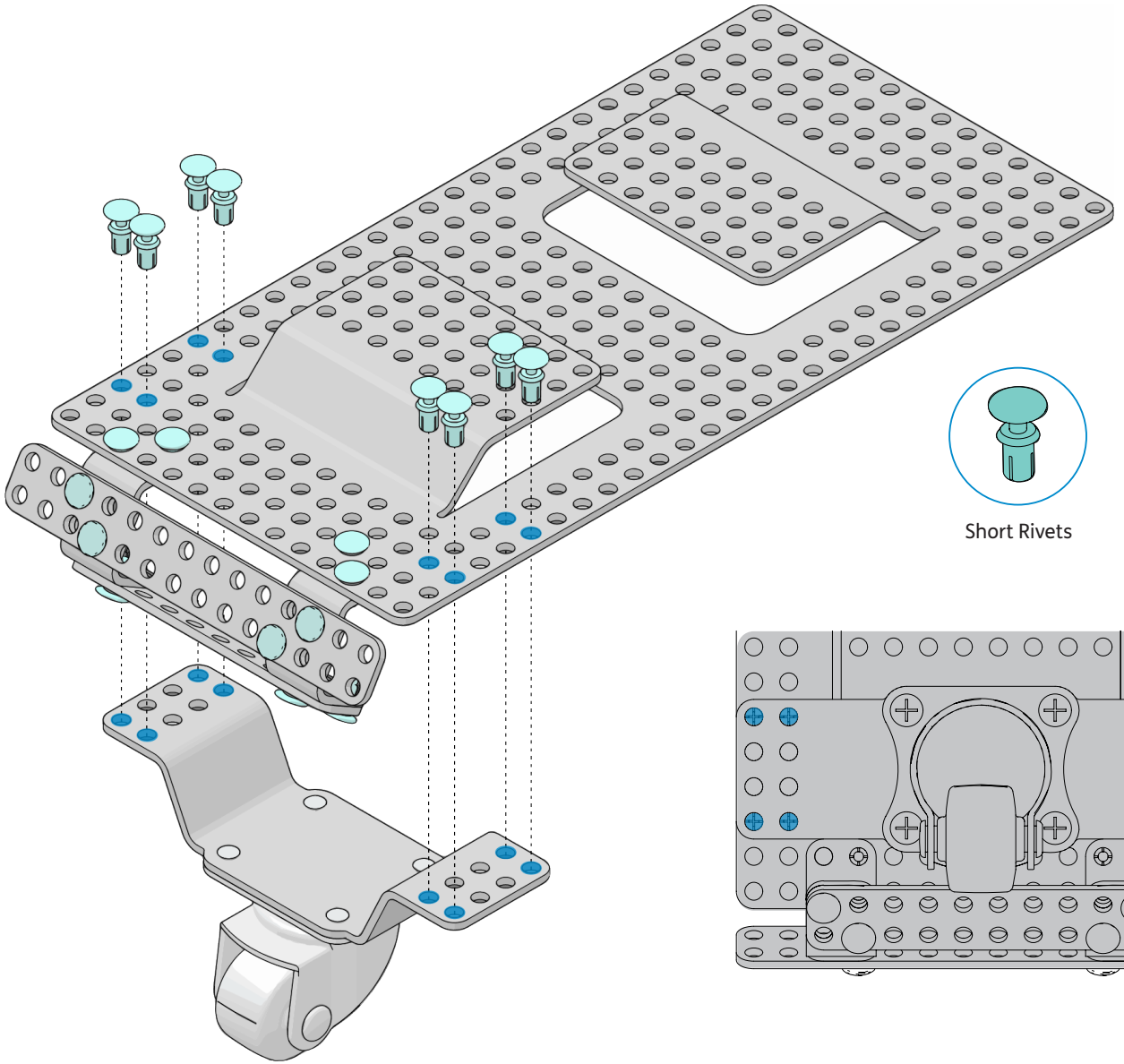
Connecting the castor wheel to the chassis



x1
Castor Wheel



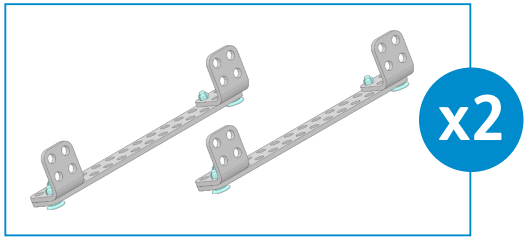
x8
Short Rivets



Short Rivets

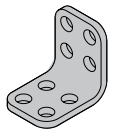
Side bumpers

Part 1



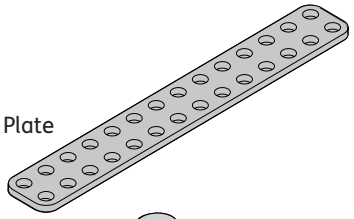
x4

90° Brackets
(2x2)



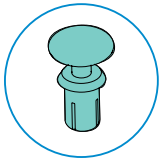
x2

2x14 Build Plate



x8

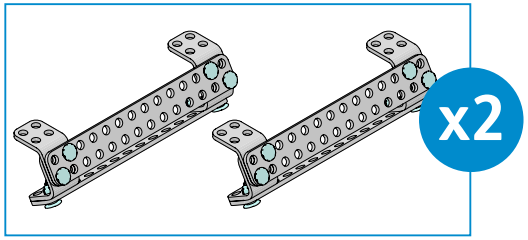
Short Rivets



Short Rivets

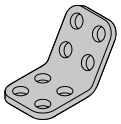
Side bumpers

Part 2



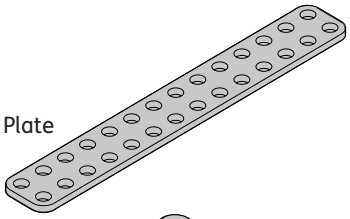
x4

120° Brackets
(2x2)



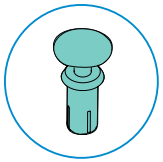
x2

2x14 Build Plate



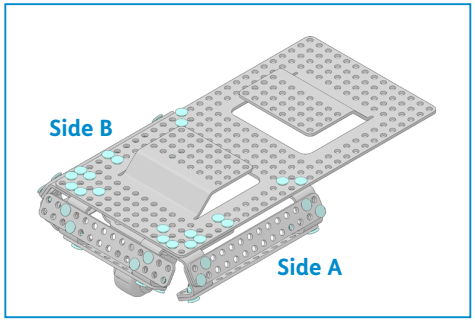
x8

Long Rivets

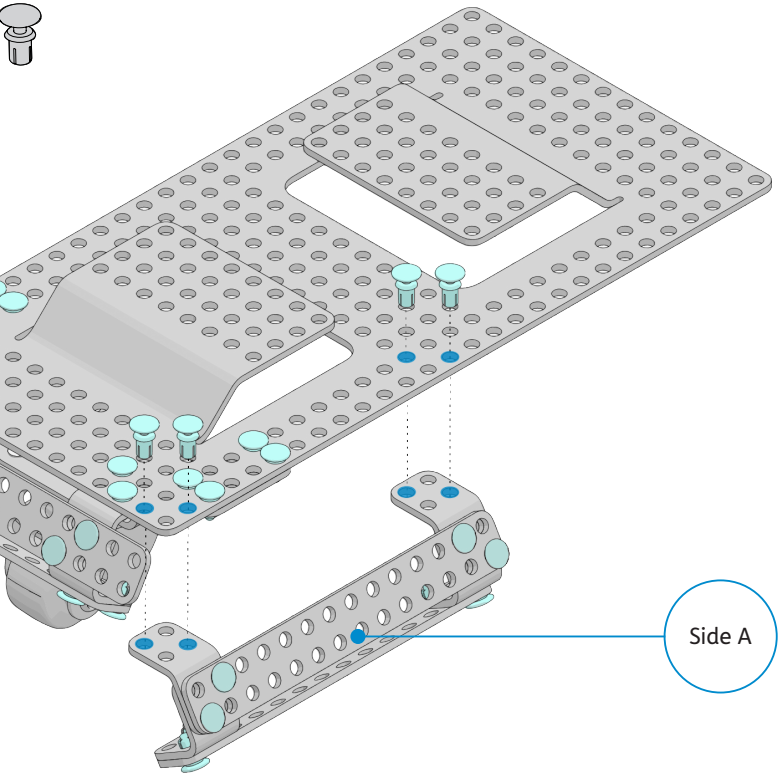


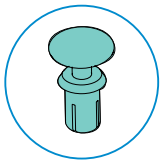
Long Rivets

Connecting the side bumpers to the chassis

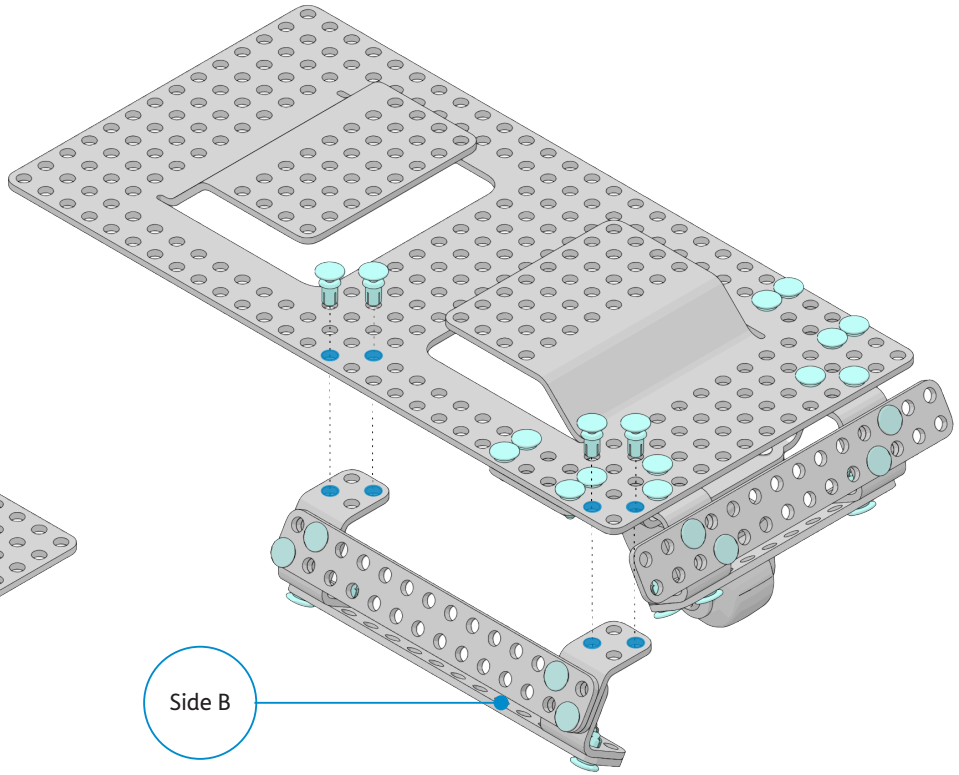


x8
Short Rivets



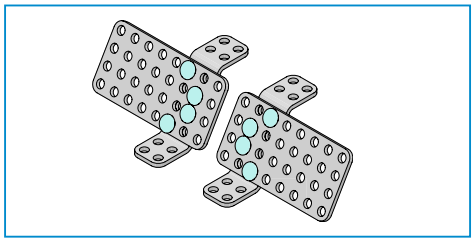


Short Rivets



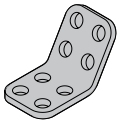
Front bumper

Part 1



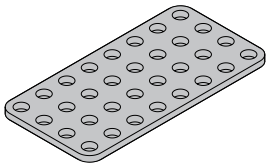
x4

120° Brackets (2x2)



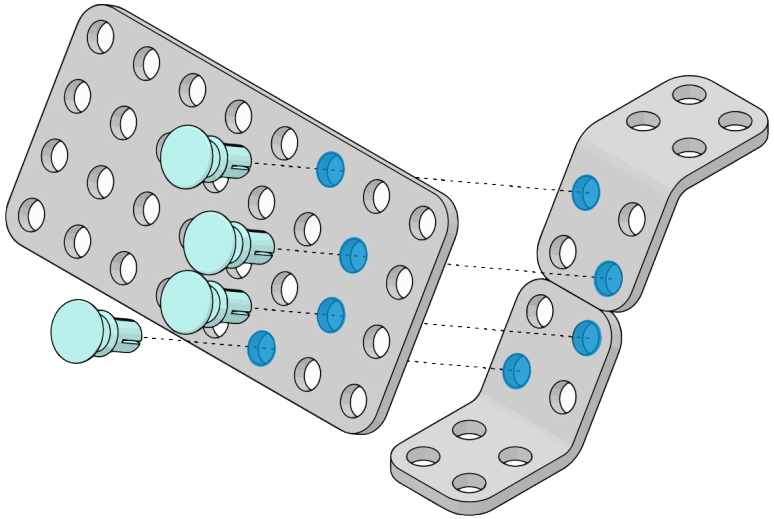
x2

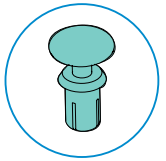
4x8 Build Plate



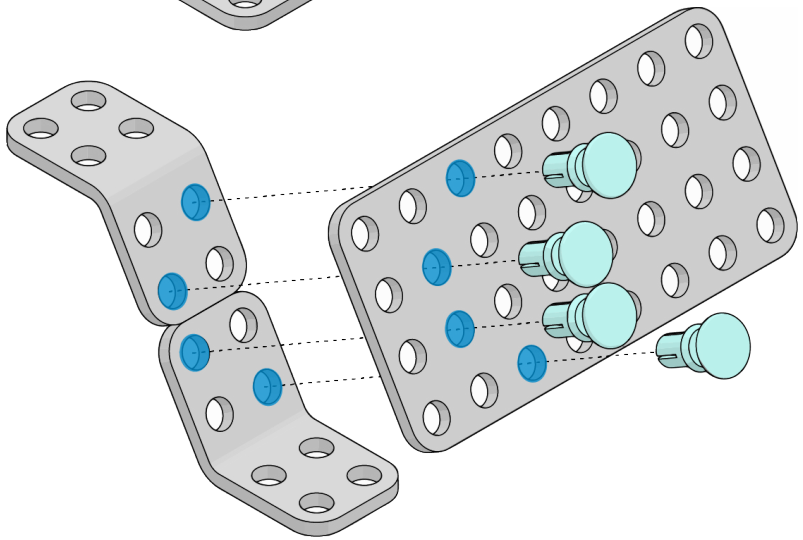
x8

Short Rivets



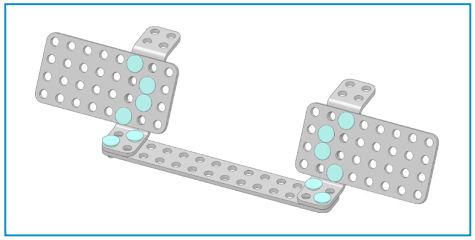


Short Rivets



Front bumper

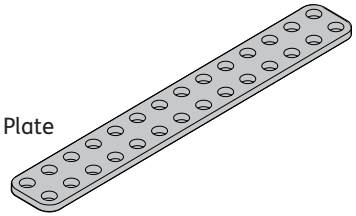
Part 2



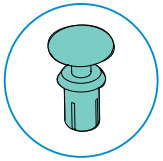
x4

Short Rivets

x1

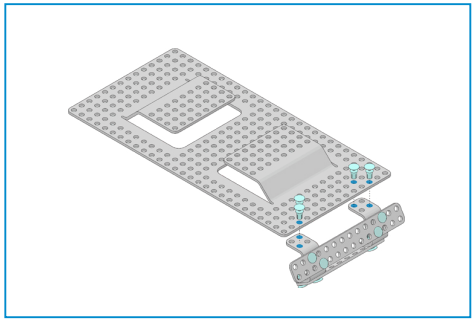


2x14 Build Plate



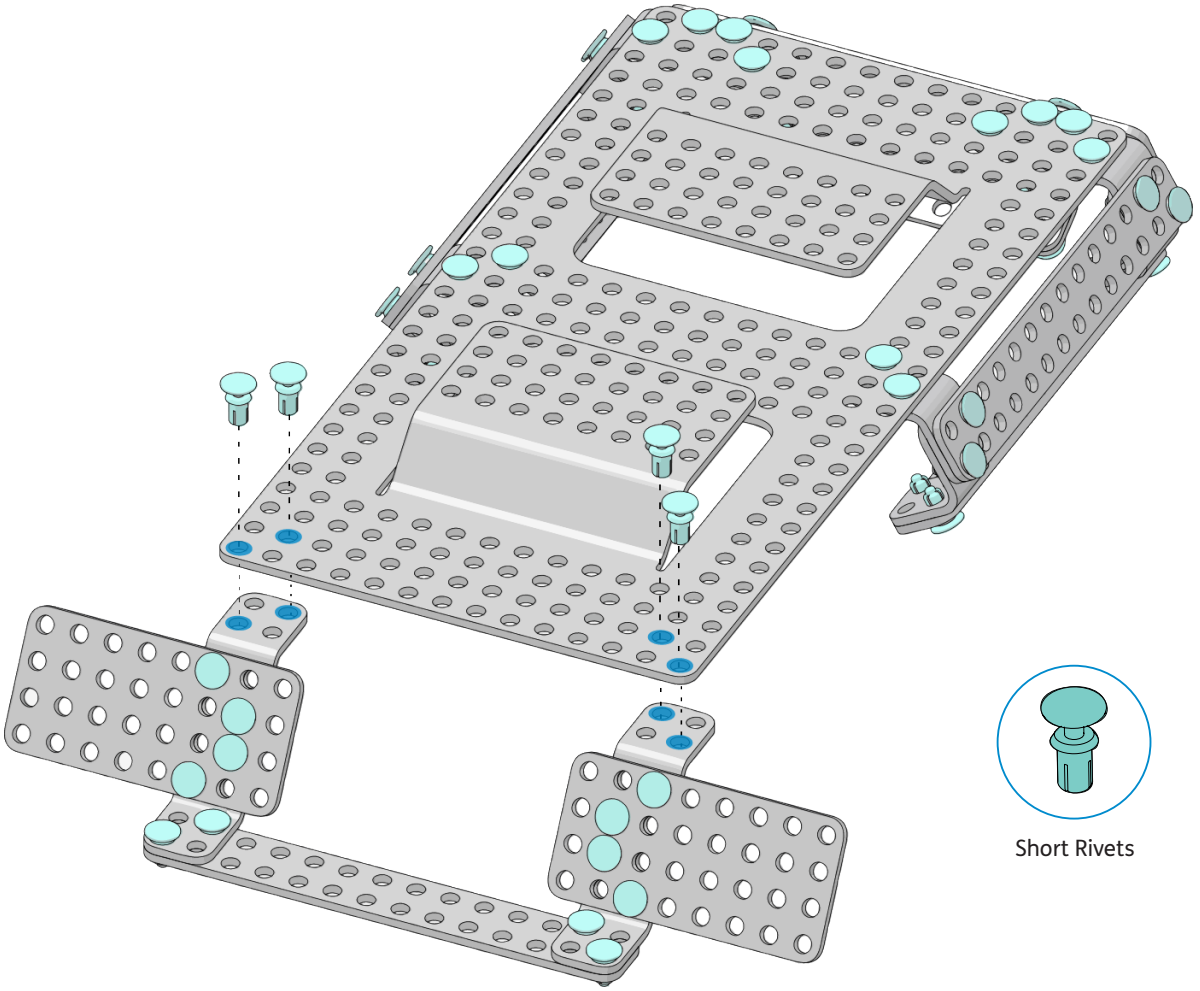
Short Rivets

Connecting the front bumper to the chassis



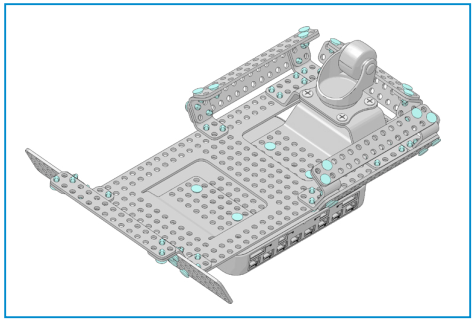
x4

Short Rivets



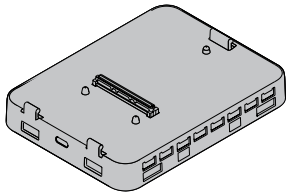
Short Rivets

Expansion Plate



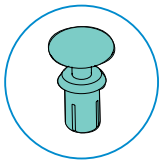
x1

Expansion Plate

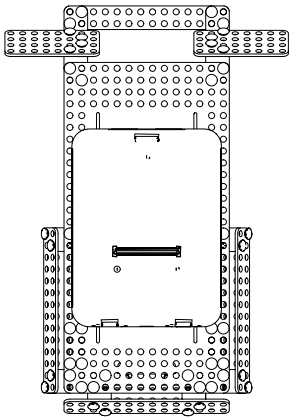


x4

Short Rivets



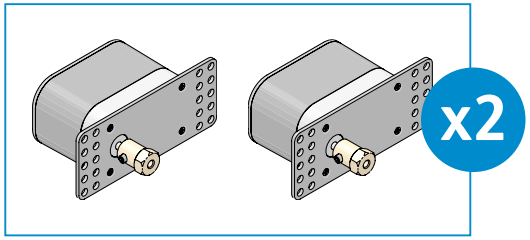
Short Rivets



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

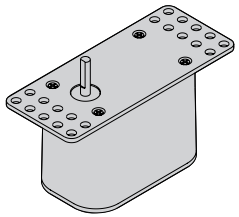
Encoder motors

Part 1



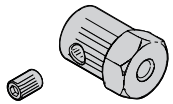
x2

Encoder Motor



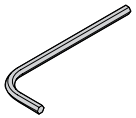
x2

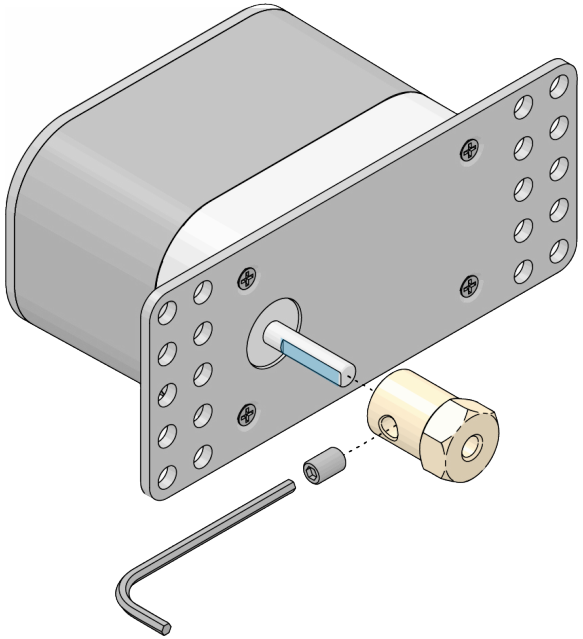
Wheel Connector and Grub Screw



x2

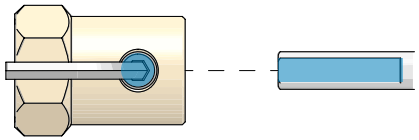
2mm Hex Key

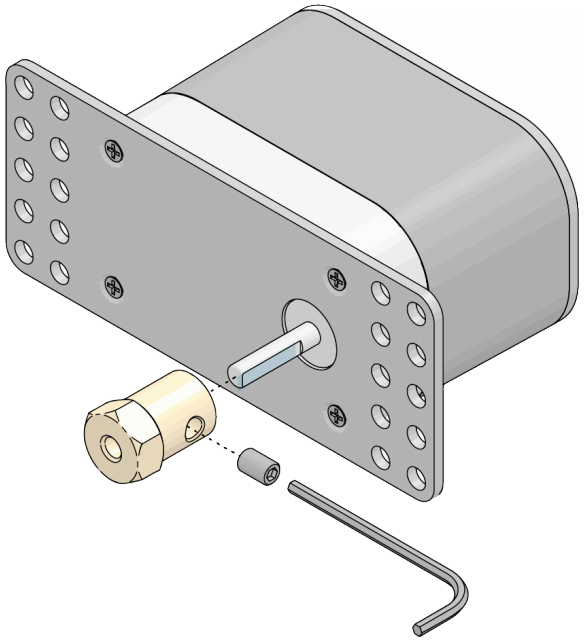




Use the 2mm Hex Key to tighten

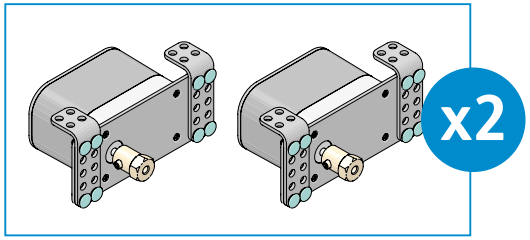
Make sure you align the flat edge of the motor correctly to the Wheel Connector





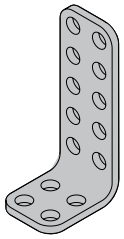
Encoder motors

Part 2



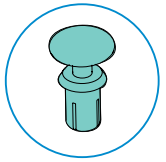
x4

90° Build Plates (2x5)



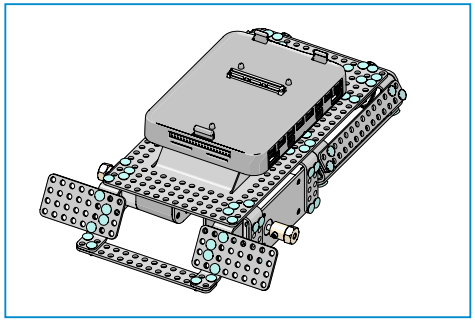
x16

Short Rivets



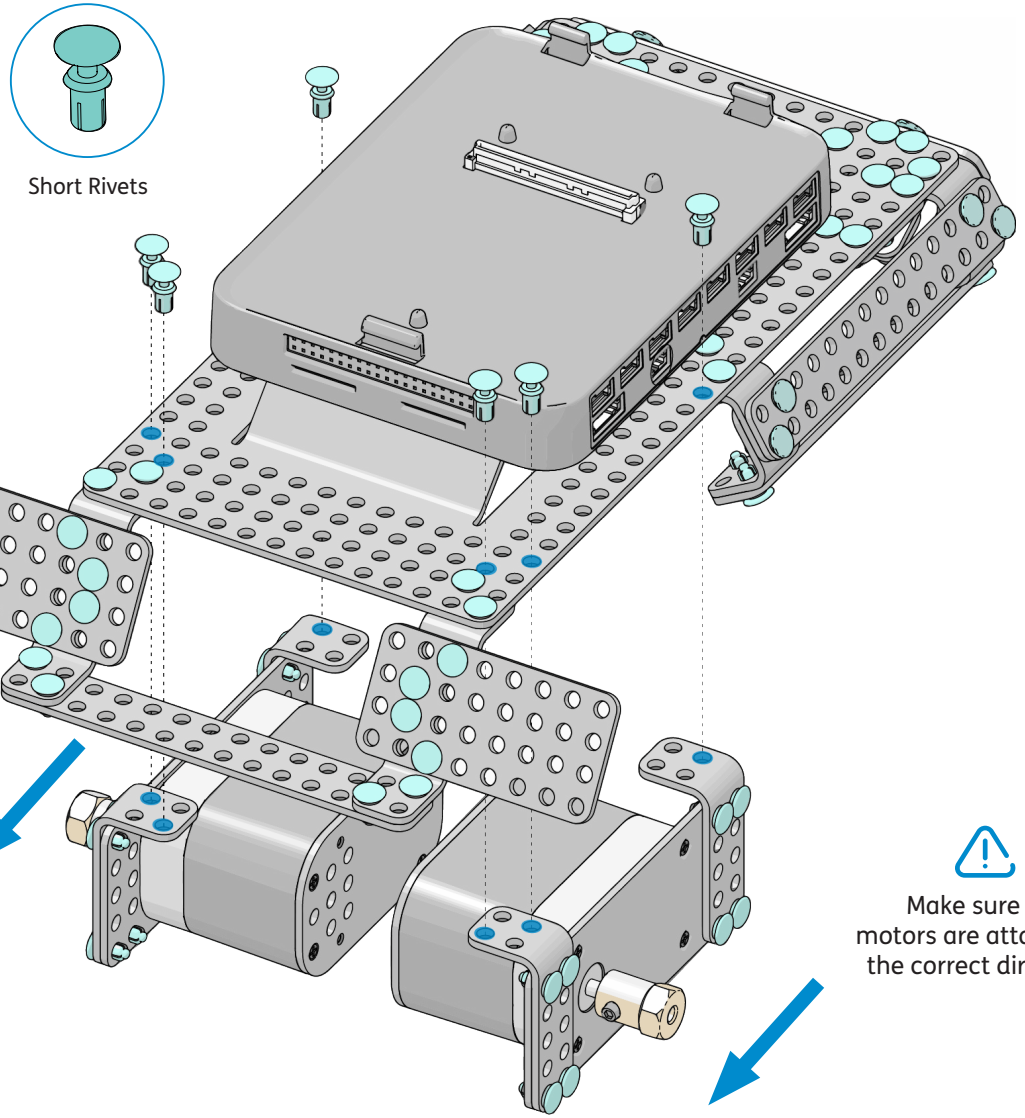
Short Rivets

Motor assembly



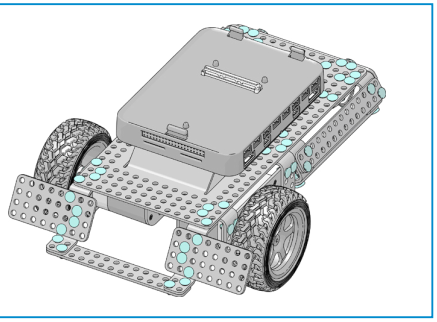
x8

Short Rivets



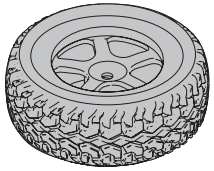
Make sure the motors are attached in the correct direction!

Wheels



x2

Wheels

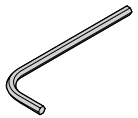


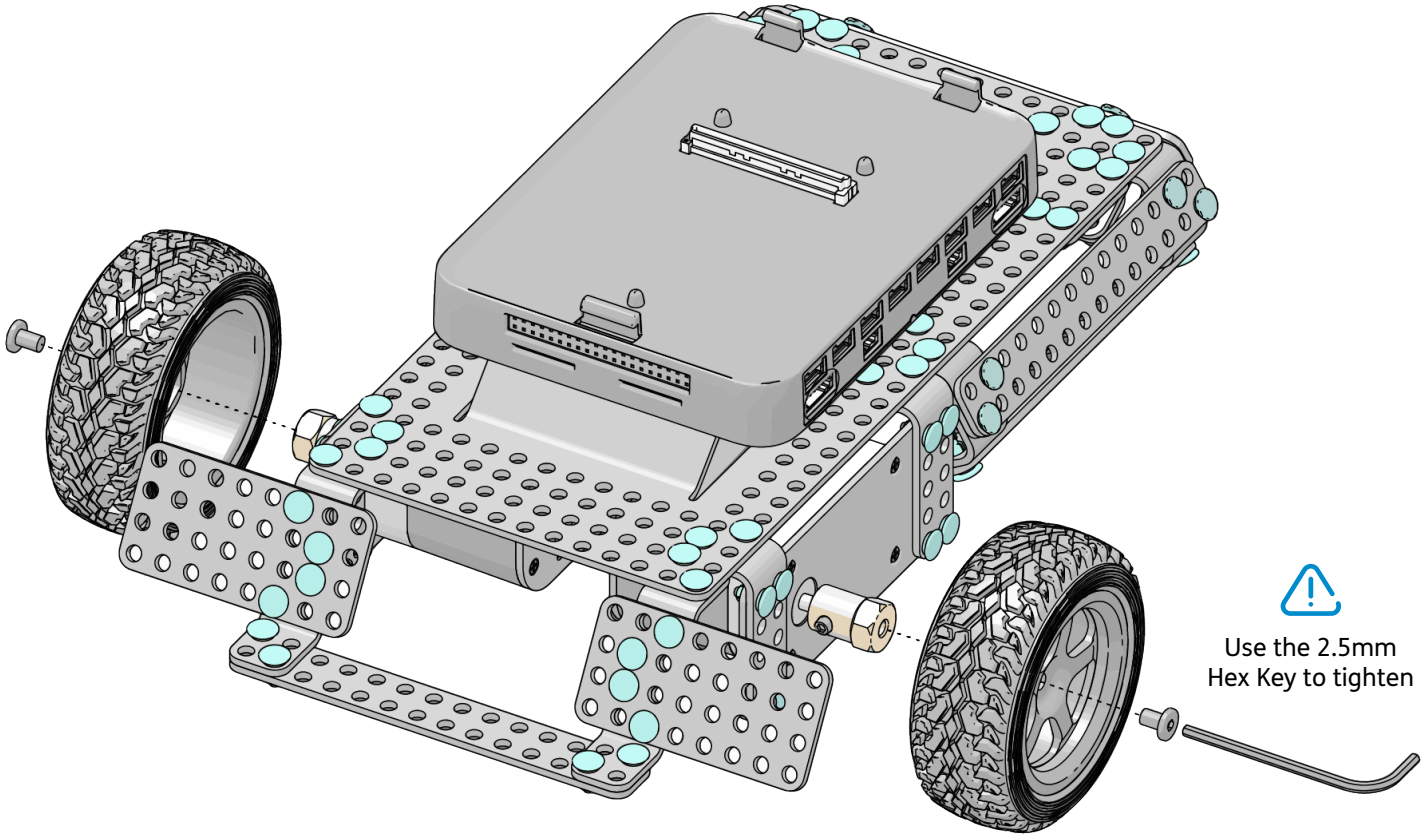
x2

M4 Wheel Screws

x1

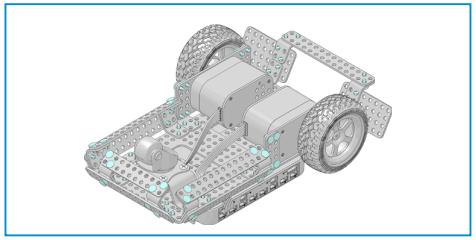
2.5mm Hex Key





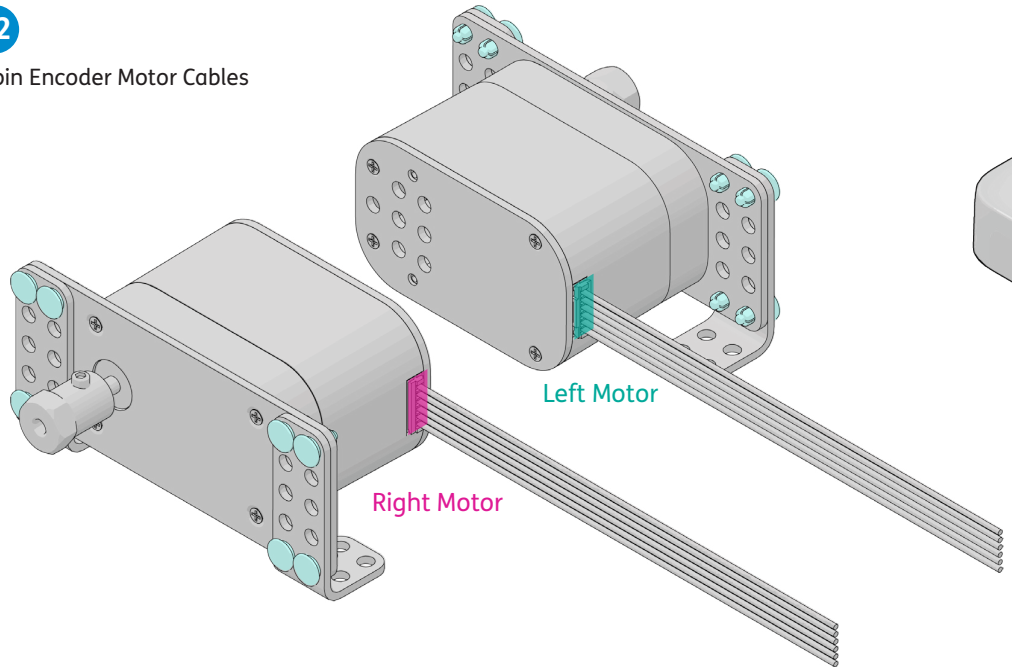
Use the 2.5mm Hex Key to tighten

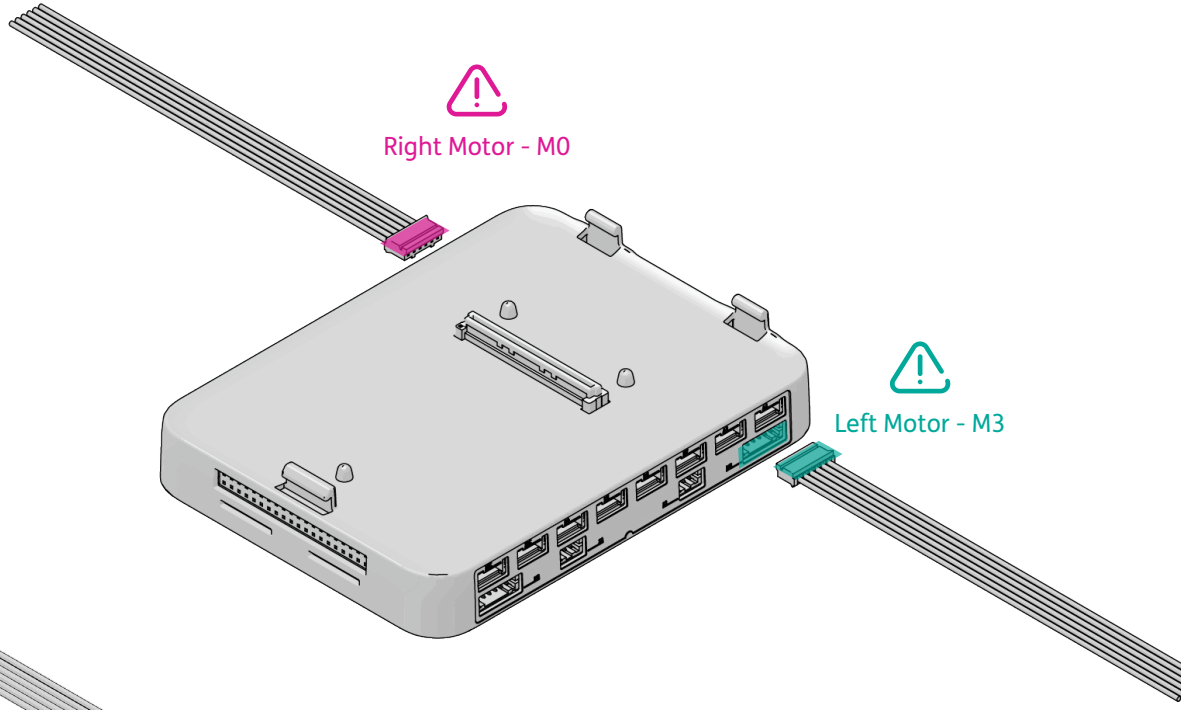
Connecting the Encoder Motors



x2

6-pin Encoder Motor Cables





Raspberry Pi made simple,
robust and modular.

pi-top.com

Having trouble? Check out:

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