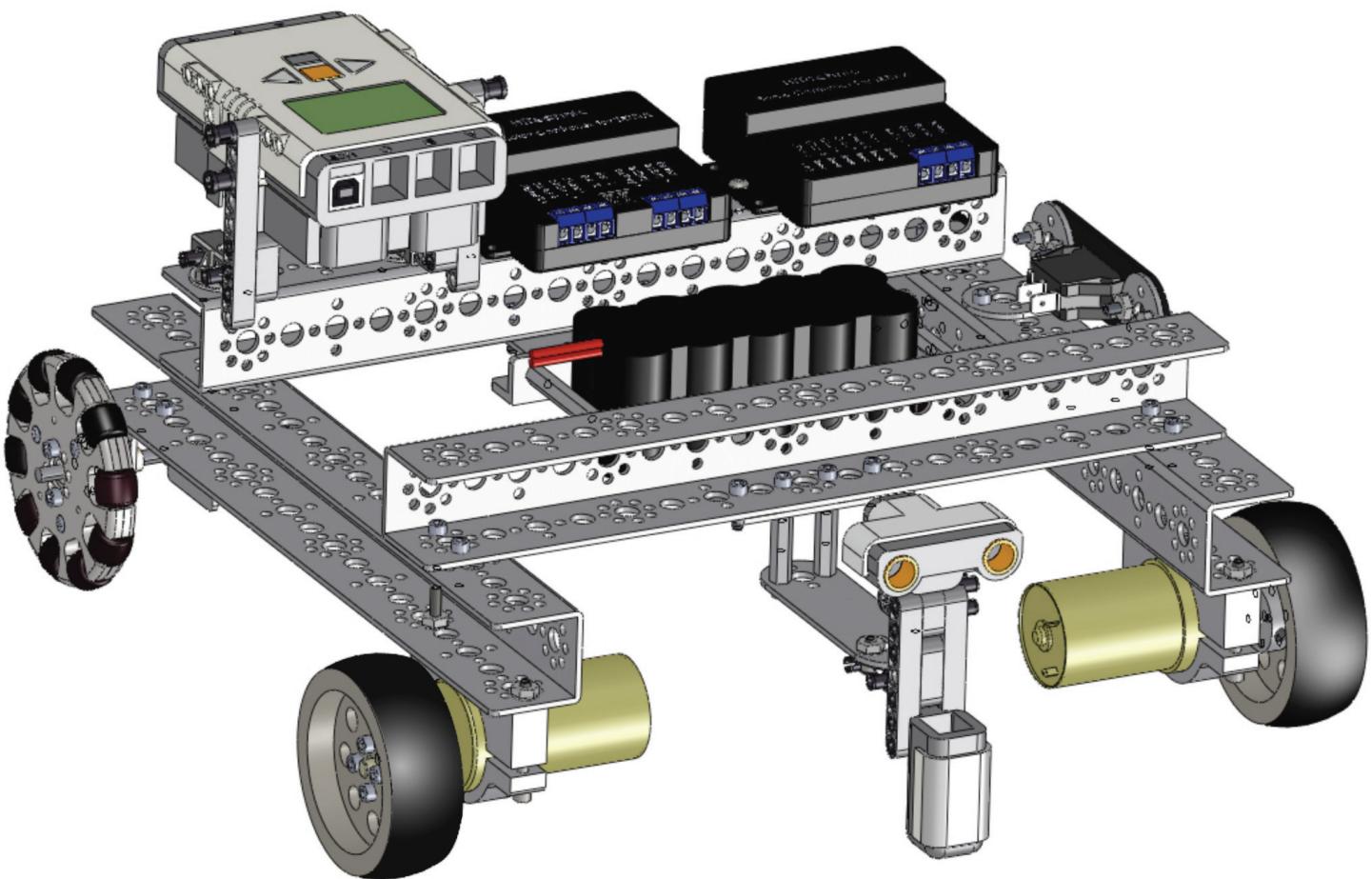


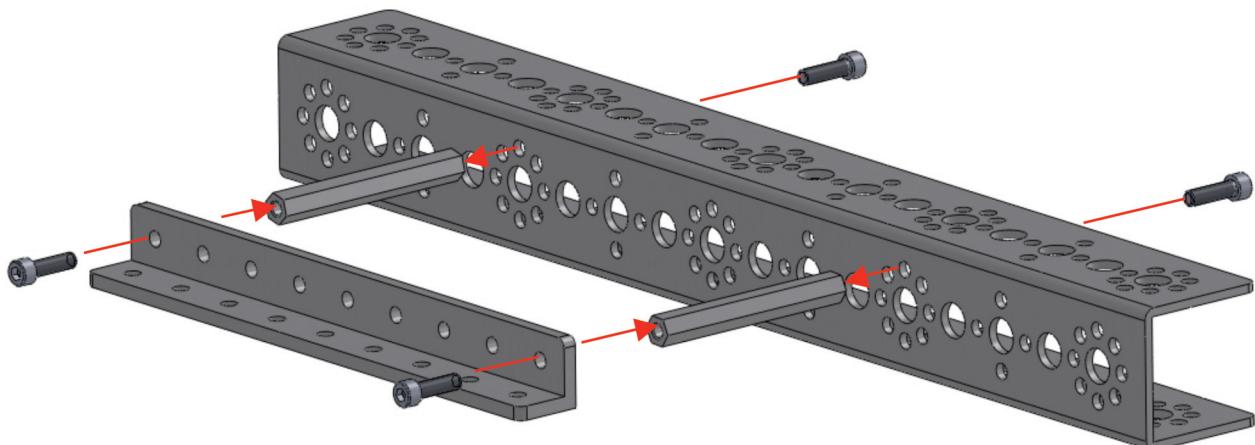
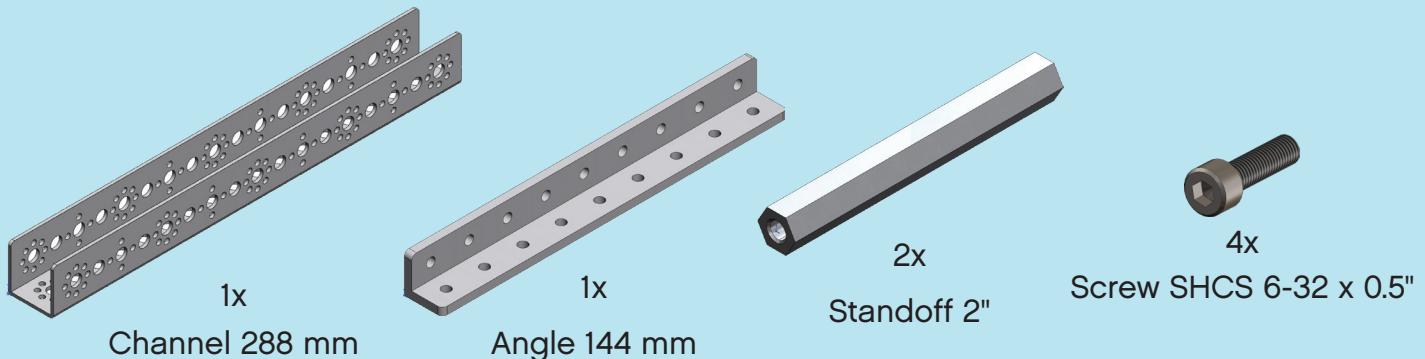
# TETRIX® Ranger Instructions



# Lesson 1: Basic Chassis

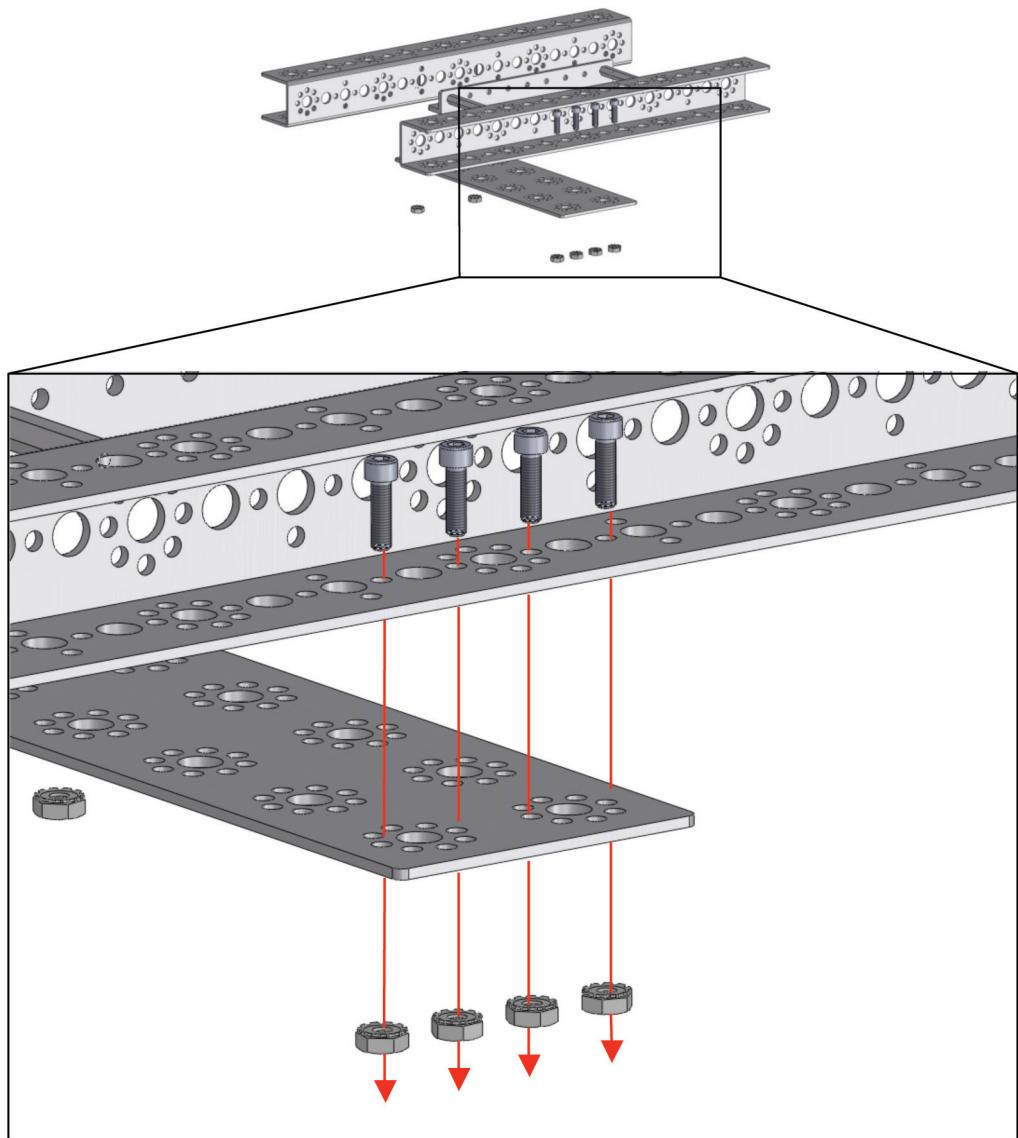
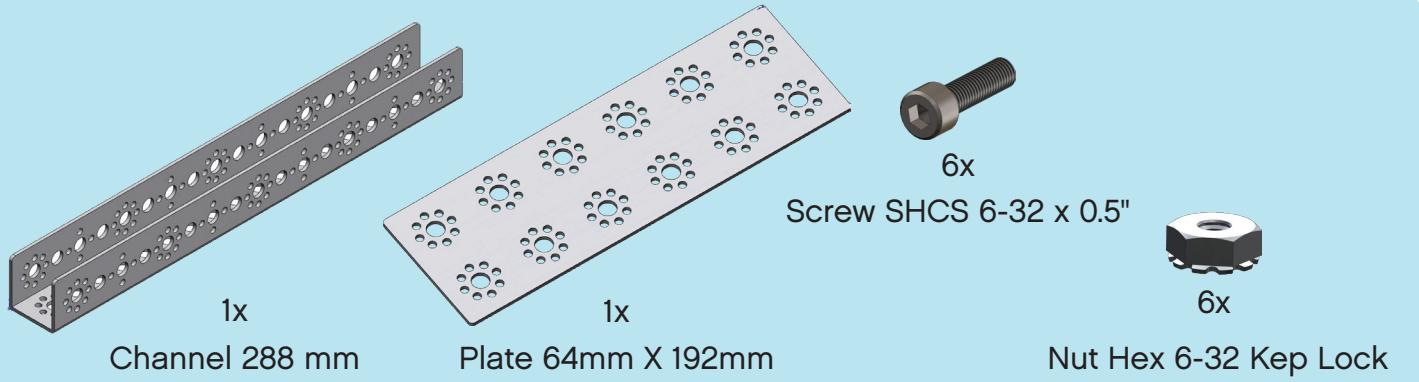
## TETRIX® Ranger Step 1

### Parts Needed

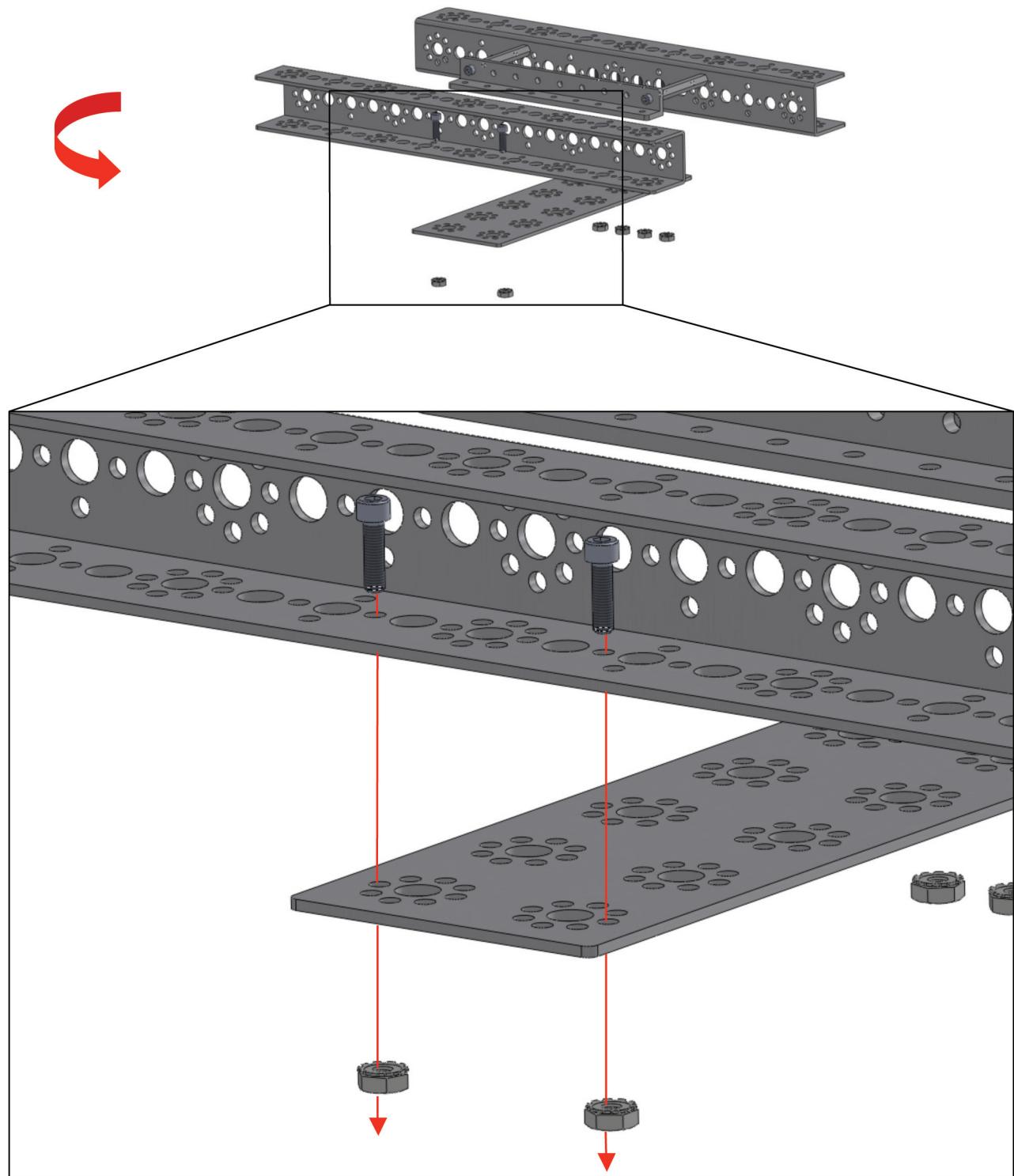


## TETRIX® Ranger Step 2

### Parts Needed

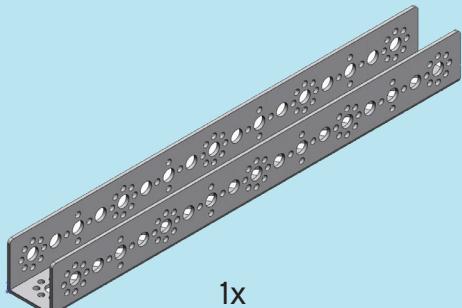


## TETRIX® Ranger Step 2 Reverse



## TETRIX® Ranger Step 3 (Left Side View)

### Parts Needed



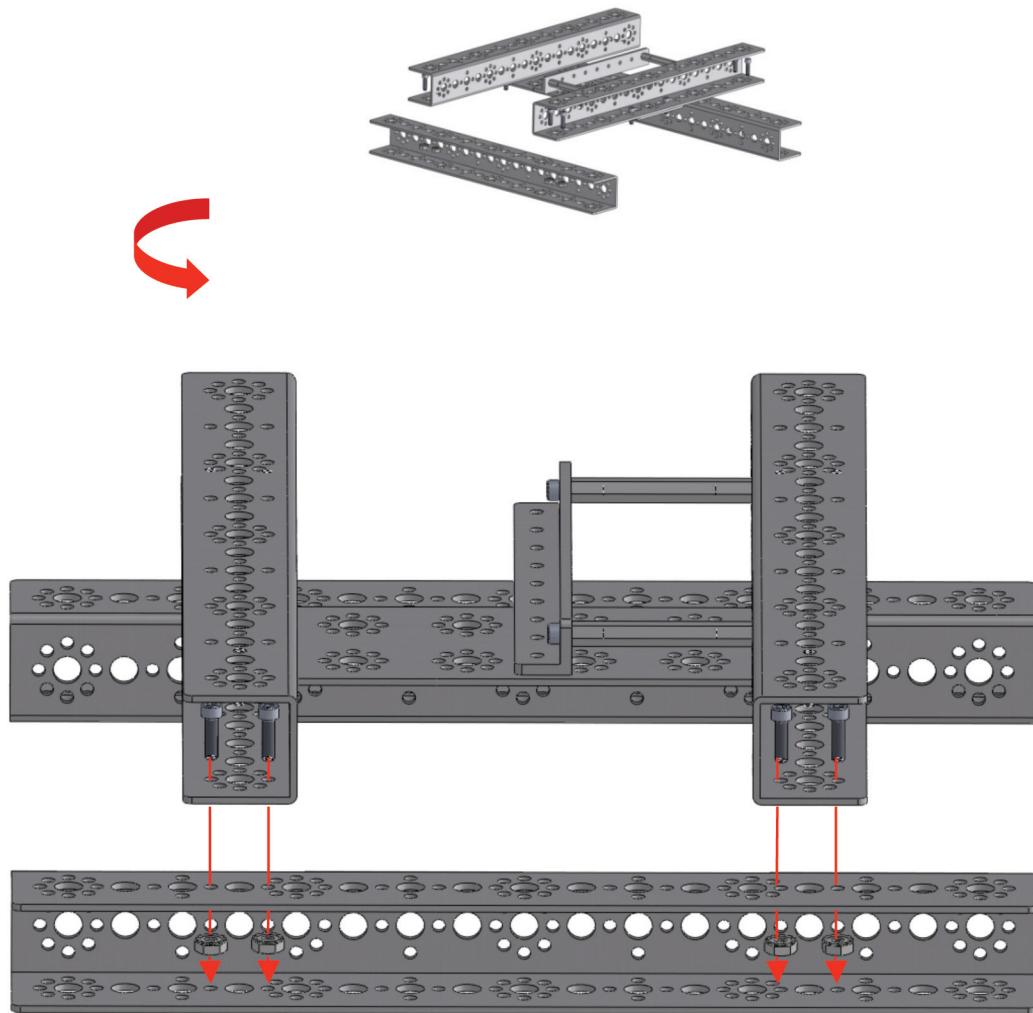
1x  
Channel 288 mm



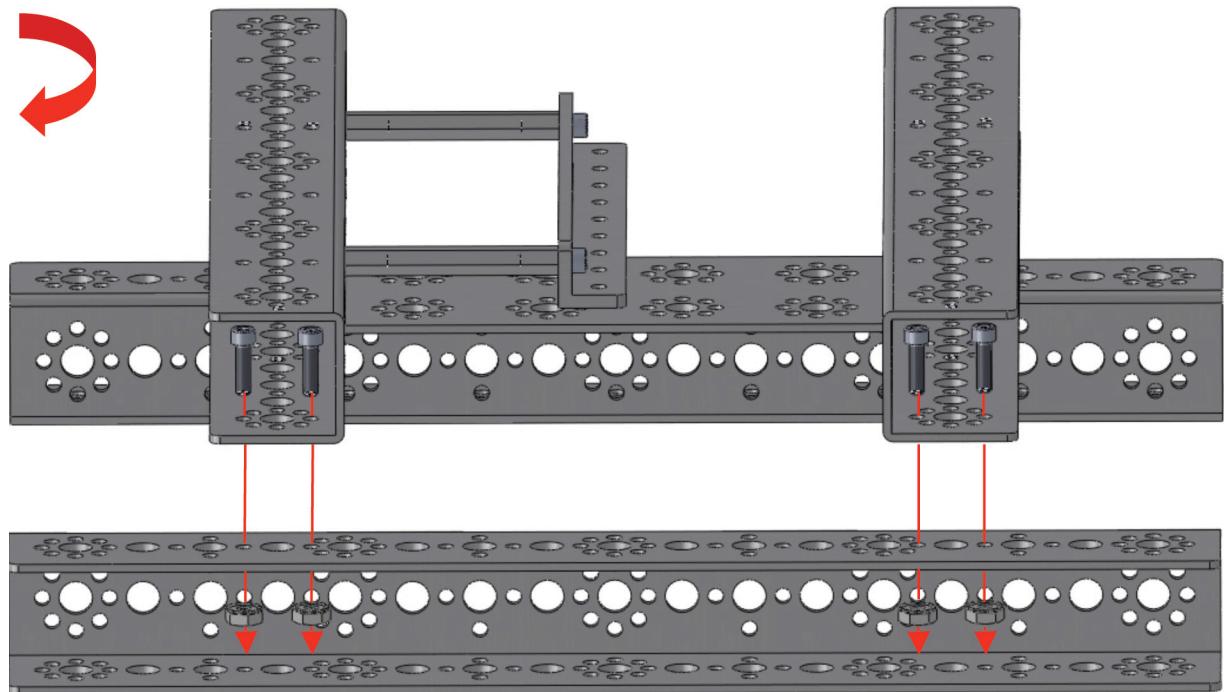
Screw SHCS 6-32 x 0.5"



Nut Hex 6-32 Kep Lock

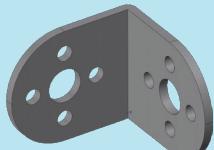


## TETRIX® Ranger Step 3 (Right Side View)



## TETRIX® Ranger Step 4

### Parts Needed



2x

Bracket L-Angle



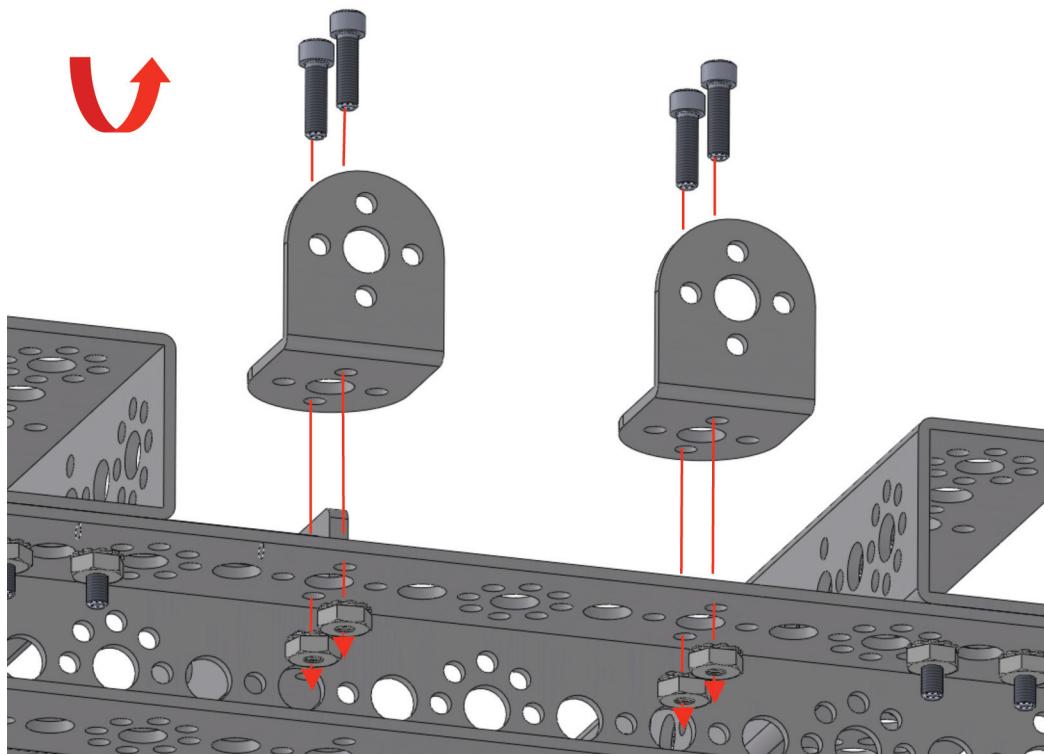
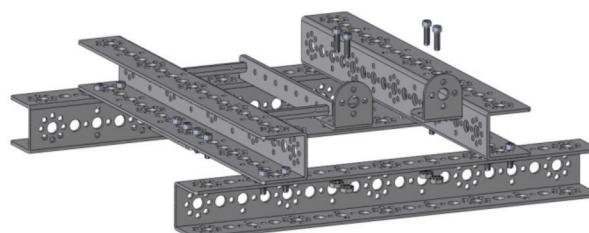
4x

Screw SHCS 6-32 x 0.5"



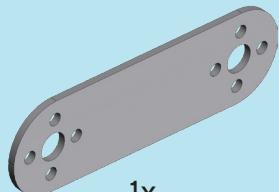
4x

Nut Hex 6-32 Kep Lock



## TETRIX® Ranger Step 5

### Parts Needed



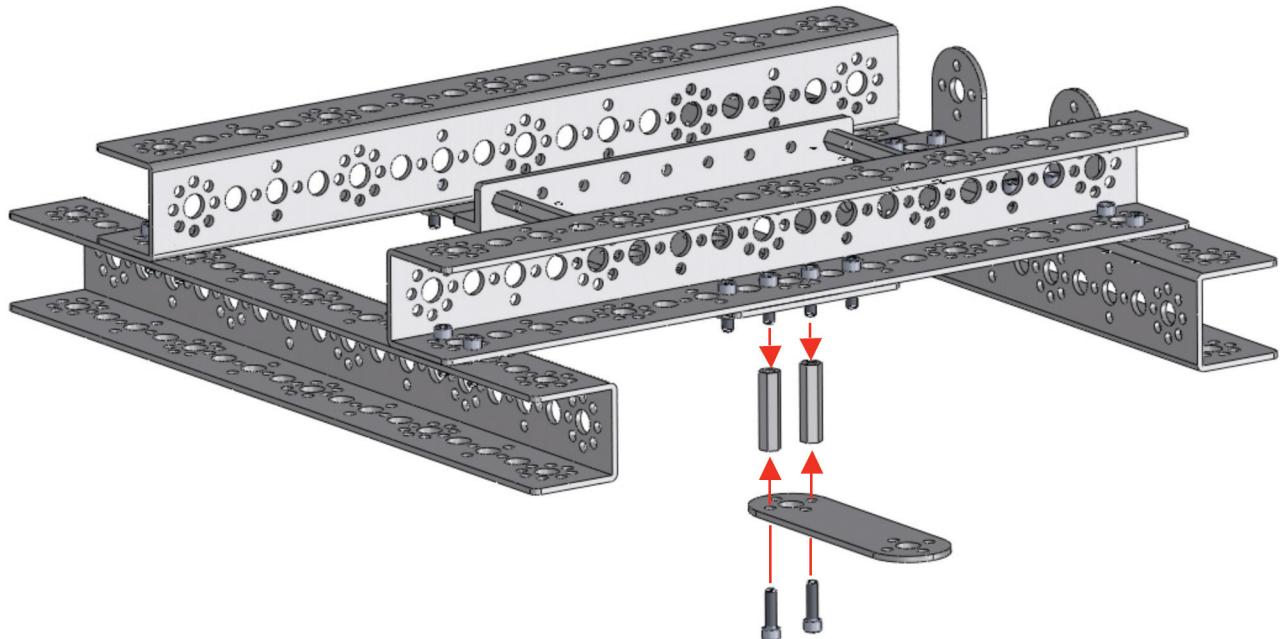
1x  
Bracket Flat



2x  
Standoff 1"

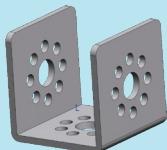


2x  
Screw SHCS 6-32 x 0.5"



## TETRIX® Ranger Step 6

### Parts Needed



2x

Channel 32 mm



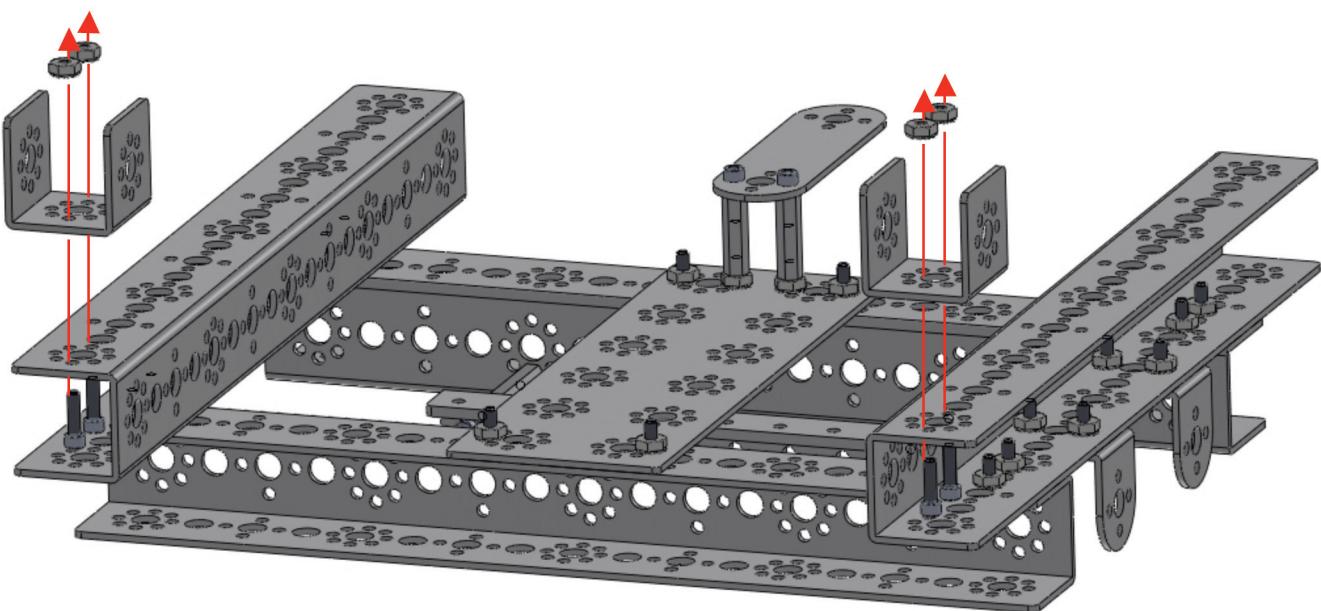
4x

Screw SHCS 6-32 x 0.5"



4x

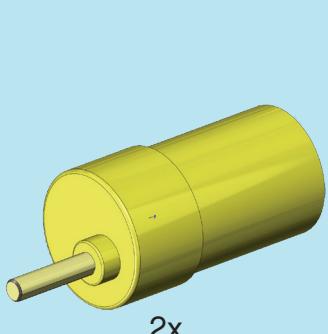
Nut Hex 6-32 Kep Lock



## Lesson 2: Movement

### TETRIX® Ranger Step 7

#### Parts Needed



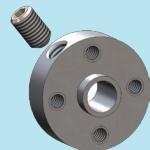
DC Gearhead Motor



Motor Mount



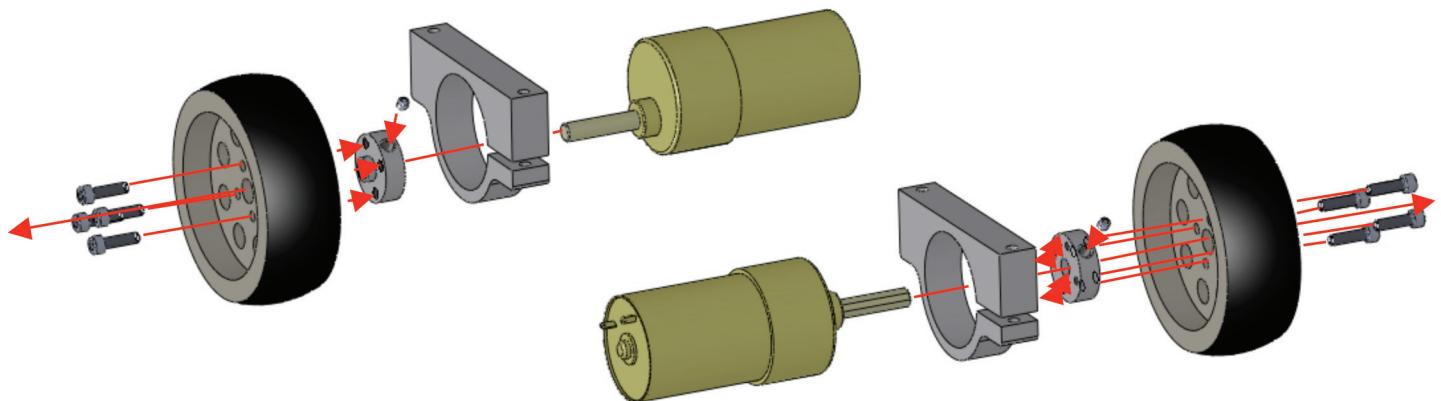
3" Wheel



Motor Hub



Screw SHCS 6-32 x 0.5"



## TETRIX® Ranger Step 8

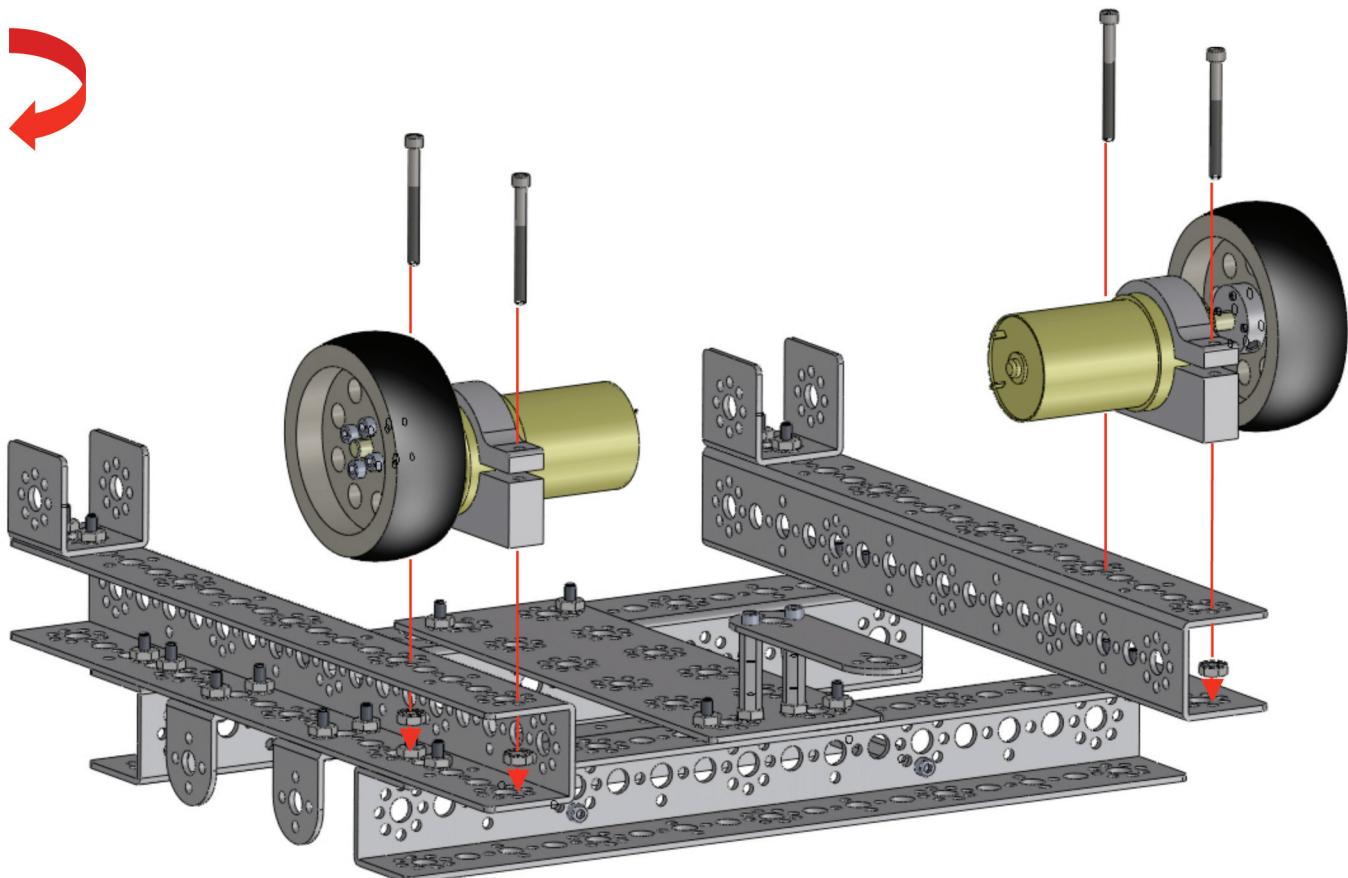
### Parts Needed



4x  
Screw SHCS 6-32 x 1.5"



4x  
Nut Hex 6-32 Kep Lock



## TETRIX® Ranger Step 9

### Parts Needed



2x

Omni Single Wheel



2x  
Axe Hub



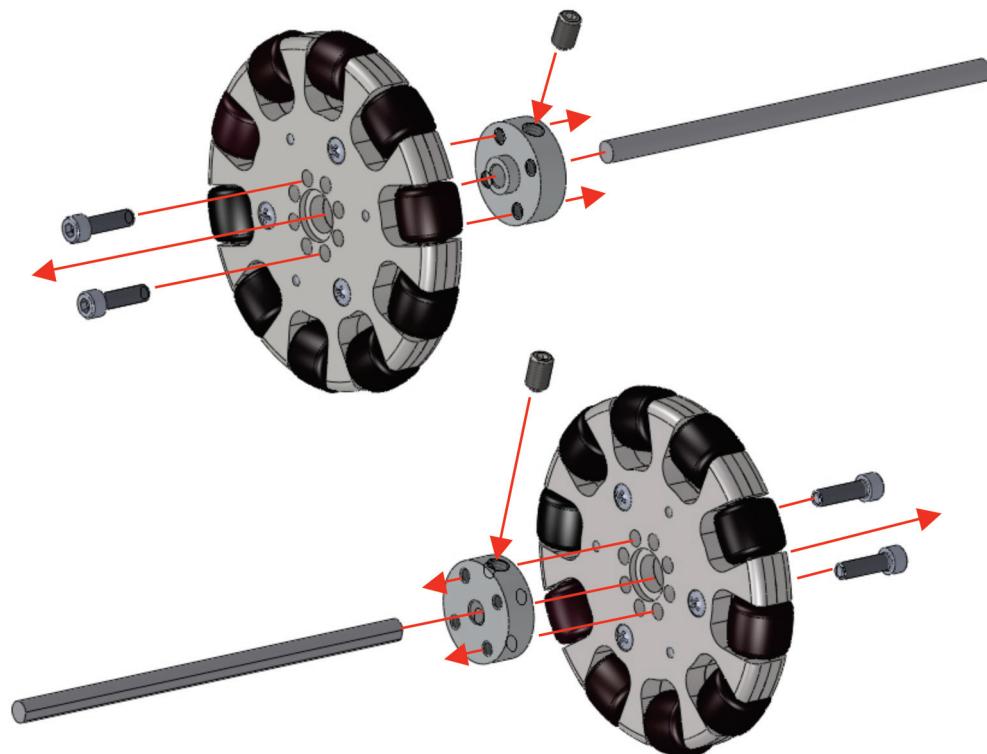
4x

Screw SHCS 6-32 x 0.5"



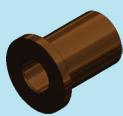
2x

100 mm Shaft



## TETRIX® Ranger Step 10

### Parts Needed



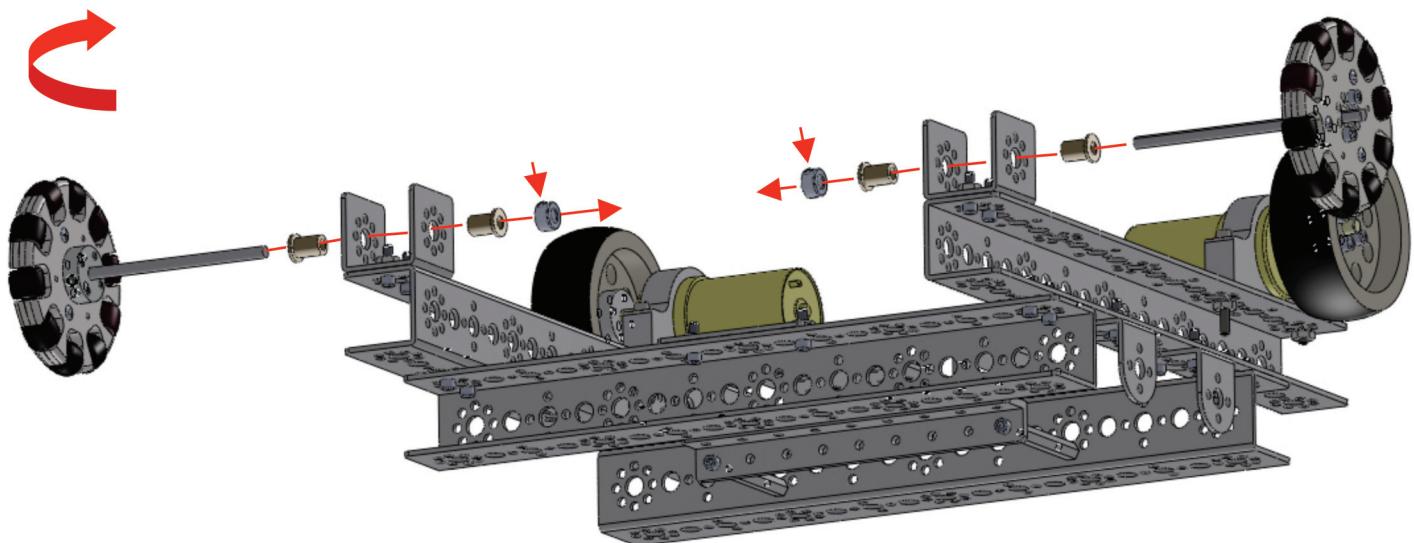
4x



2x

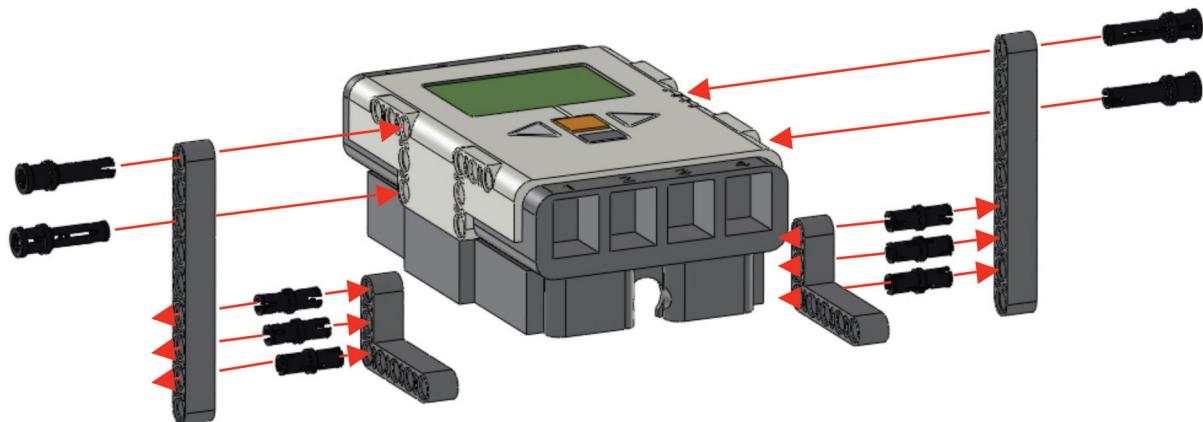
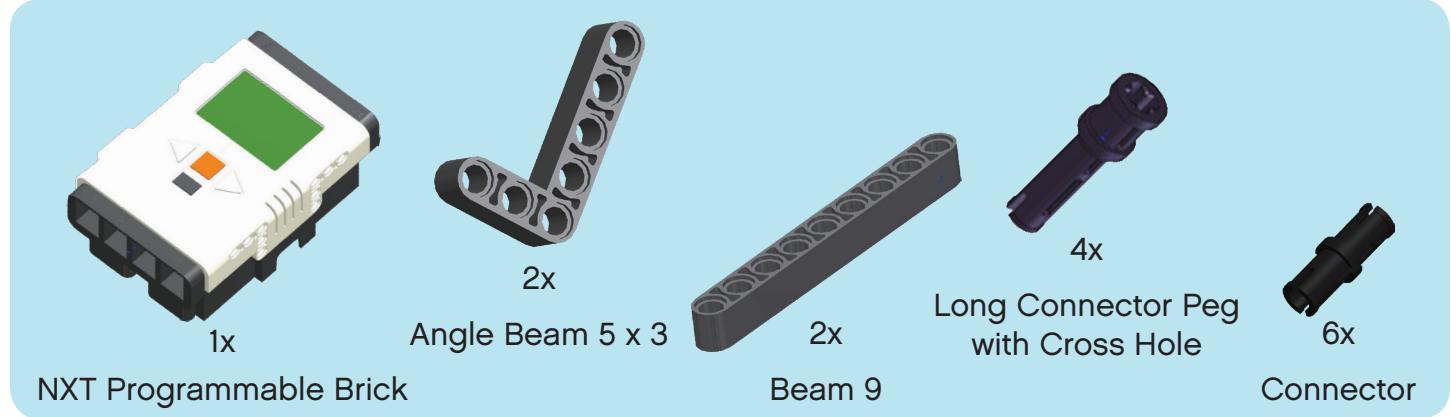
Axele Bronze Bushing

Axele Set Collar



## TETRIX® Ranger Step 11

### Parts Needed



## TETRIX® Ranger Step 12

### Parts Needed



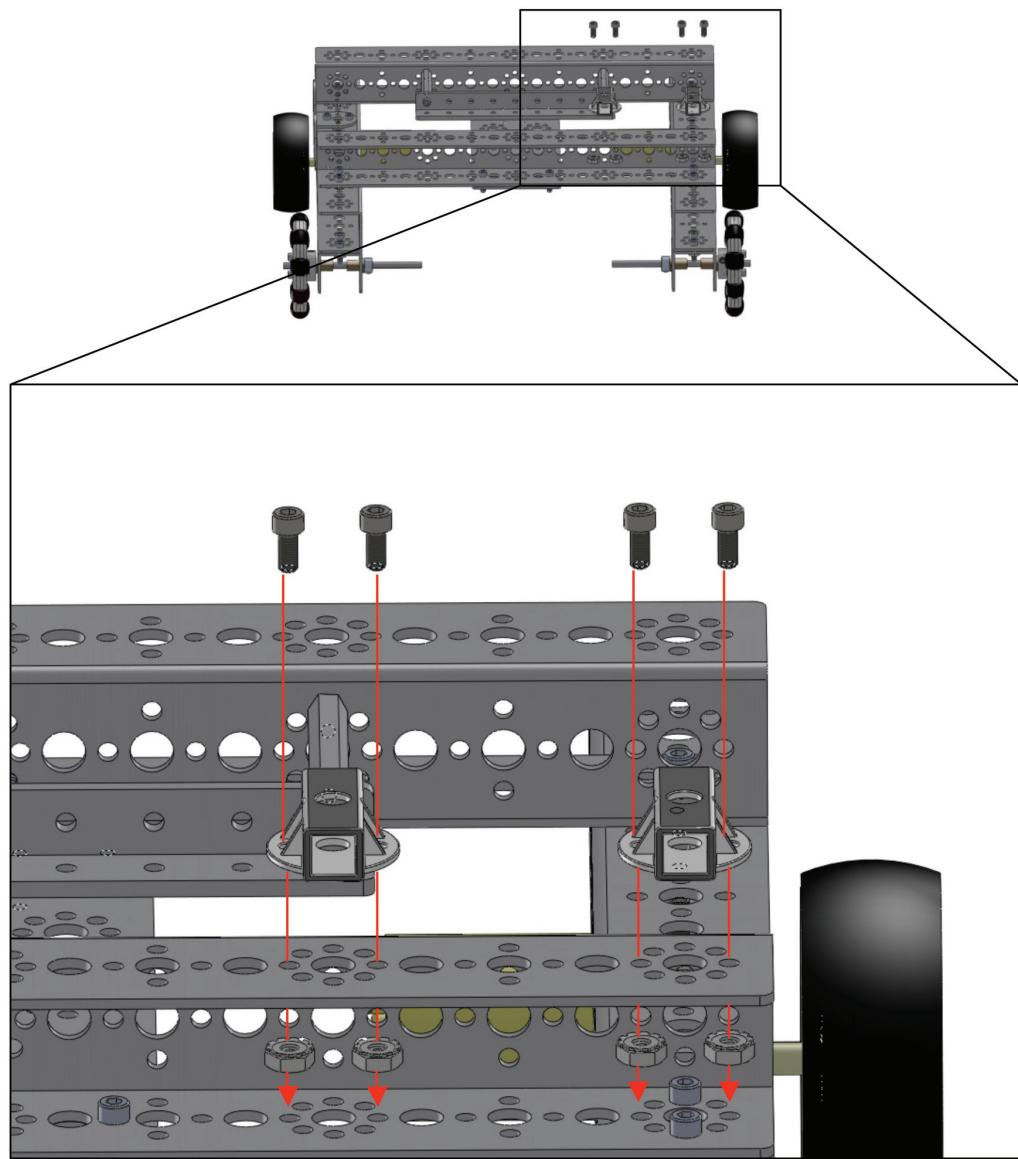
2x  
LEGO HPC



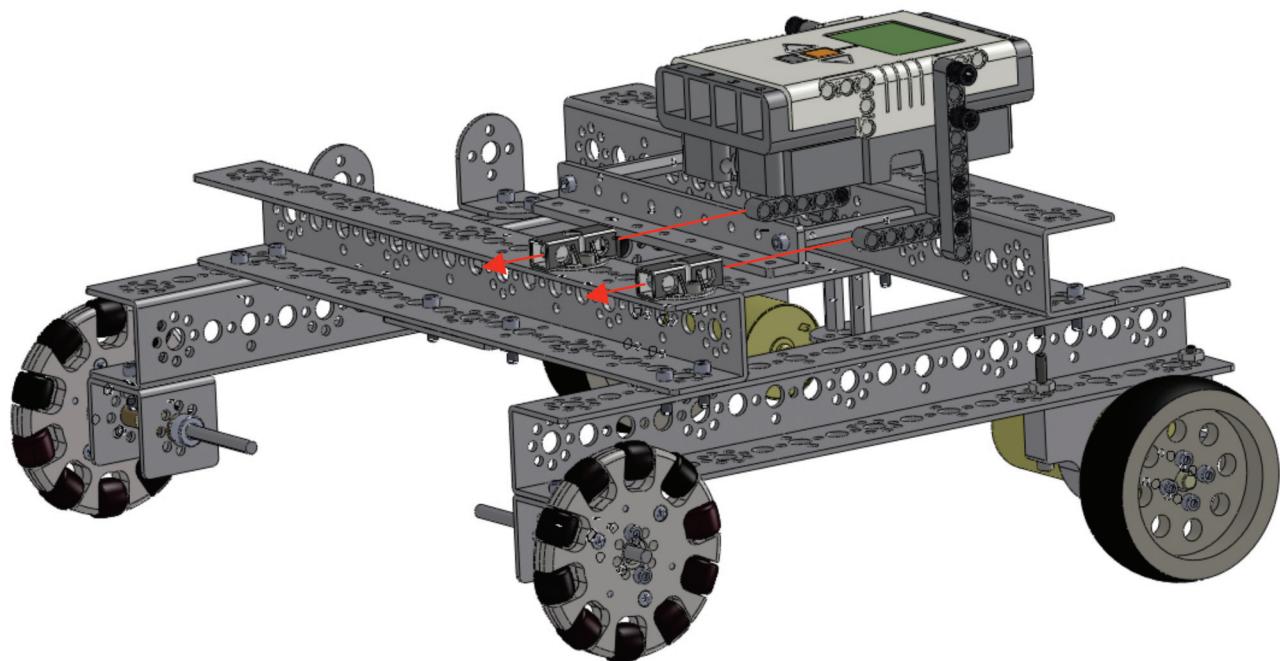
4x  
Screw SHCS 6-32 x 0.3125"



4x  
Nut Hex 6-32 Kep Lock



## TETRIX® Ranger Step 13



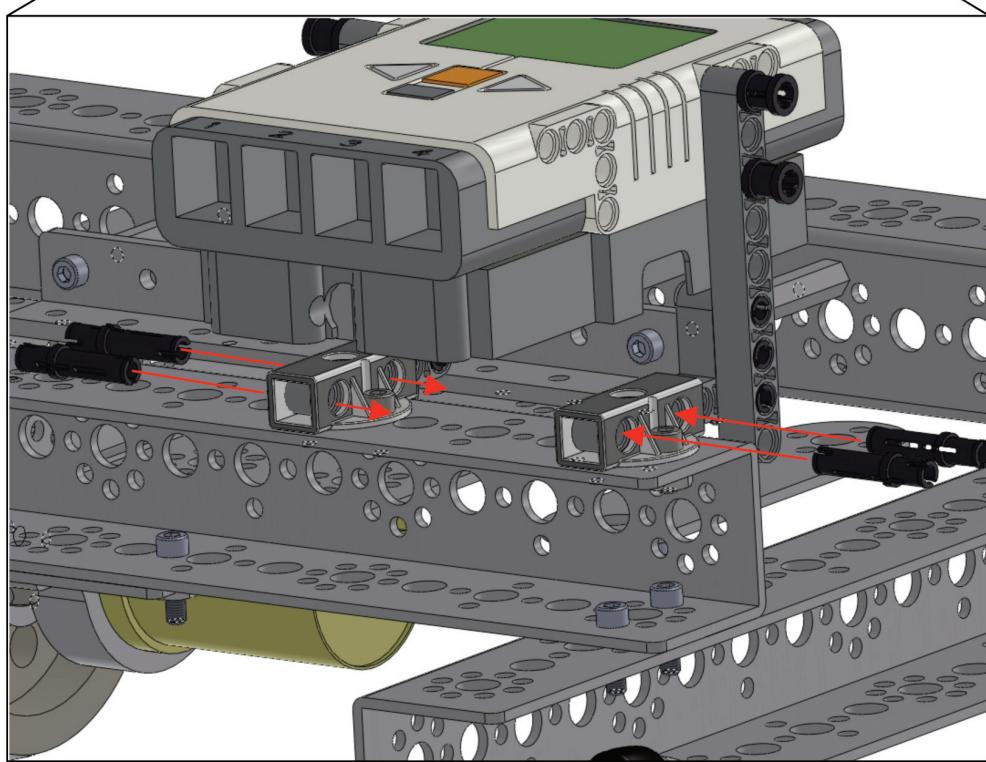
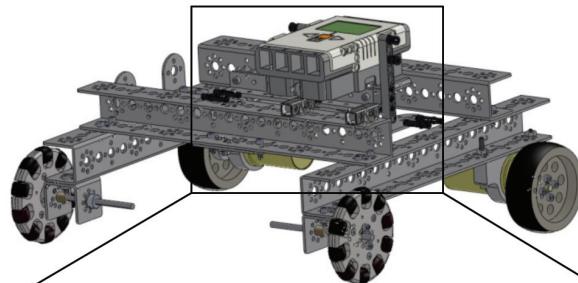
## TETRIX® Ranger Step 14

### Parts Needed



4x

Long Connector 3



## TETRIX® Ranger Step 15

### Parts Needed



1x

TETRIX DC Controller



1x

TETRIX Servo Controller



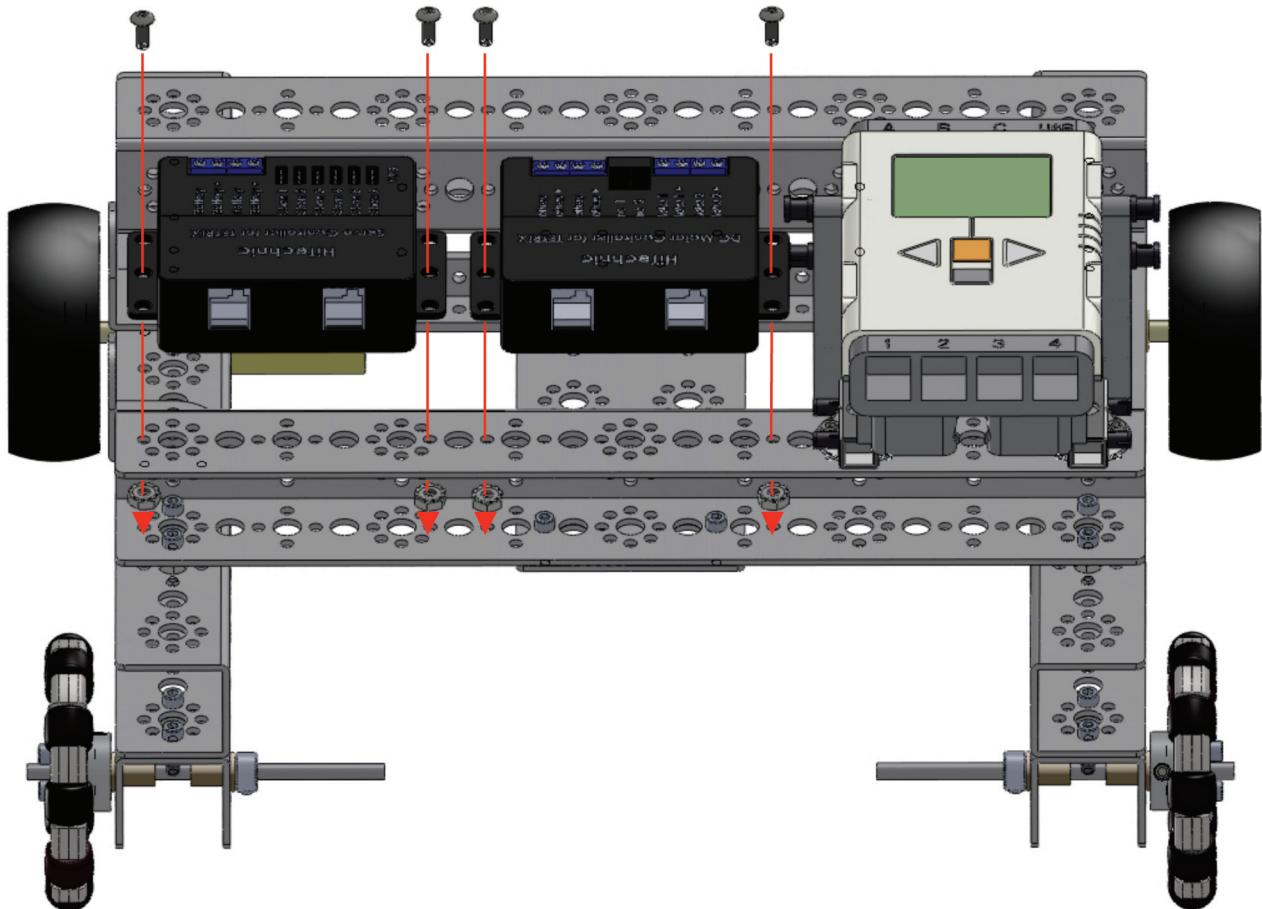
4x

Screw BHCS 6-32 x 0.375"



4x

Nut Hex 6-32 Kep Lock



## Lesson 3: Sensors

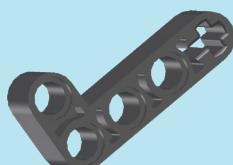
### TETRIX® Ranger Step 16

#### Parts Needed



1x

Sonar Sensor



1x

Angle Beam 4x2



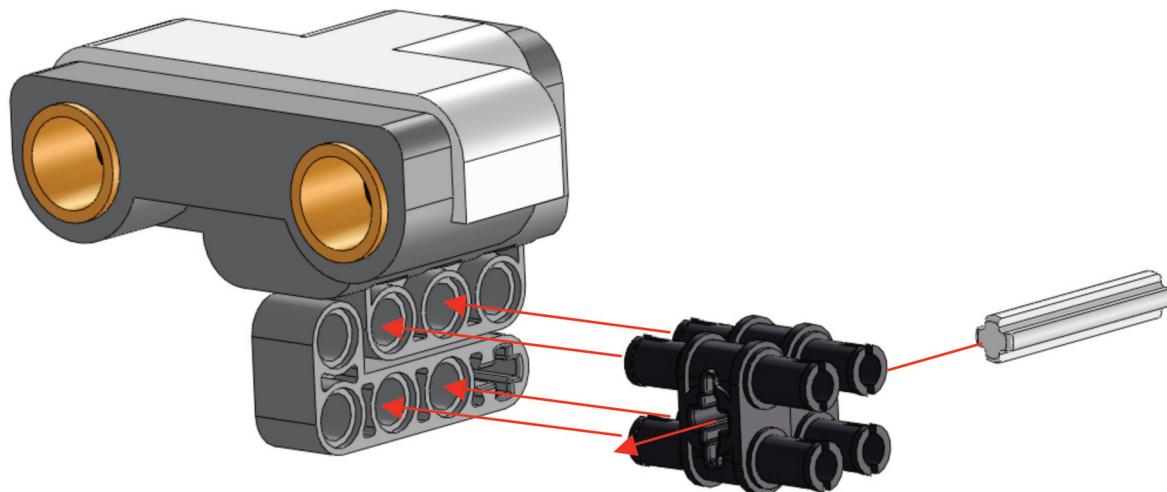
2x

Double Connector



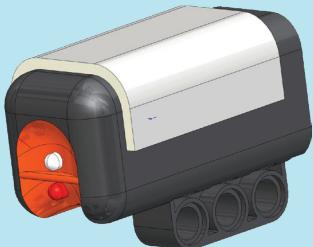
1x

Axe 3



## TETRIX® Ranger Step 17

### Parts Needed



1x

Light Sensor



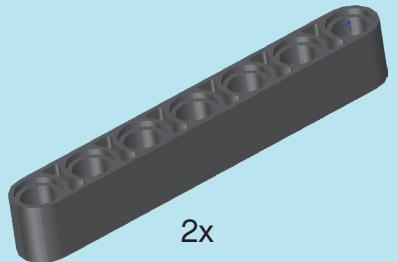
1x

Angle Beam 5 x 3



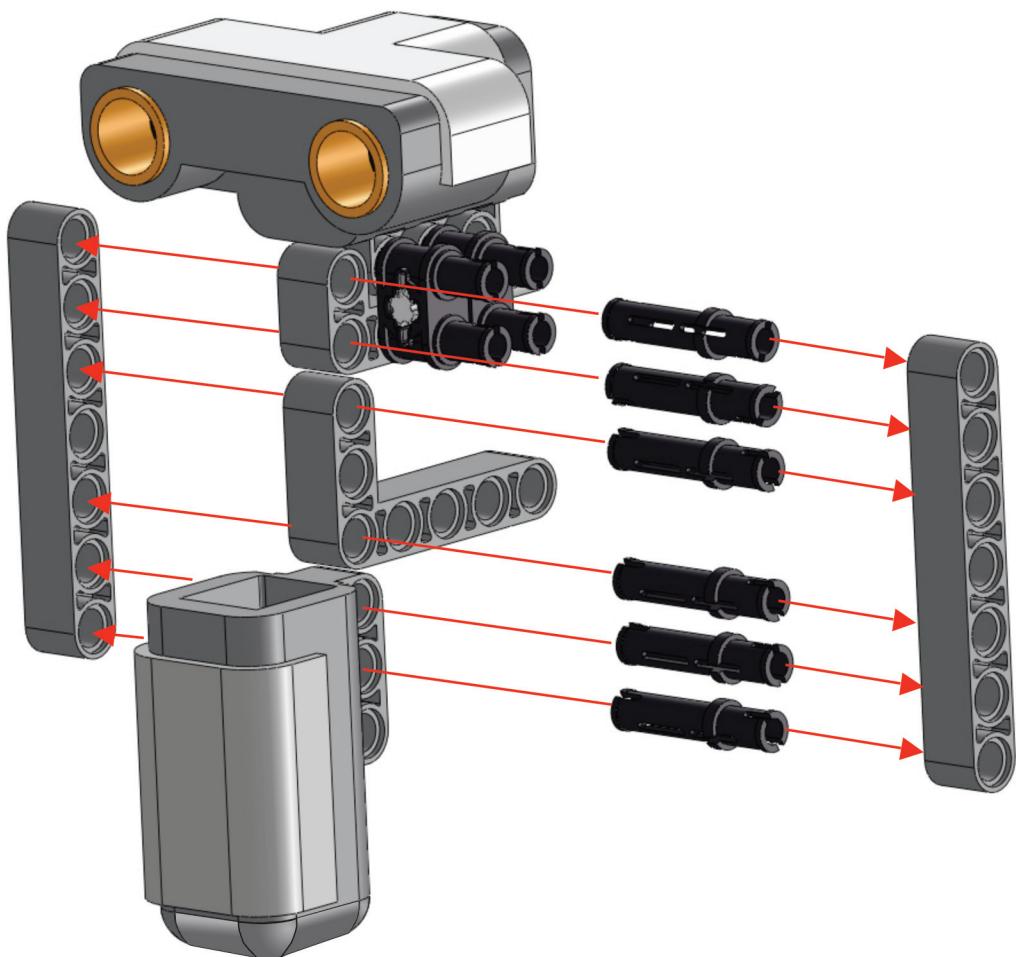
6x

Long Connector 3



2x

Beam 7



## TETRIX® Ranger Step 18

### Parts Needed



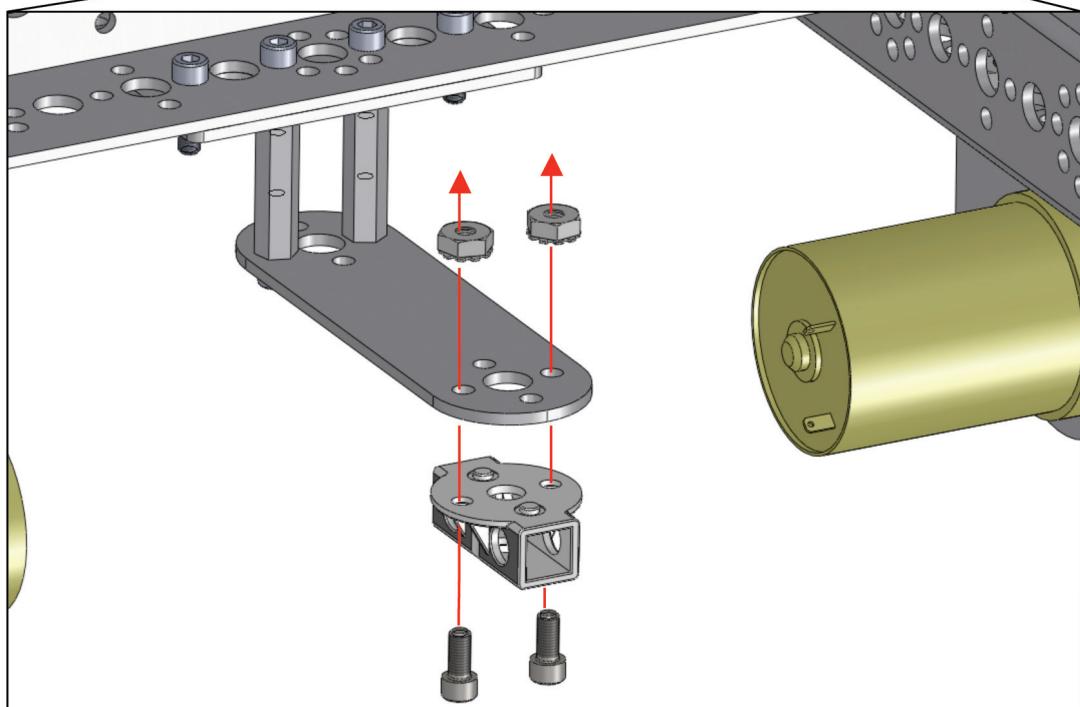
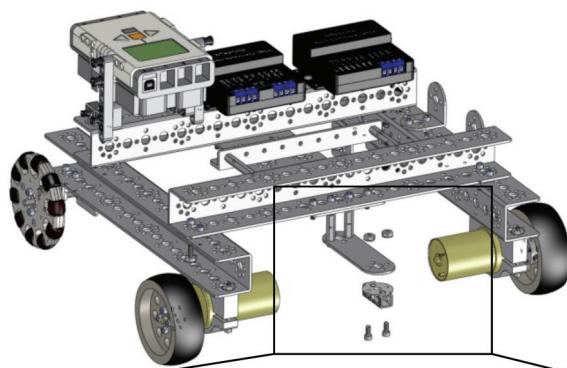
1x  
LEGO HPC



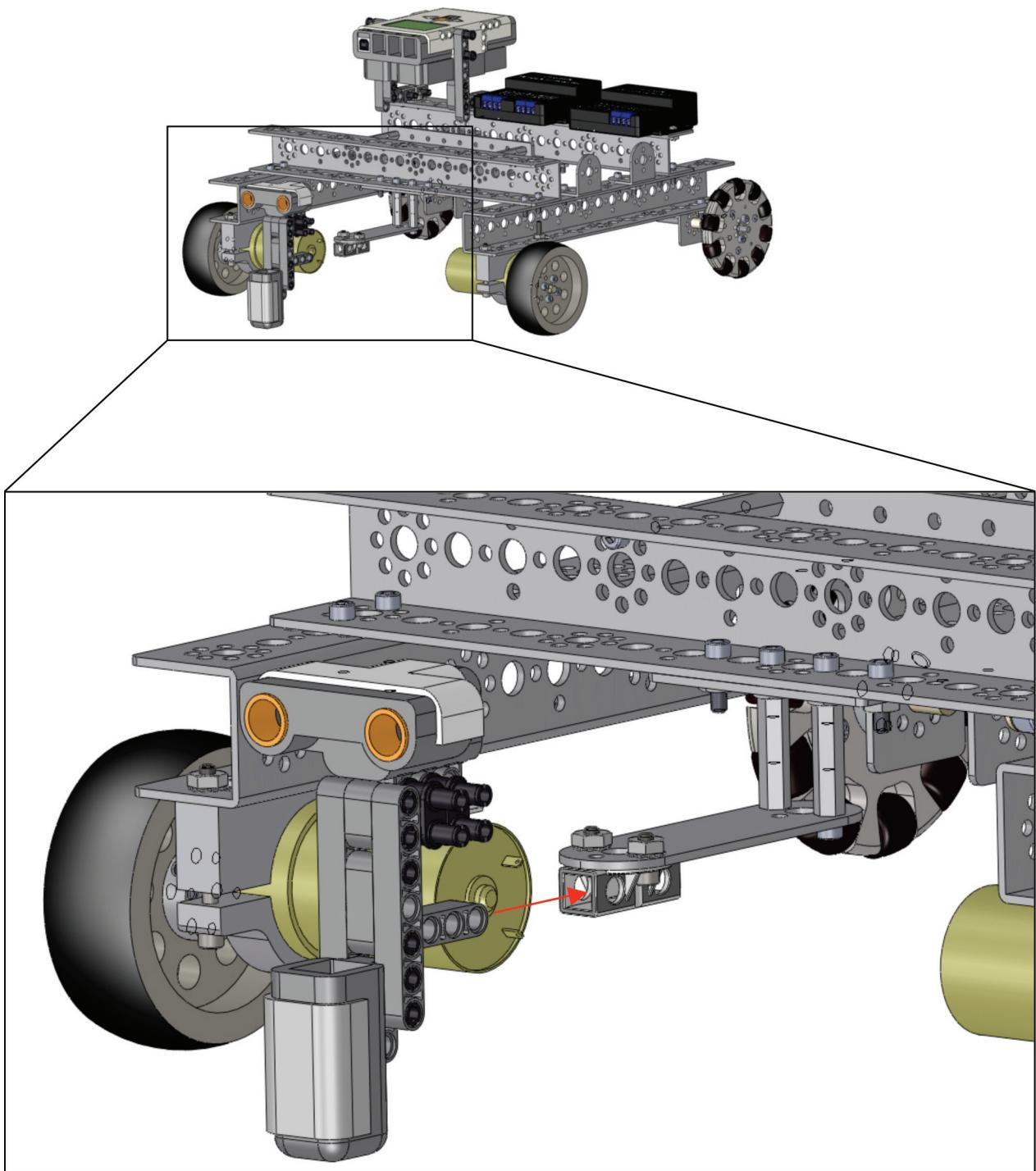
2x  
Screw SHCS 6-32 x 0.3125"



2x  
Nut Hex 6-32 Kep Lock



## TETRIX® Ranger Step 19



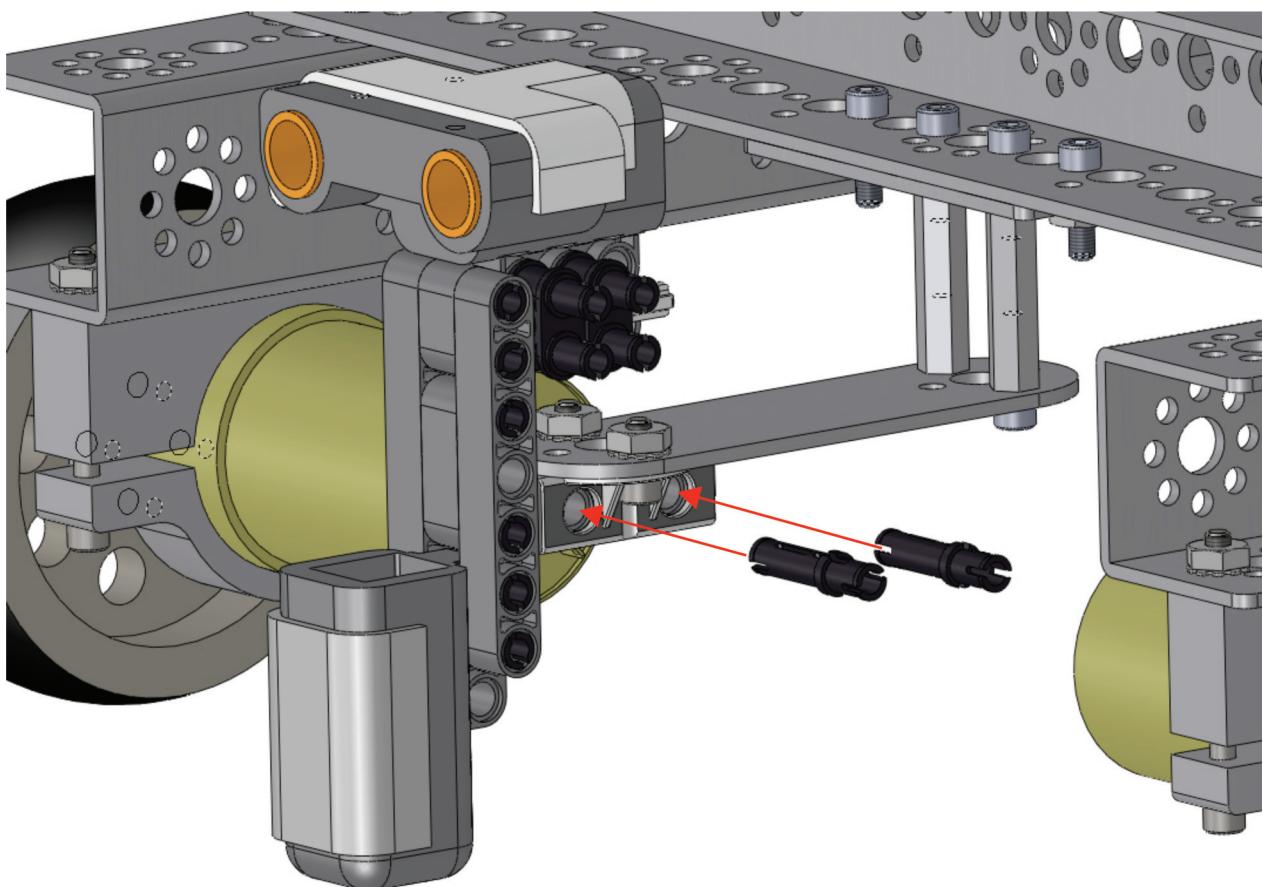
## TETRIX® Ranger Step 20

### Parts Needed



2x

Long Connector 3



## TETRIX® Ranger Step 21

### Parts Needed



1x

Bracket Switch Mount



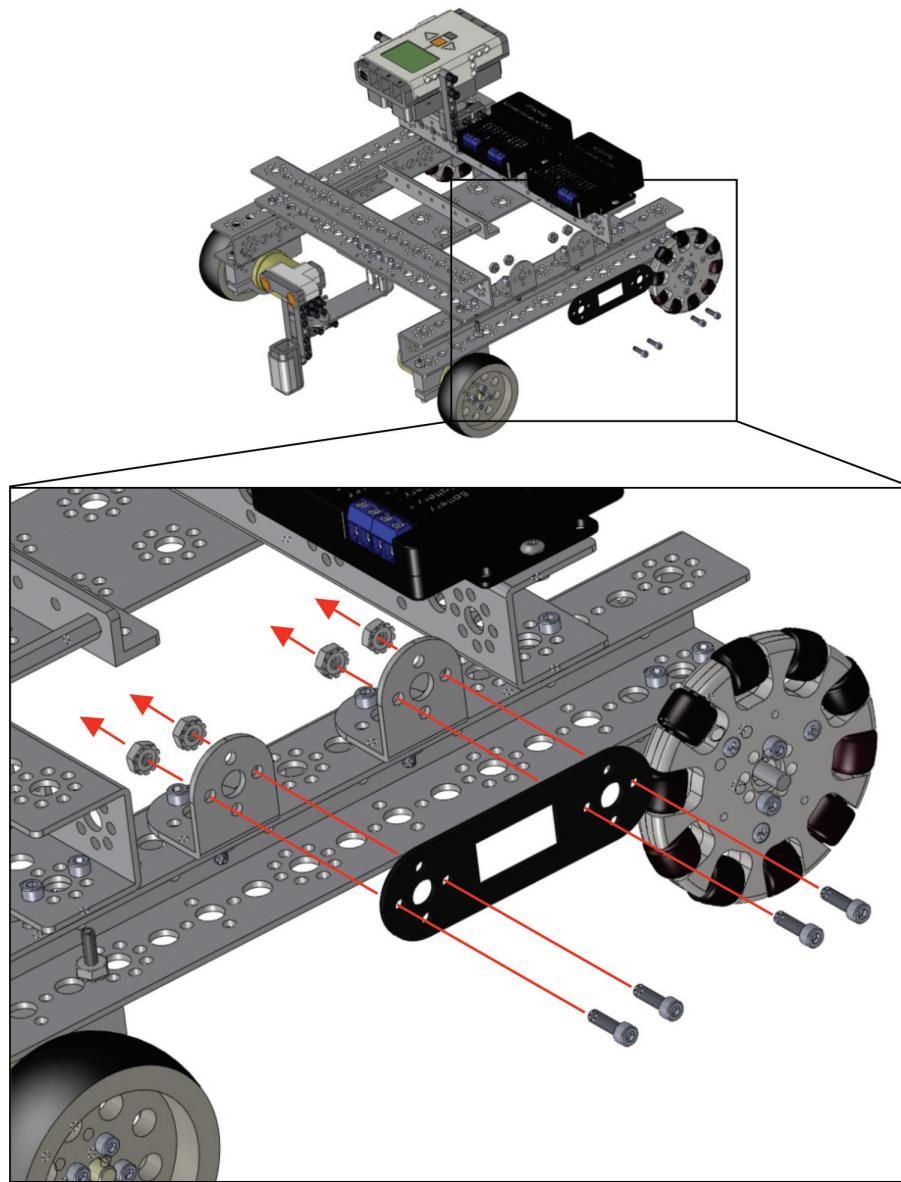
4x

Screw SHCS 6-32 x 0.5"



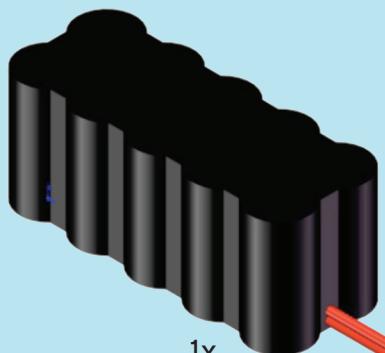
4x

Nut Hex 6-32 Kep Lock

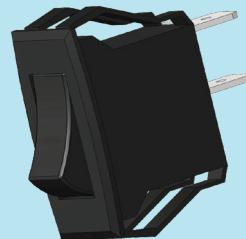


## TETRIX® Ranger Step 22

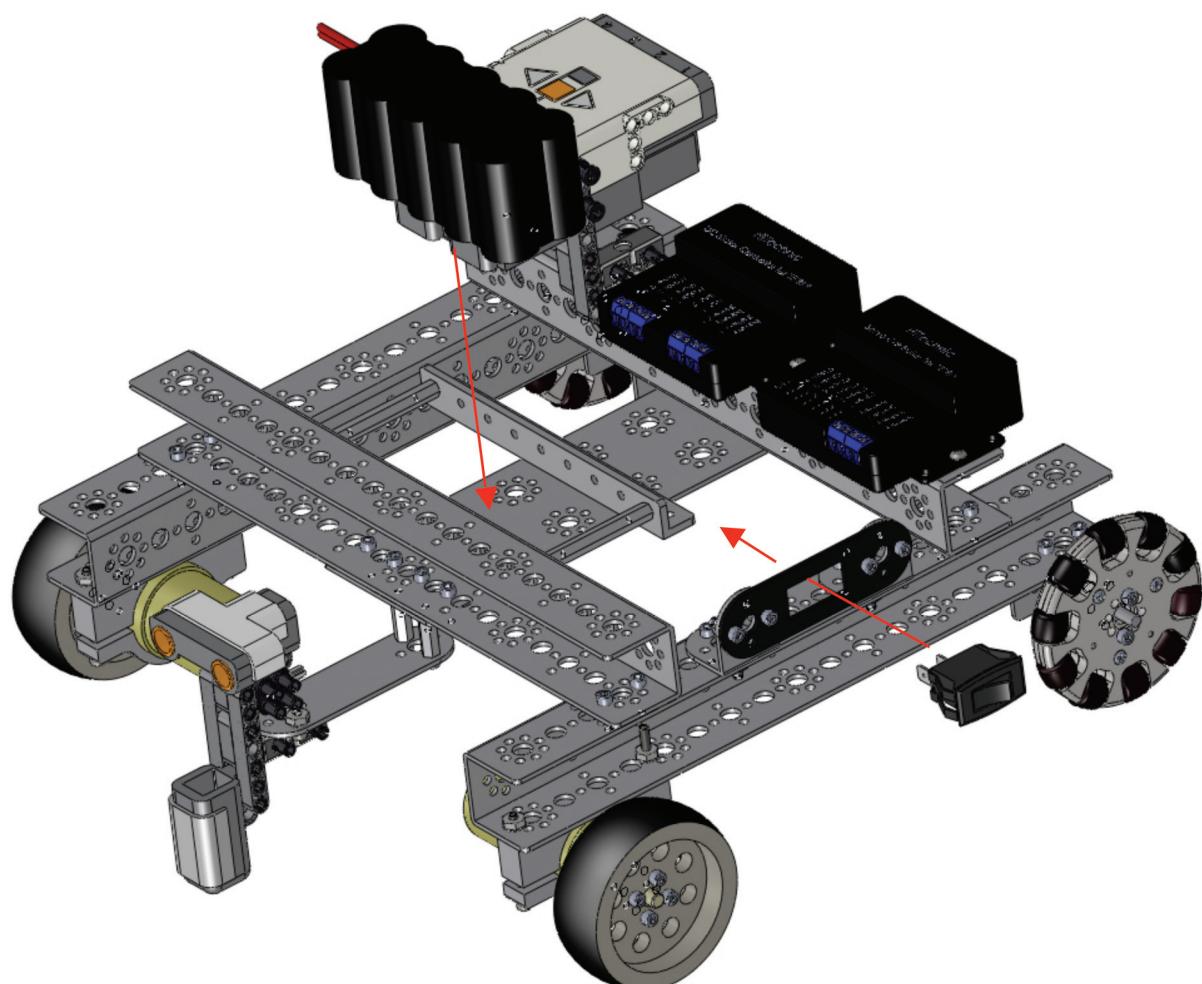
### Parts Needed



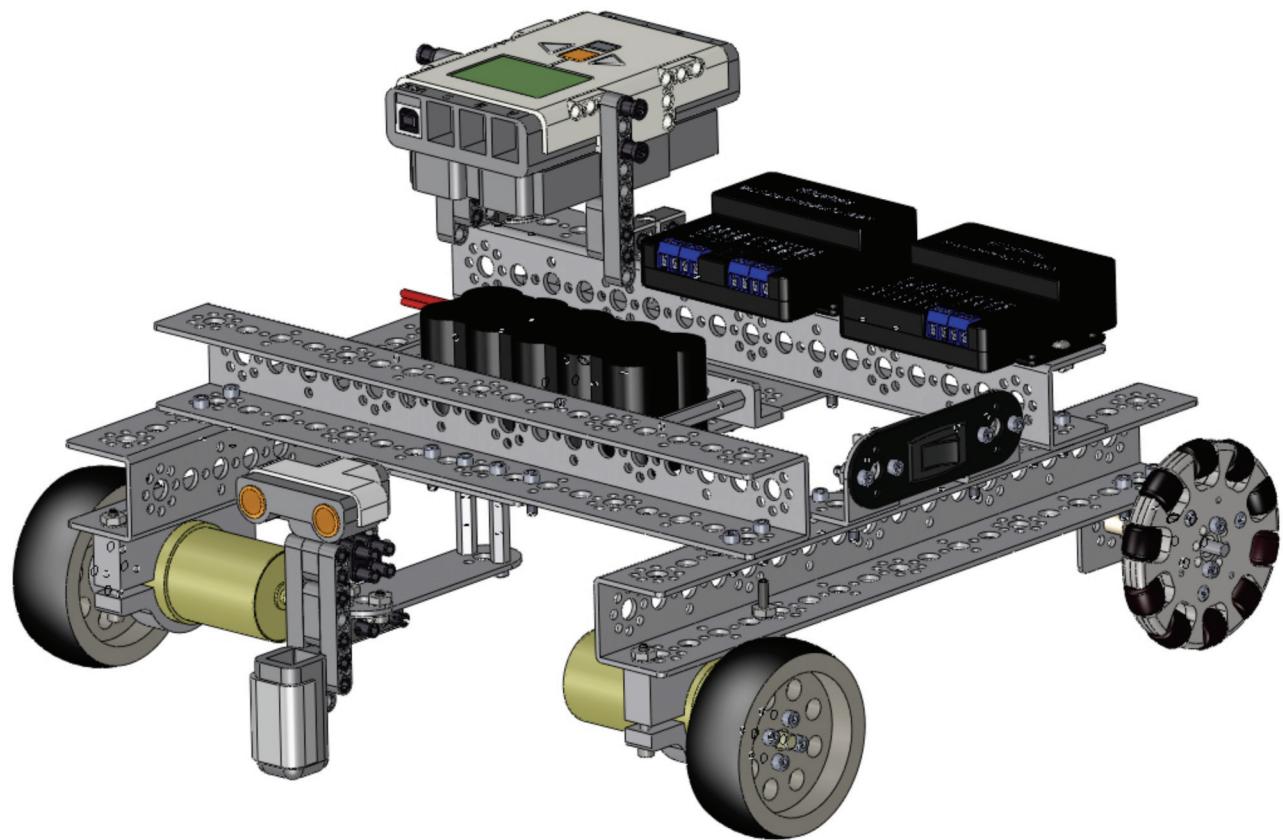
1x  
Battery Pack



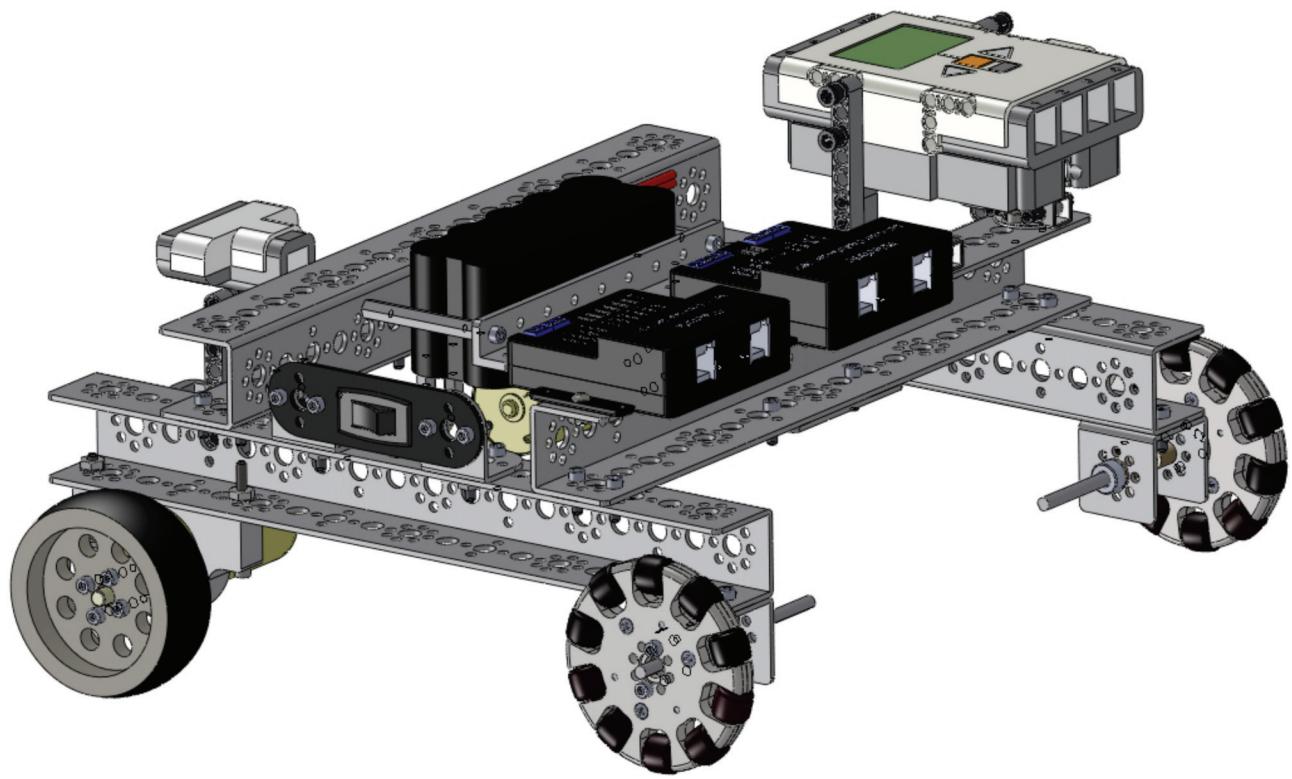
1x  
Switch Power Rocker



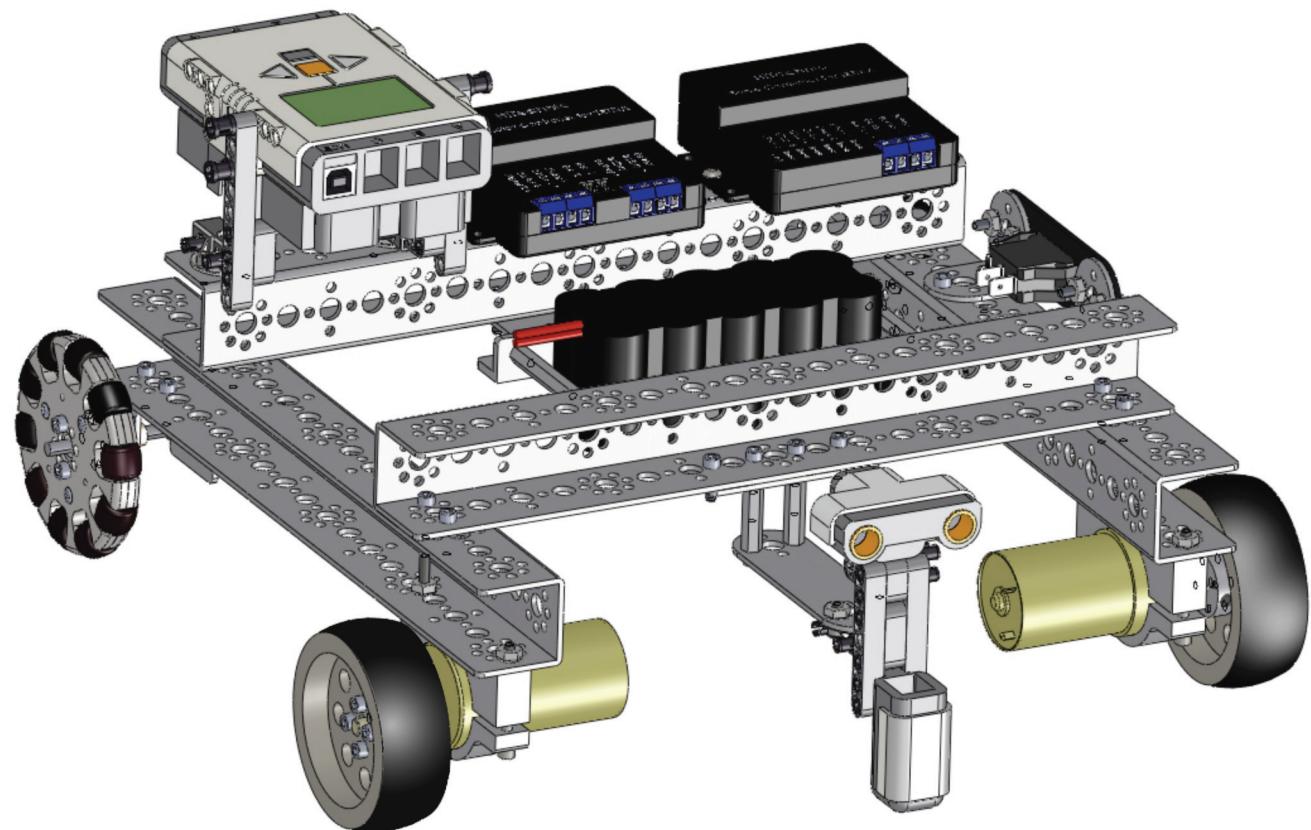
## TETRIX® Ranger View 1



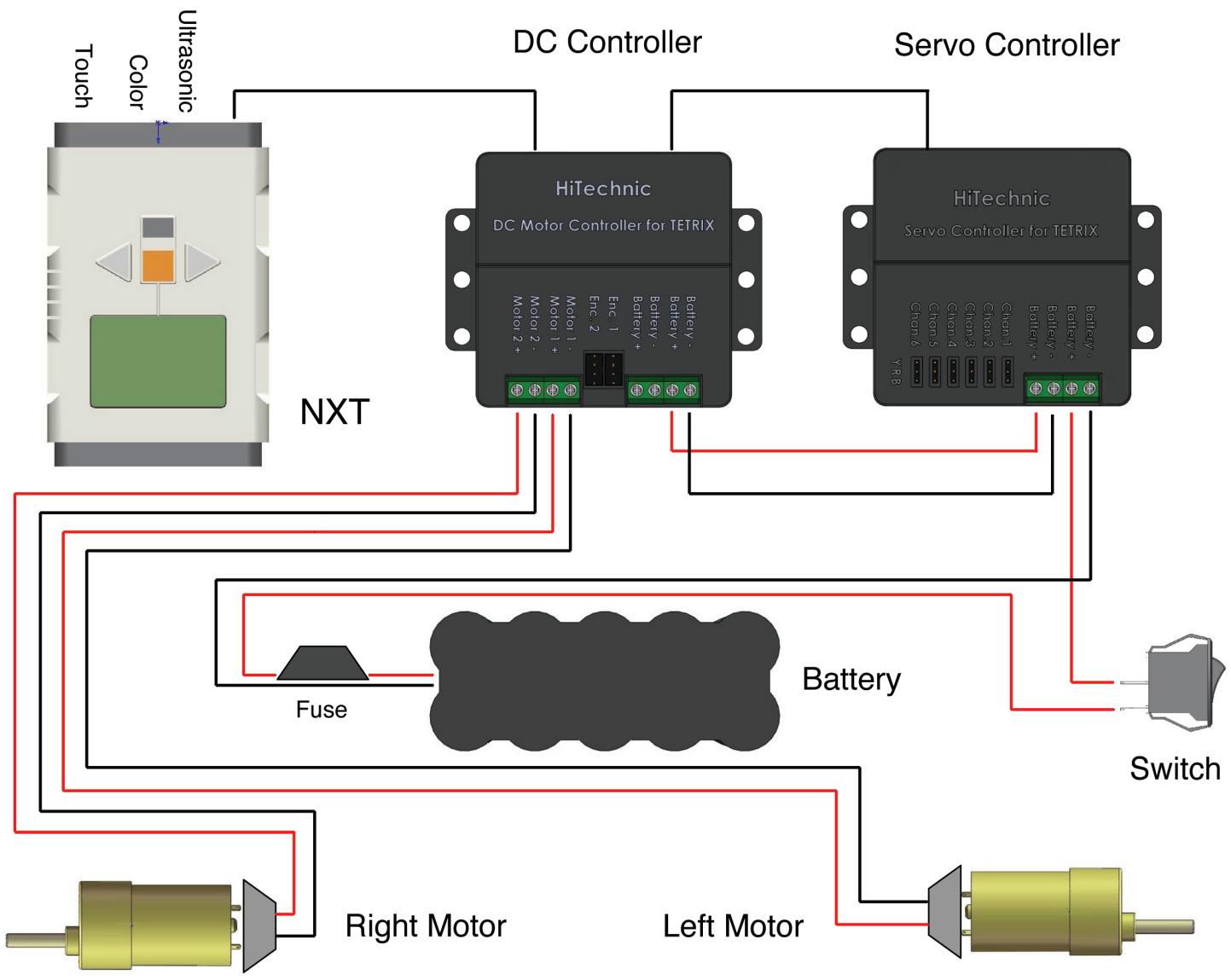
## TETRIX® Ranger View 2



## TETRIX® Ranger View 3



# TETRIX® Ranger Wiring Diagram



Ranger Wiring Diagram: 3.30.2011

