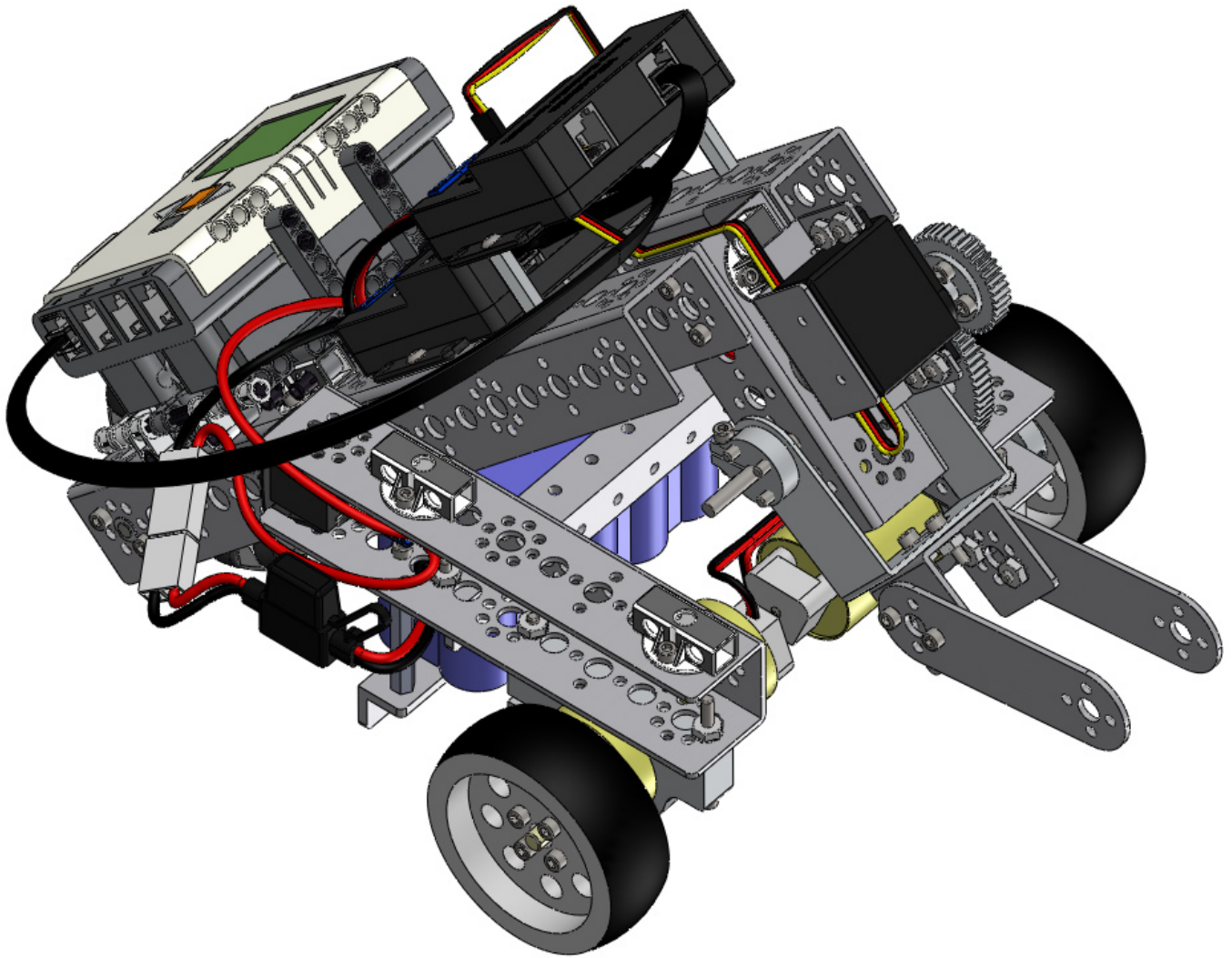


Building Instructions



TETRIX Mantis Robot Assembly

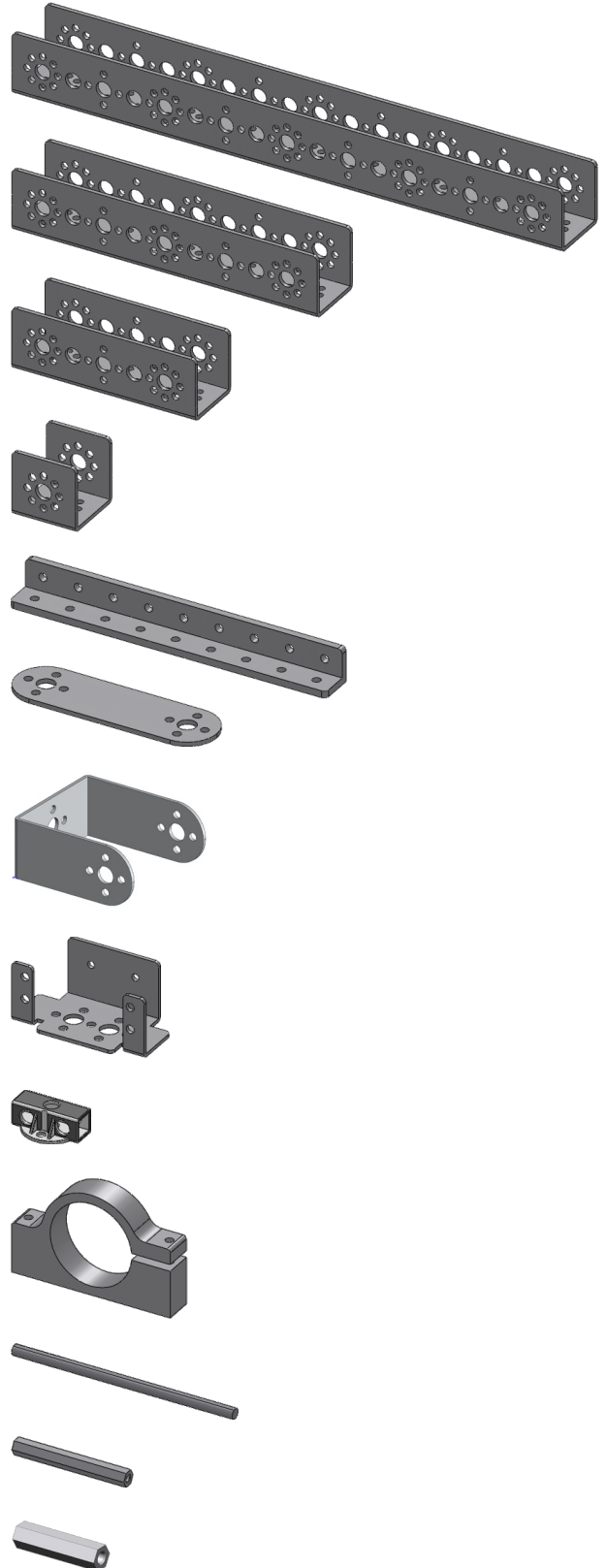
TETRIX Mantis Robot

Assembly

- 2x TETRIX Channel 288
- 2x TETRIX Channel 160
- 2x TETRIX Channel 96
- 1x TETRIX Channel 32
- 2x TETRIX Angle 144
- 2x TETRIX Bracket Flat
- 1x TETRIX Bracket Servo Pivot Multi
- 1x TETRIX Bracket Servo Single
- 8x TETRIX LEGO HPC
- 2x TETRIX DC Motor Mount
- 2x TETRIX Axle D-Shaft
- 2x TETRIX Standoff 2 inch
- 2x TETRIX Standoff 1 inch

A
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TETRIX Mantis Robot

Assembly

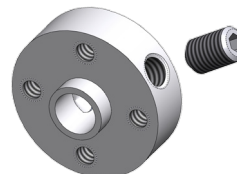
- 4x TETRIX Bronze Bushing
- 8x TETRIX Nylon Spacer Small
- 64x TETRIX Keps Nut 6-32
- 4x TETRIX Screw SHCS 6-32 x 1.5
- 4x TETRIX Screw SHCS 6-32 x 1.25
- 78x TETRIX Screw SHCS 6-32 x 0.5
- 8x TETRIX Screw BHCS 6-32 x 0.375
- 1x TETRIX Pan Cross Head
- 1x TETRIX Servo Metal Horn
- 2x TETRIX Hub Motor Shaft
- 4x TETRIX Hub Split Clamp
- 4x TETRIX Axle Hub

N
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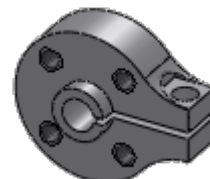
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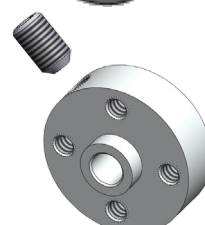
W



X



Y



TETRIX Mantis Robot

Assembly

1x TETRIX Hub Spacer

1x TETRIX Gear 40

1x TETRIX Gear 80

2x TETRIX Wheel 76mm 3 inch

2x TETRIX Omni Wheel

Z

AA

BB

CC

DD

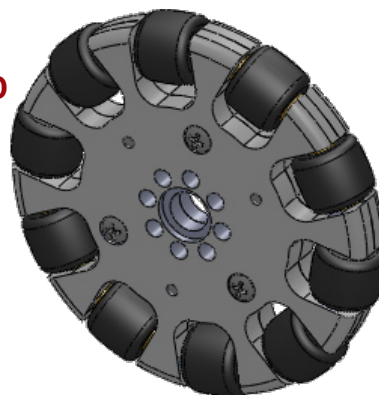
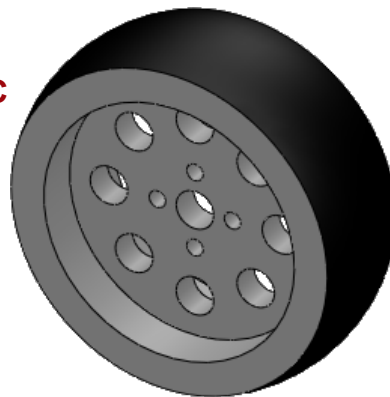
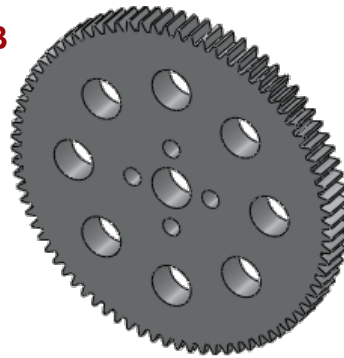
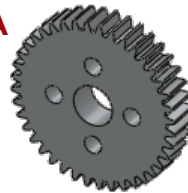
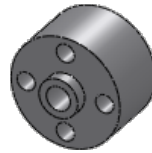
Z

AA

BB

CC

DD



TETRIX Mantis Robot

Assembly

- 2x TETRIX DC Motor
- 1x TETRIX DC Motor Controller
- 1x TETRIX Servo Controller
- 1x TETRIX Servo
- 1x TETRIX Power Switch
- 1x TETRIX Battery Pack

EE

FF

GG

HH

II

JJ

EE

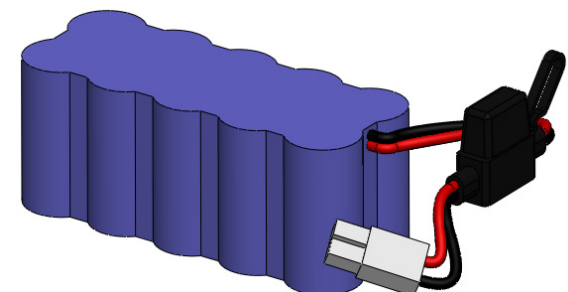
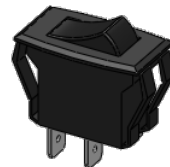
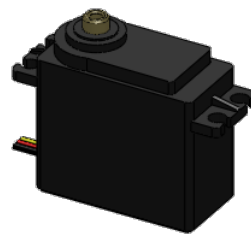
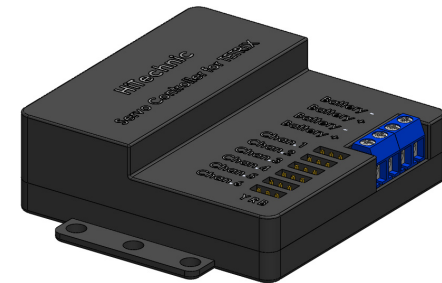
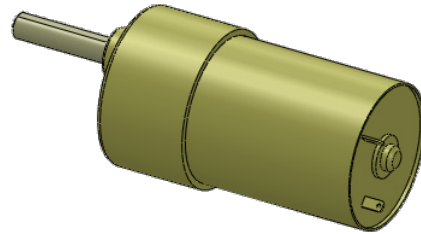
FF

GG

HH

II

JJ



TETRIX Mantis Robot

Assembly

1x TECHNIC Beam 15
2x TECHNIC Beam 11
2x TECHNIC Beam 7
3x TECHNIC Beam 5
1x TECHNIC Angle Beam
2x TECHNIC Angle Beam 5 by 3
2x TECHNIC Axle 10
1x TECHNIC Axle 5
3x TECHNIC Axle 3
4x TECHNIC Bushing
23x TECHNIC Pin with Friction
18x TECHNIC Pin Long with Friction
2x TECHNIC Connector 3W

KK

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MM

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SS

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VV

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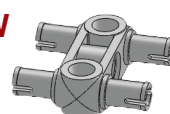
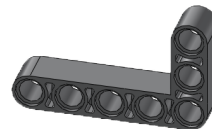
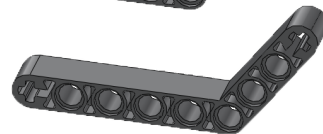
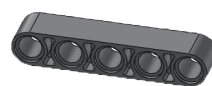
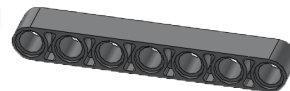
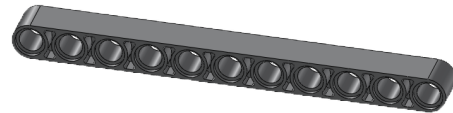
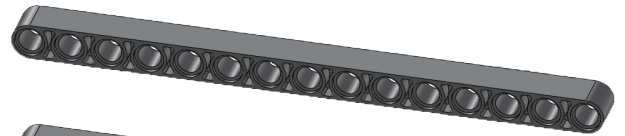
SS

TT

UU

VV

WW



TETRIX Mantis Robot

Assembly

1x LEGO NXT with Battery

XX

XX

2x TECHNIC Crossblock

YY

YY

8x TECHNIC Crossblock 2

ZZ

2x TECHNIC Crossblock 3

AAA

4x TECHNIC Crossblock Black

BBB

YY

1x TETRIX Allen Wrench

CCC



1x Jewelers Flathead Screwdriver

DDD

ZZ



2x LEGO NXT Wire

EEE

AAA



1x Red Wire

FFF

1x Black Wire

GGG

BBB



1x Battery Connector Wire

HHH

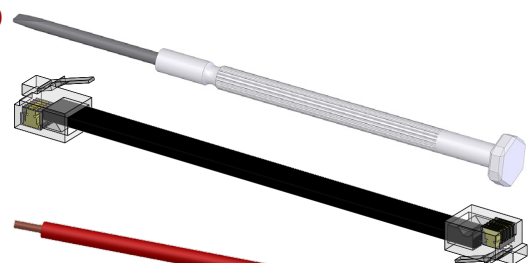
CCC



1x Switch Power Wire

III

DDD



2x Motor Wires

JJJ

EEE



FFF



GGG



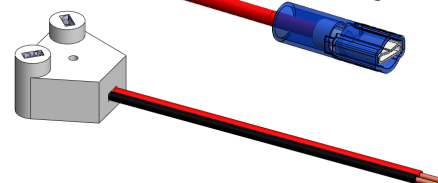
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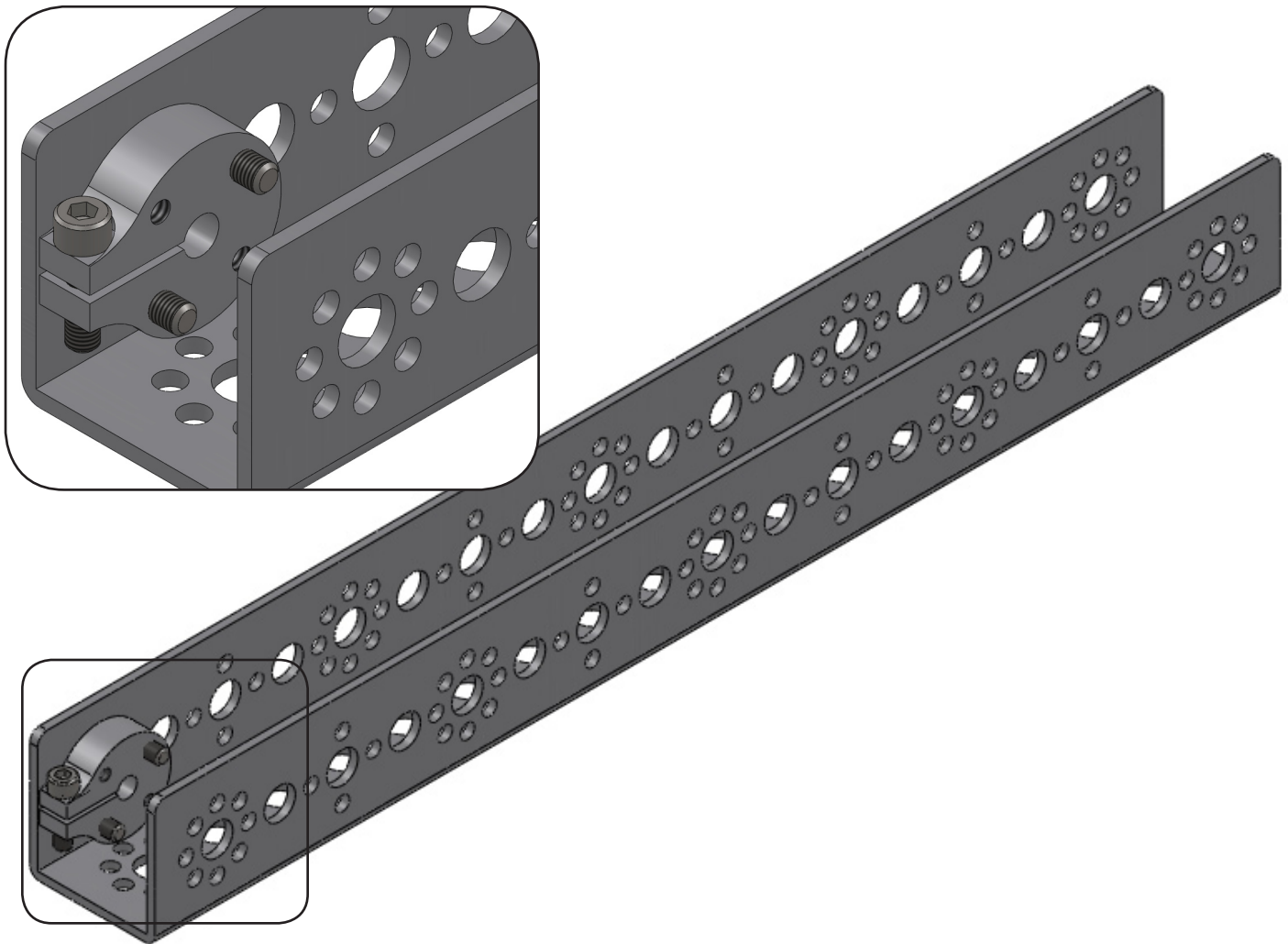
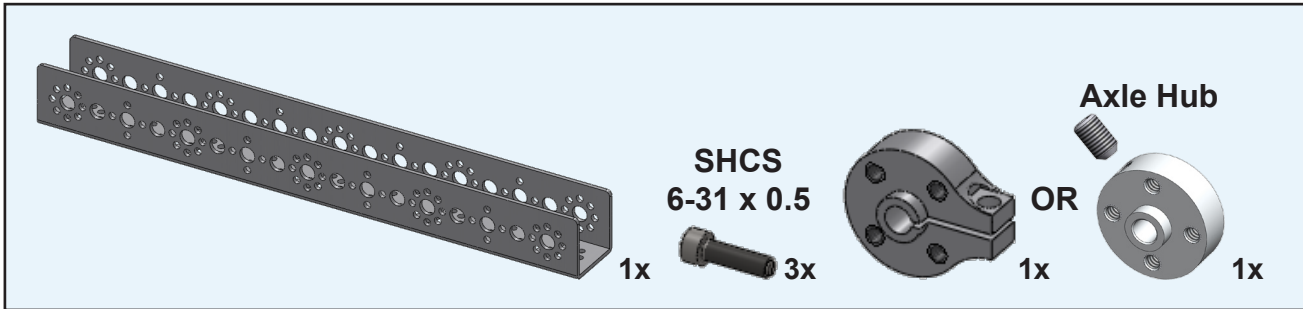
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JJJ



1



2

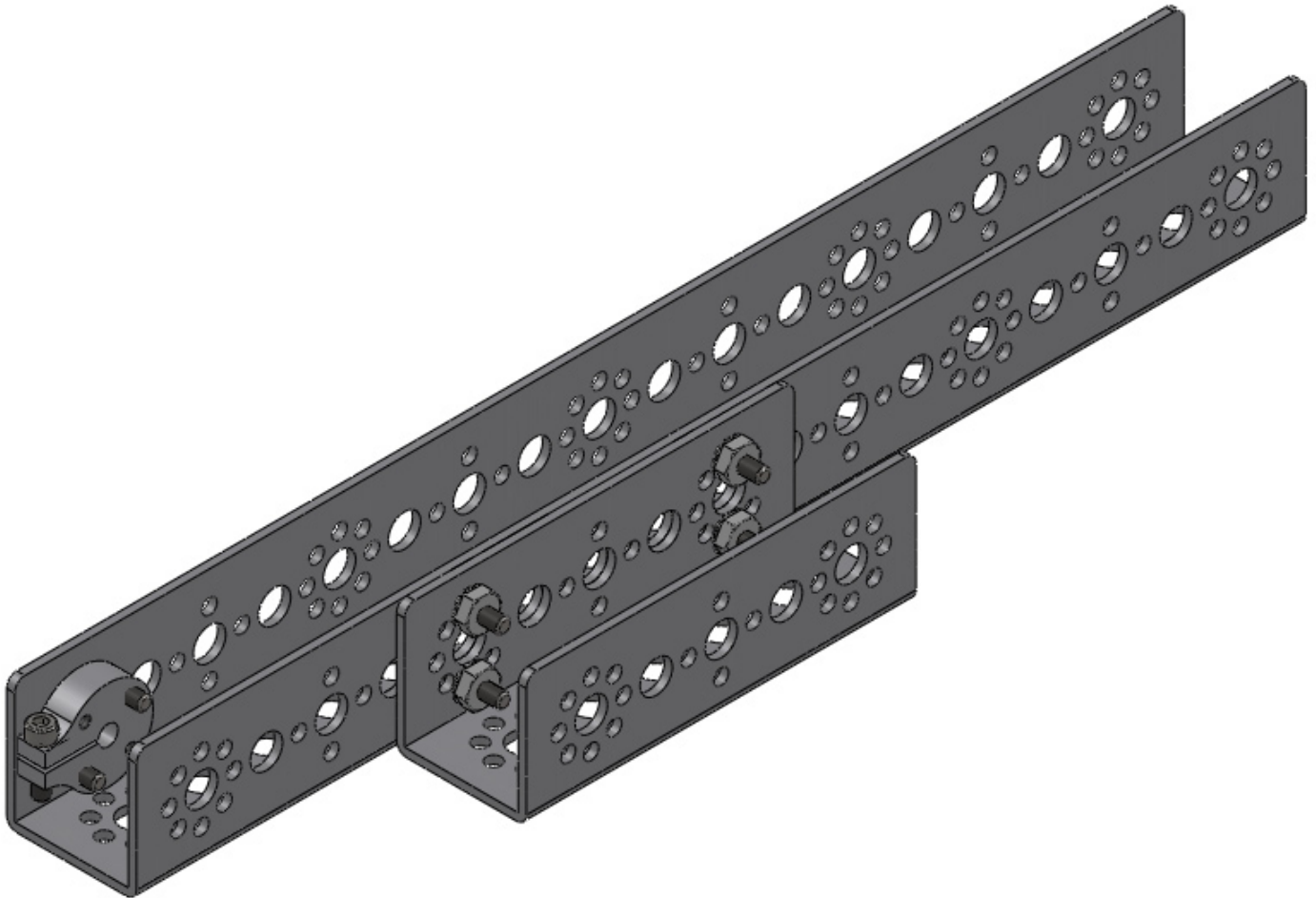
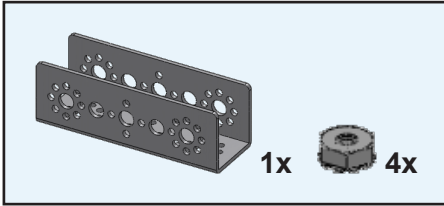
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6-31 x 0.5



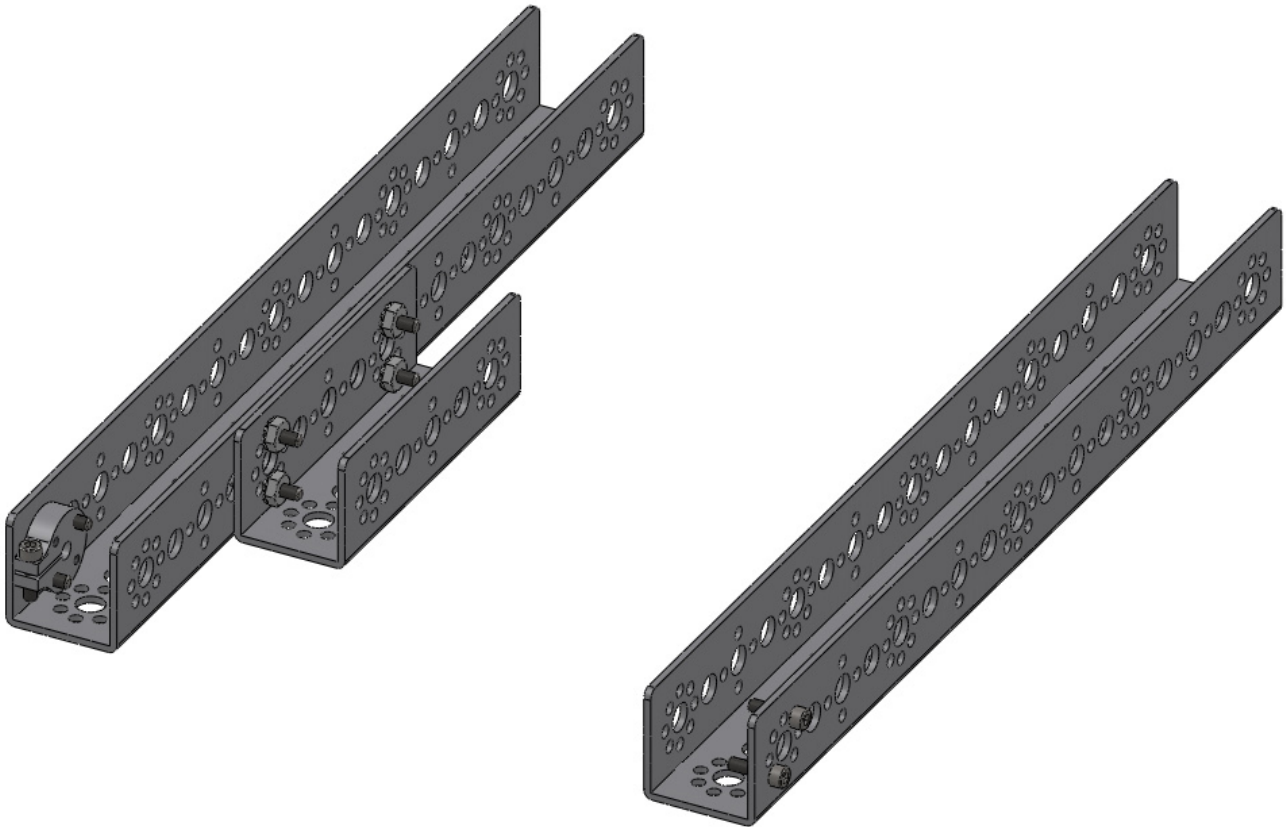
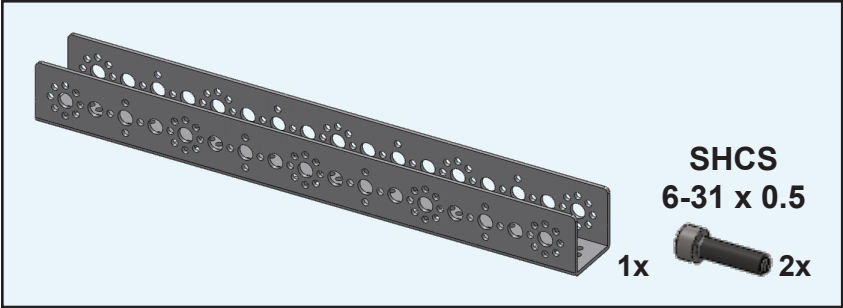
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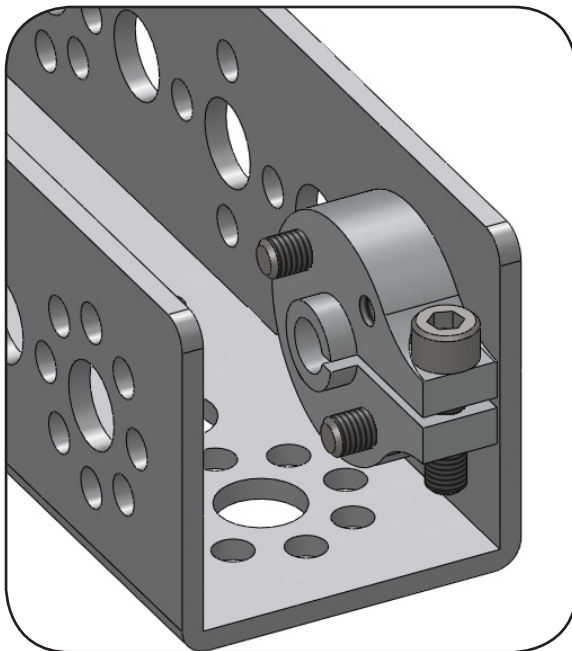
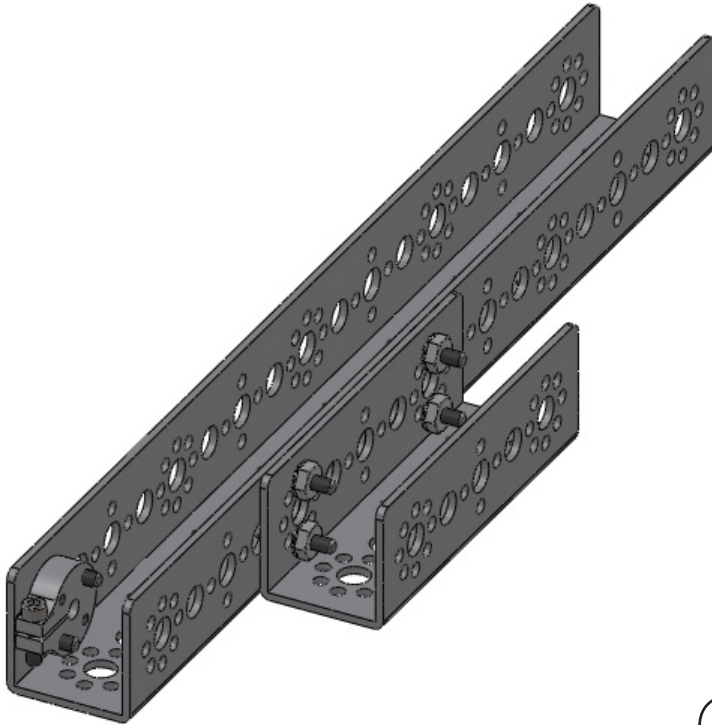
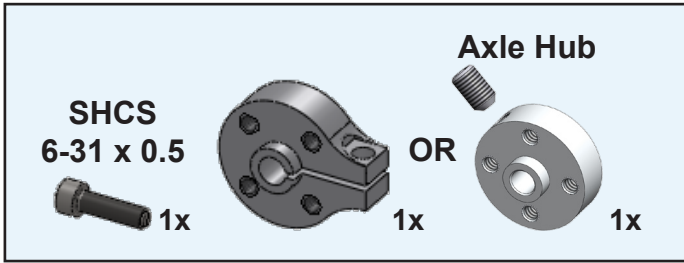
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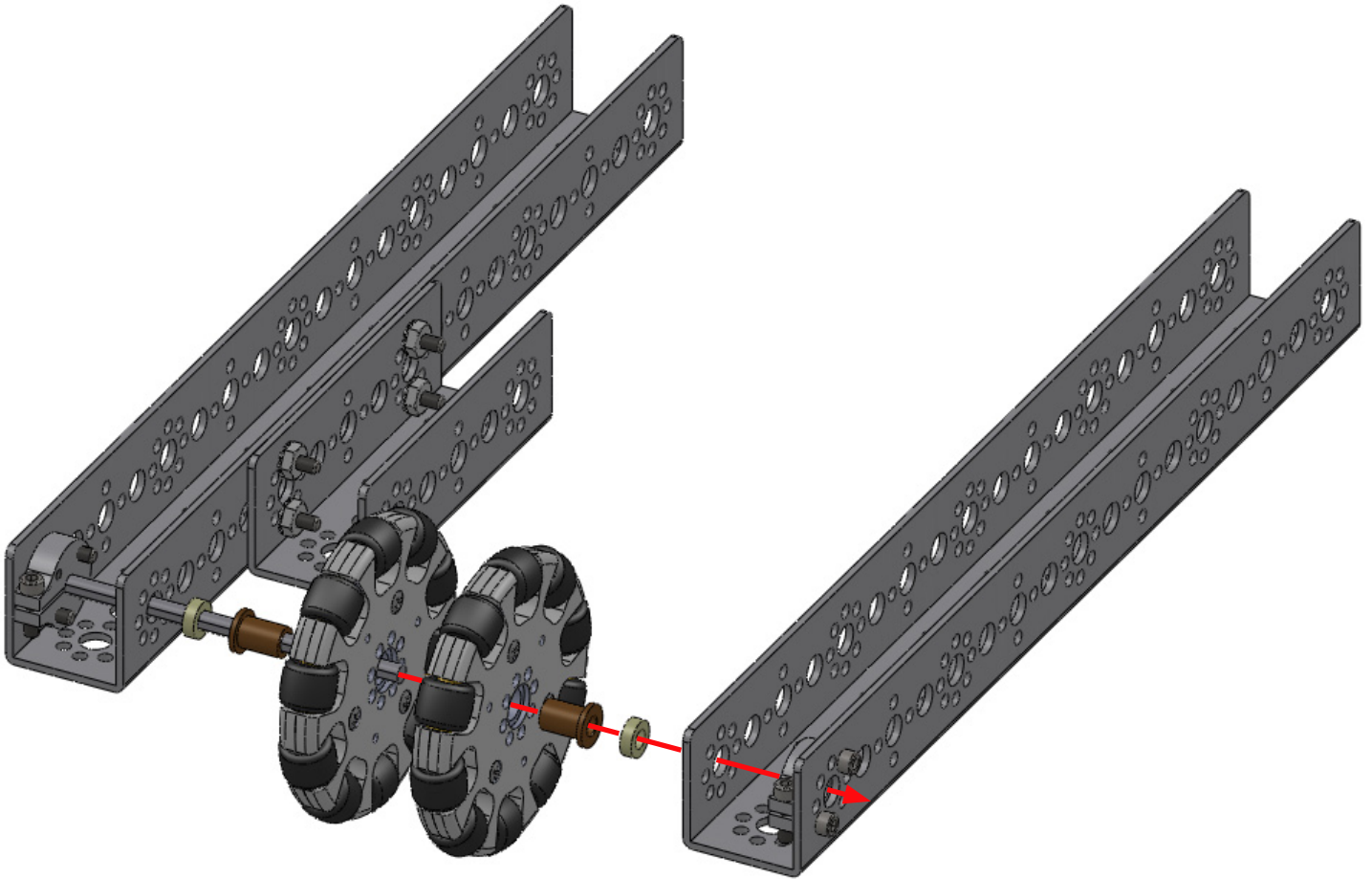
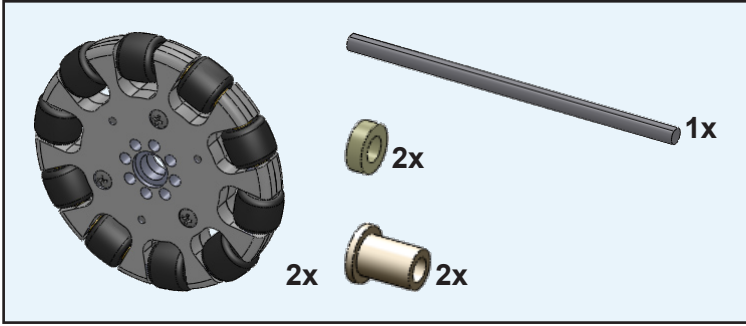
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6



7

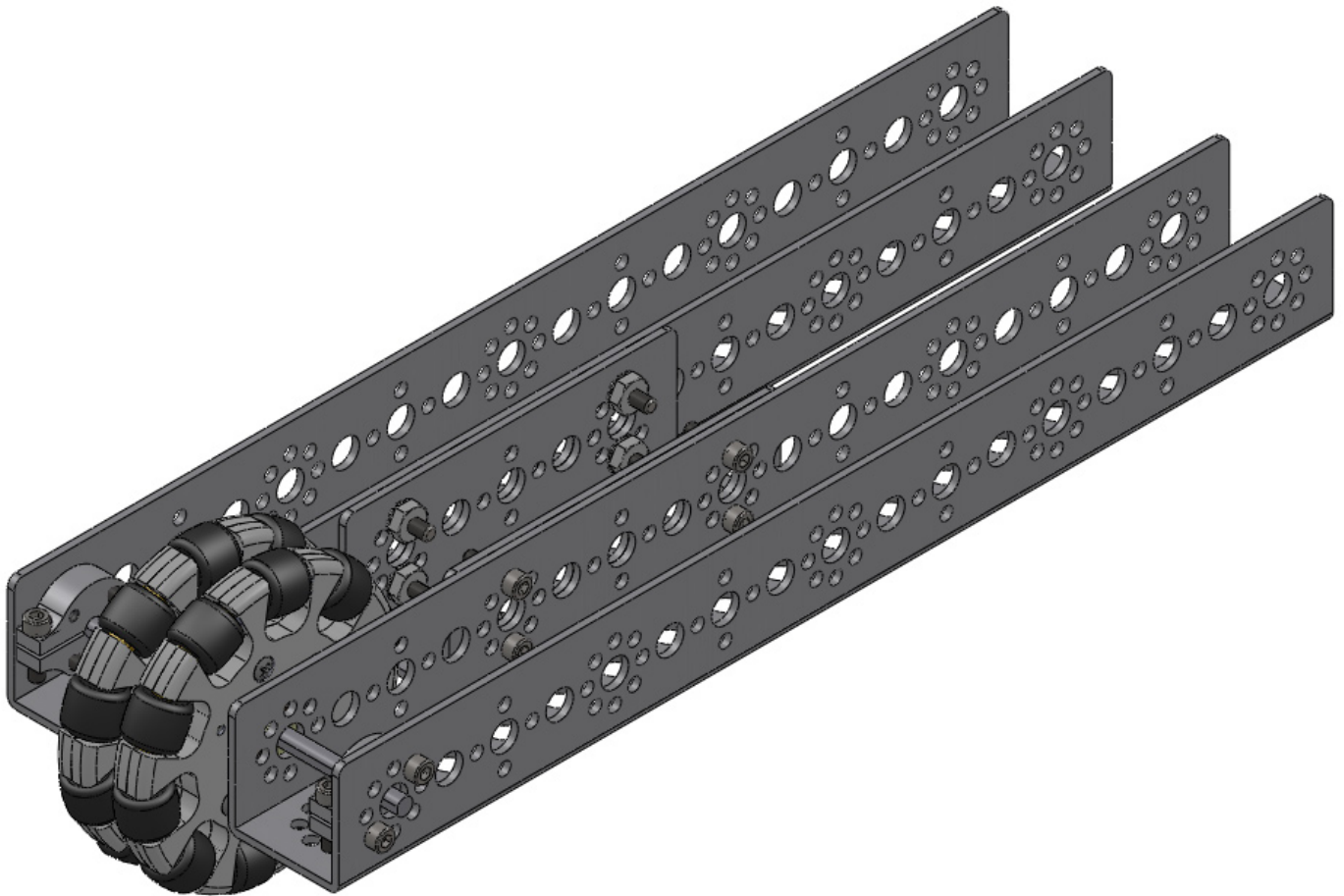
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6-31 x 0.5



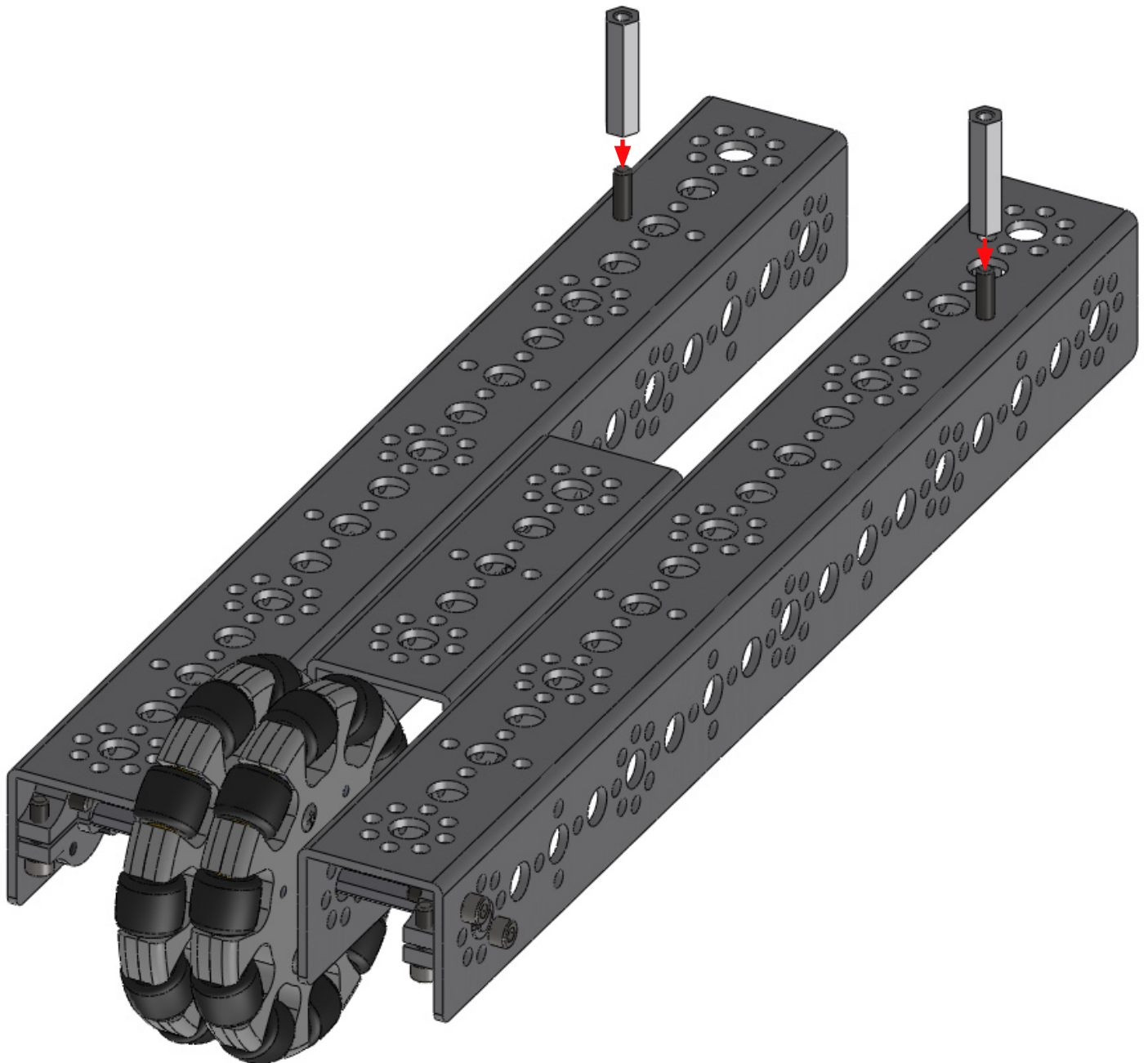
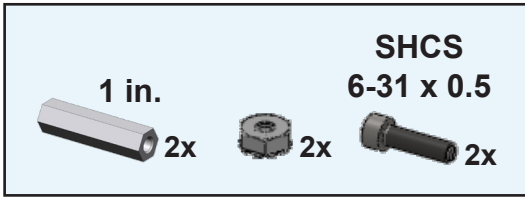
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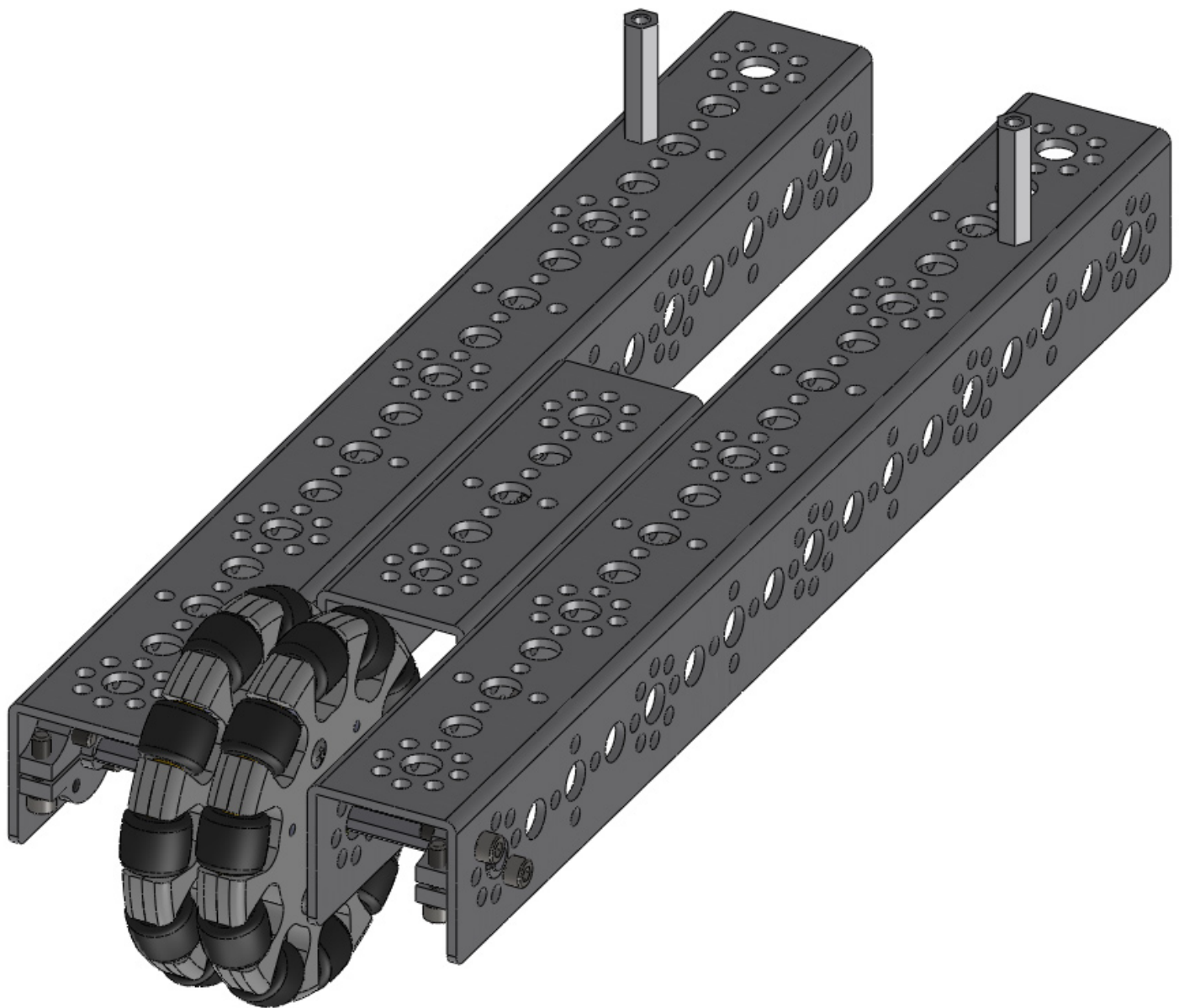


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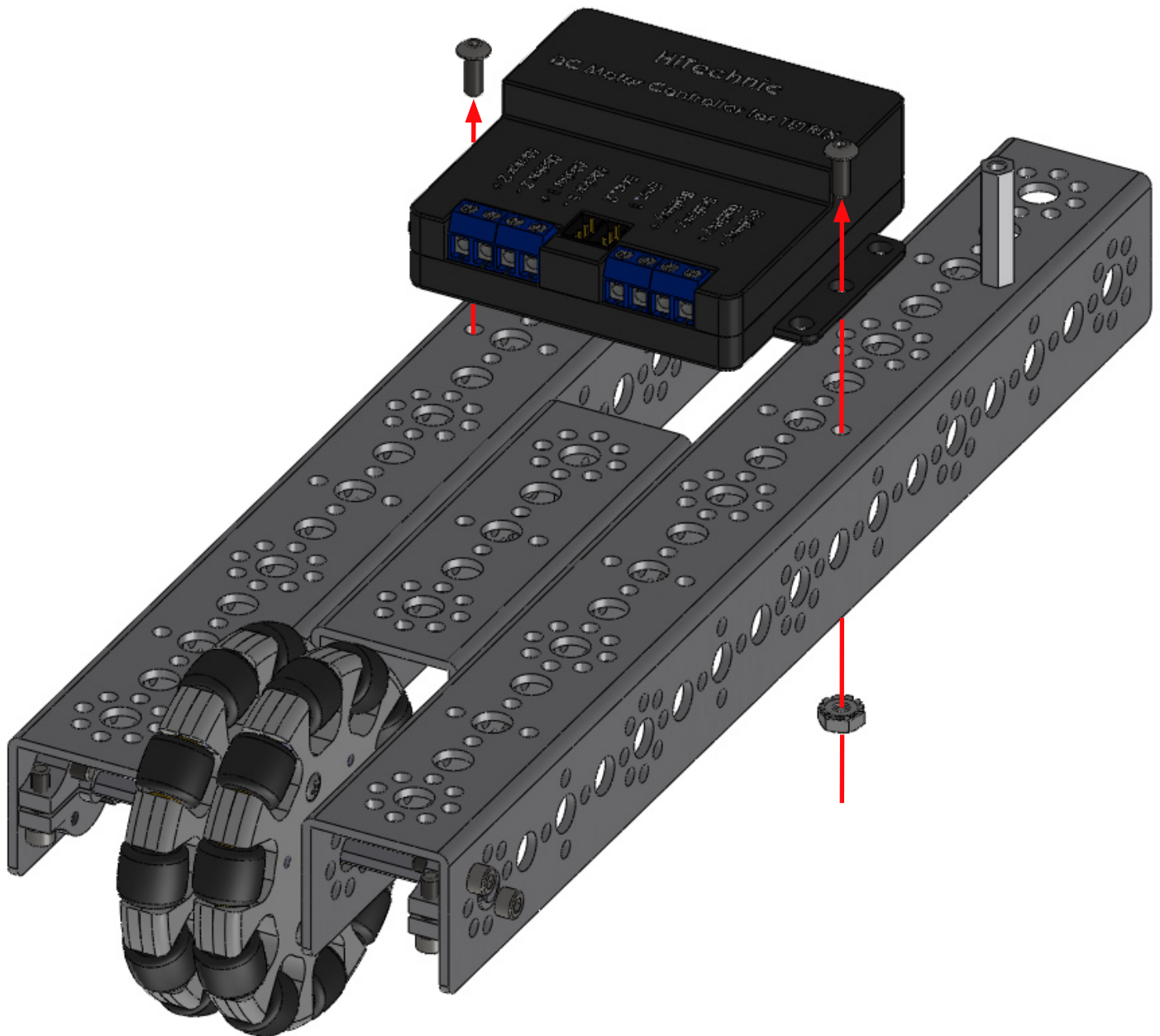
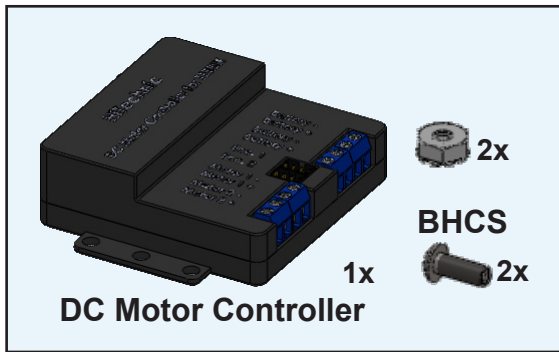


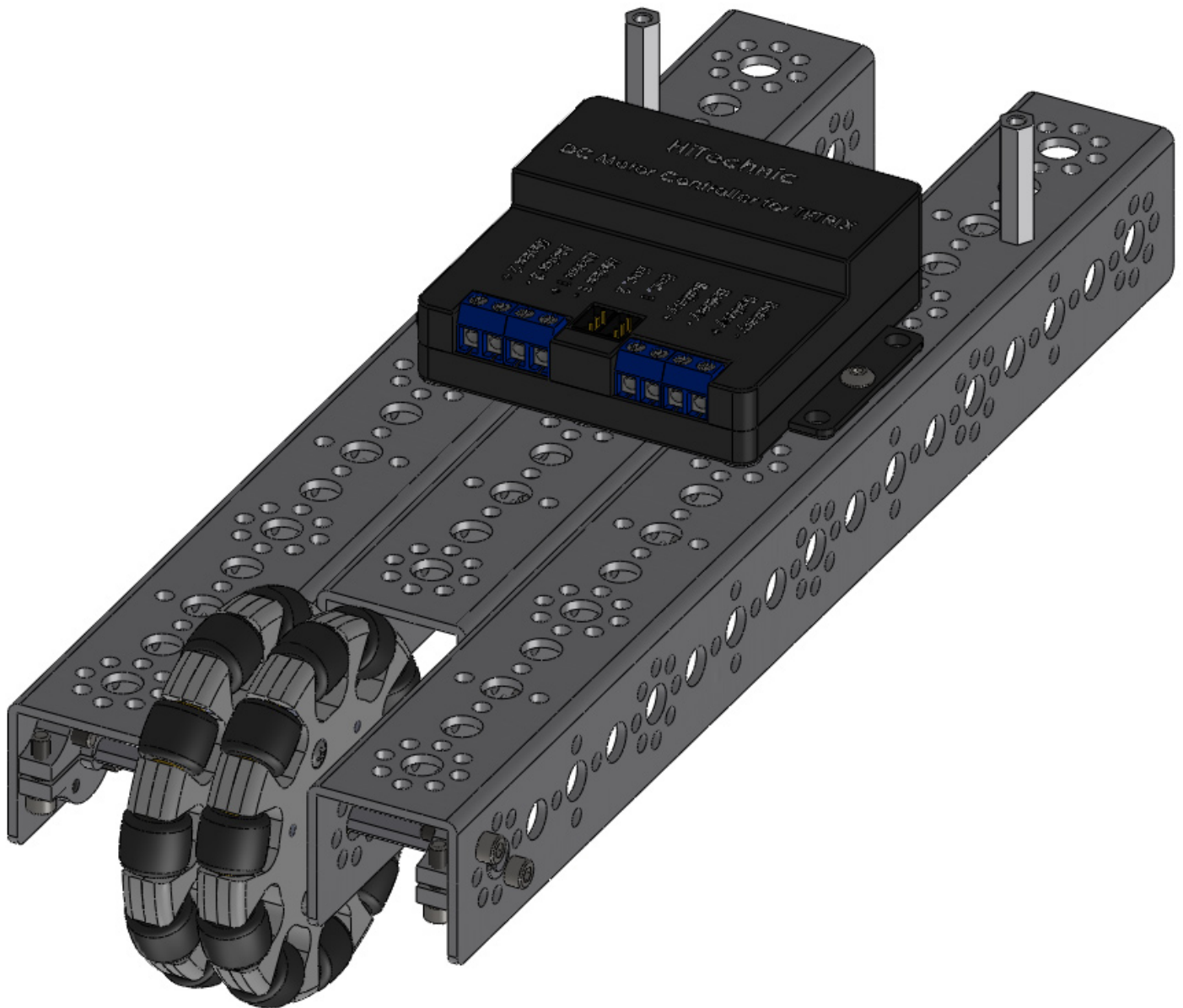
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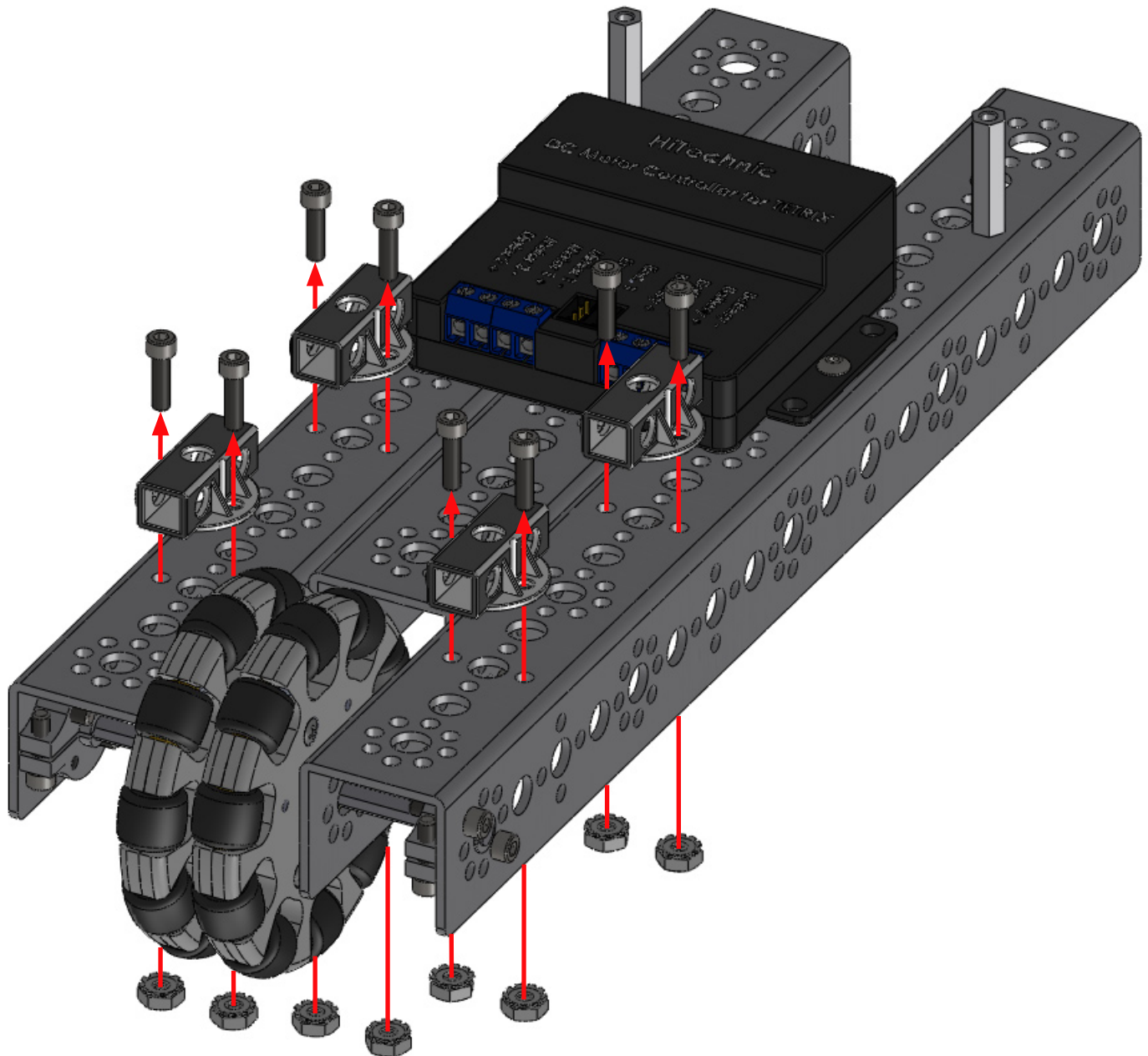
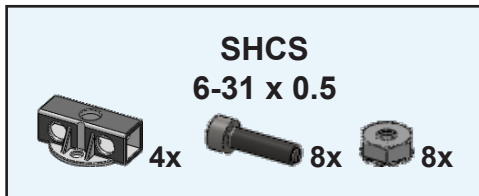


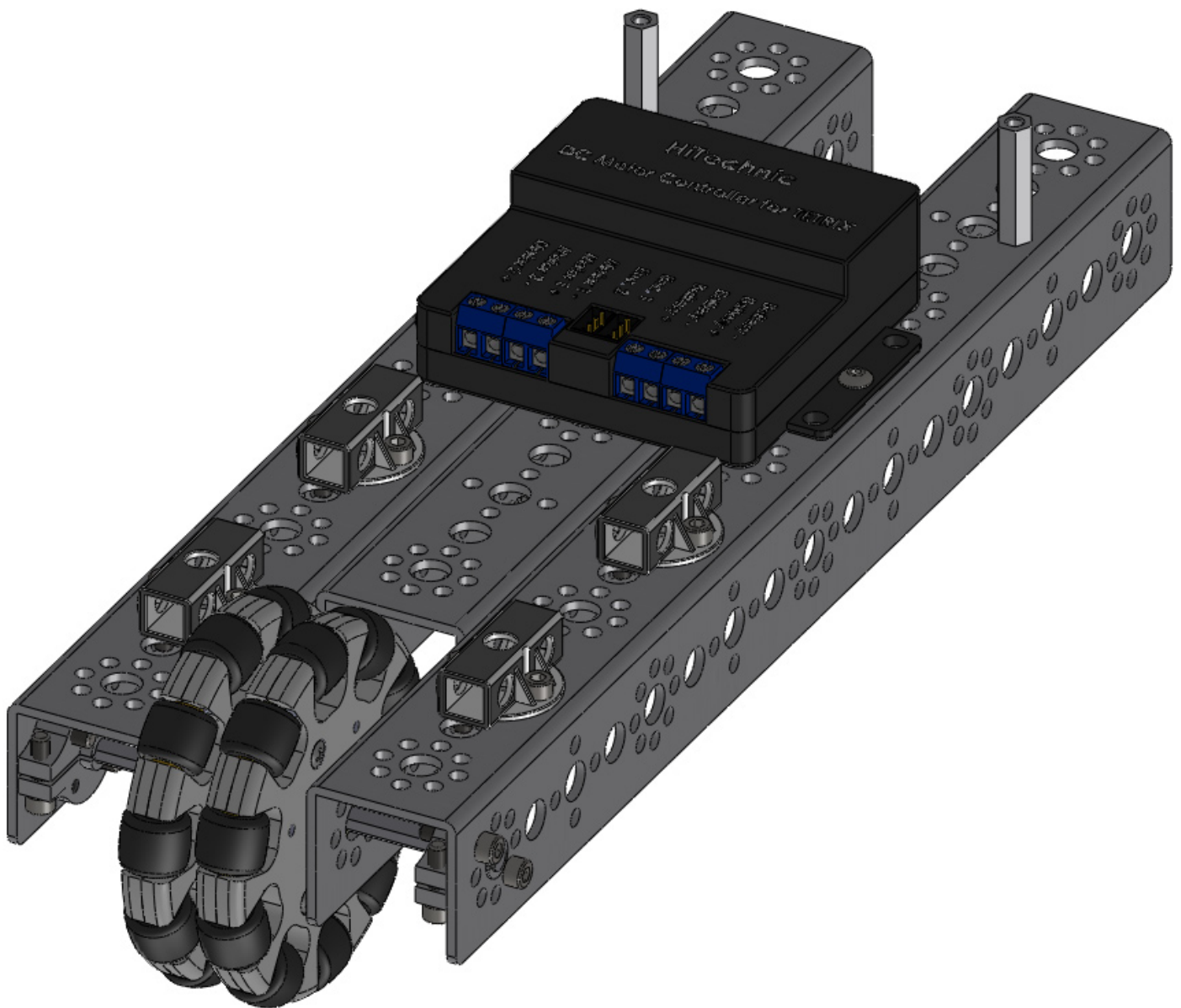
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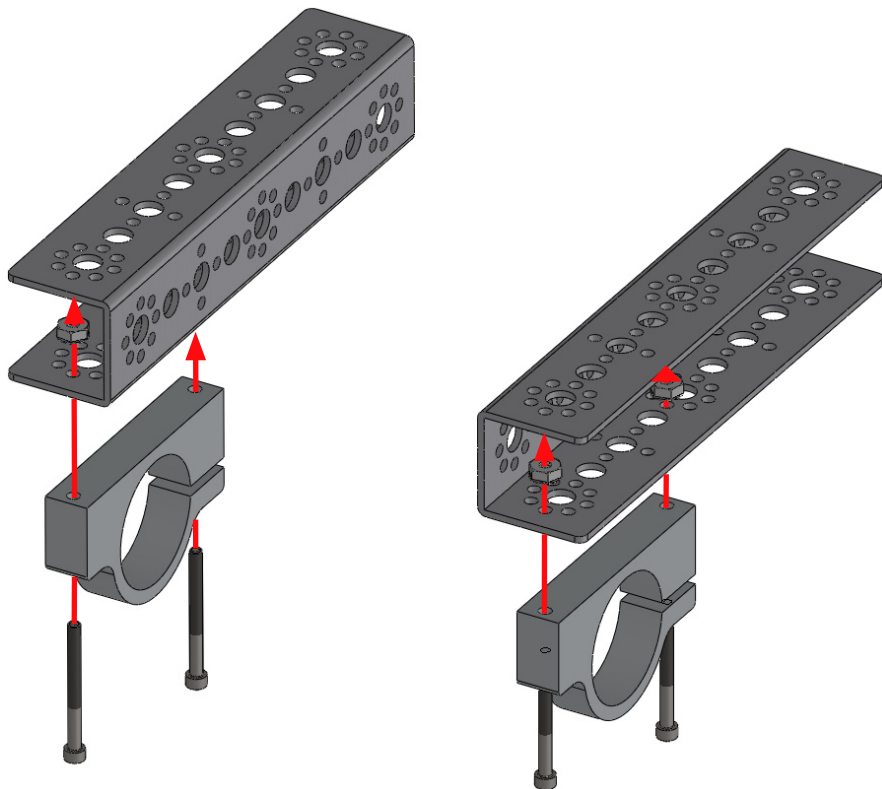
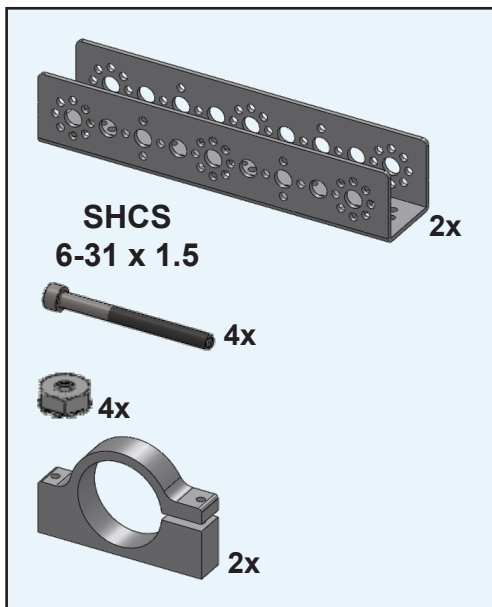


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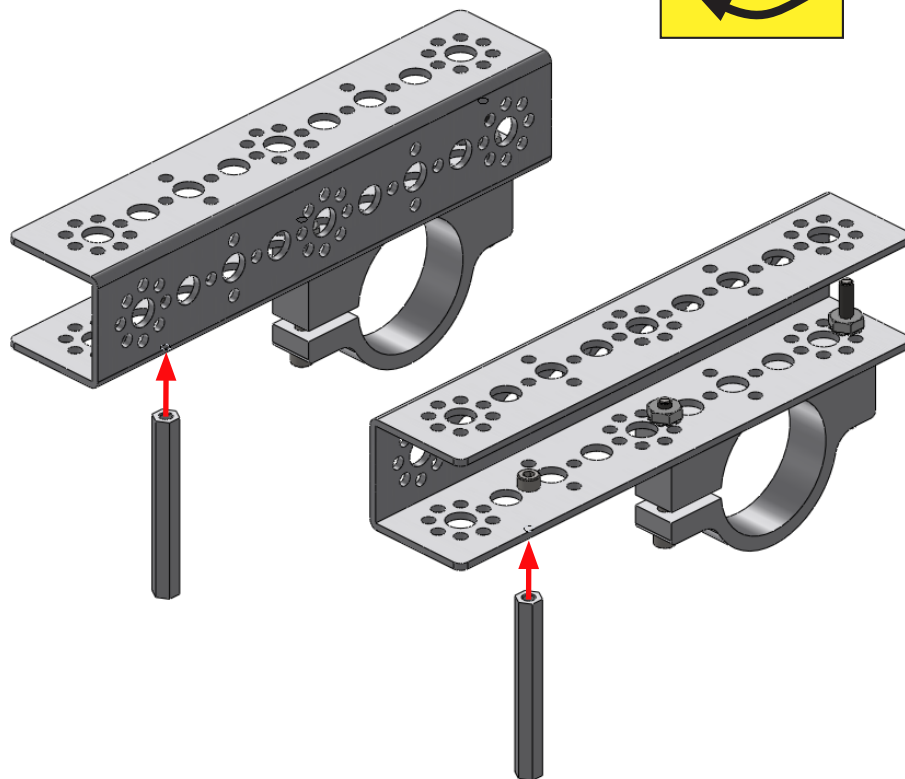
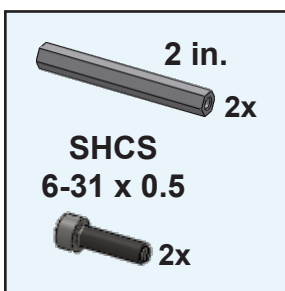




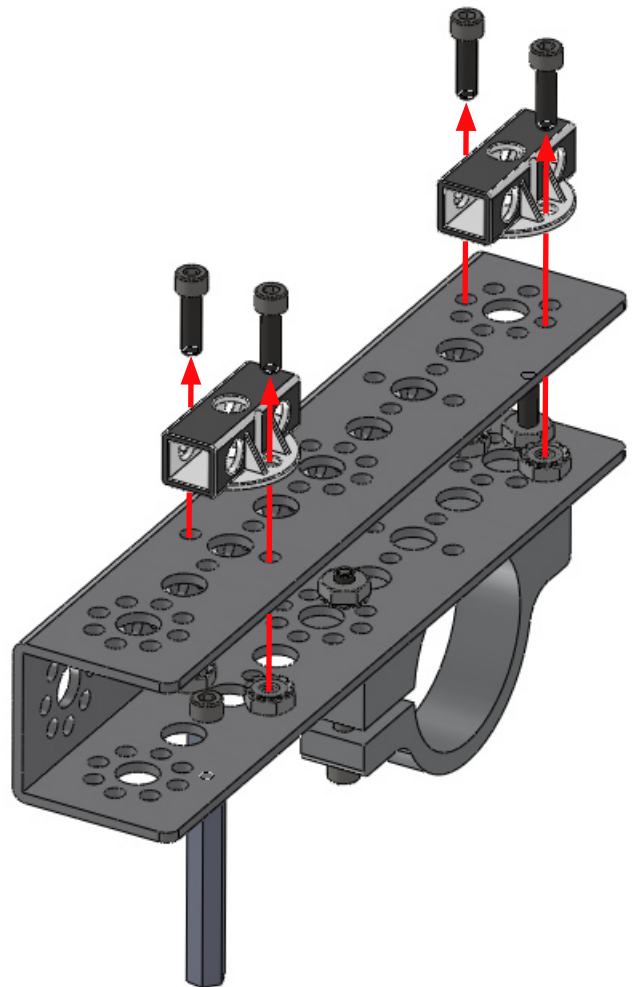
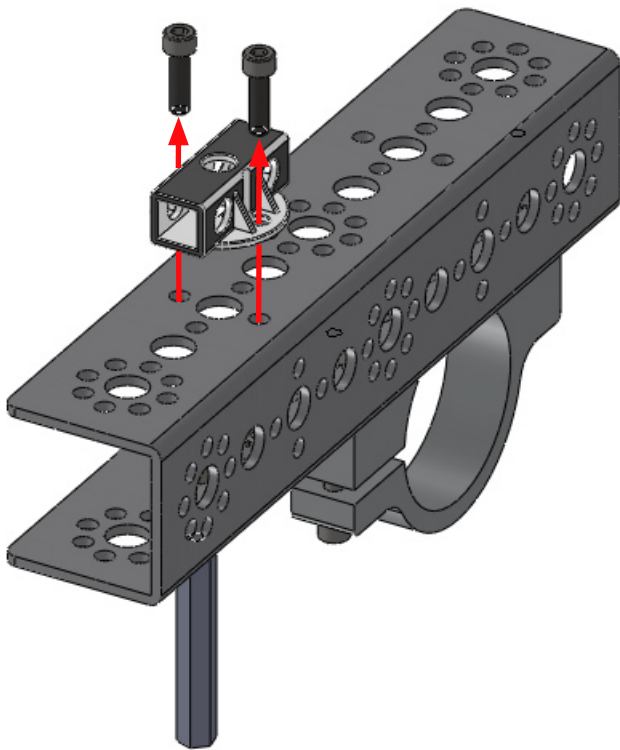
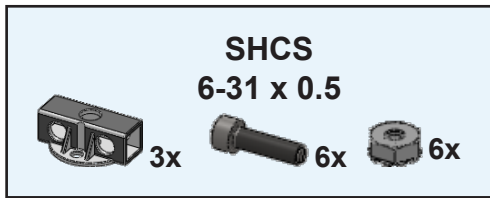
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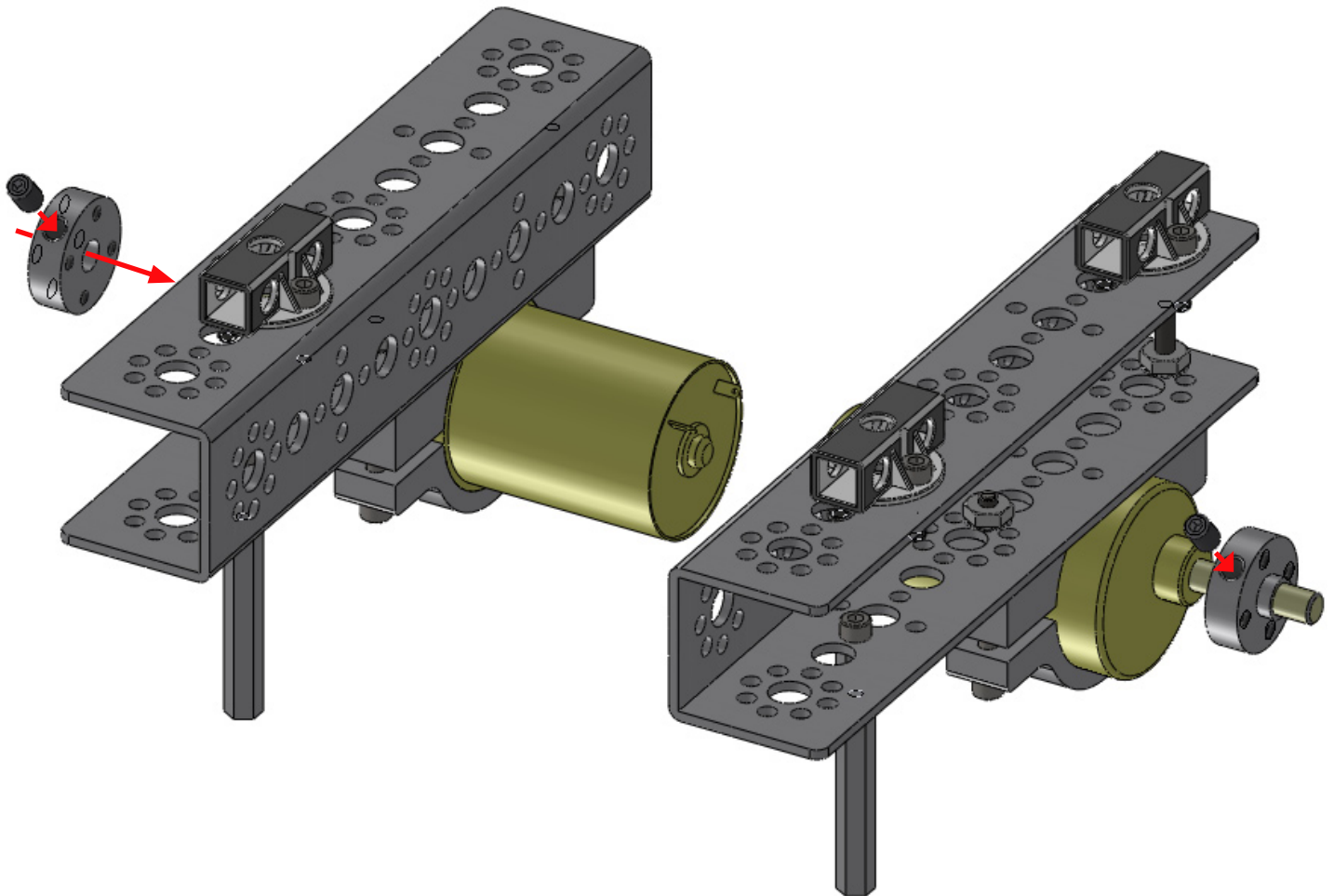
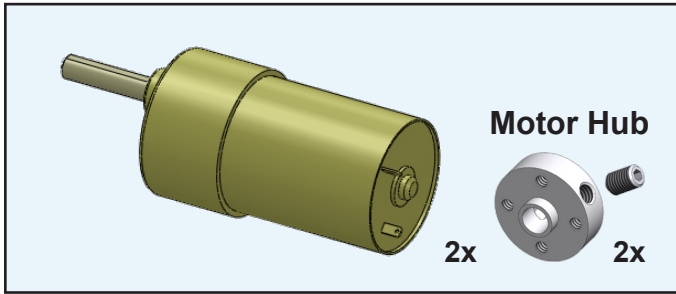


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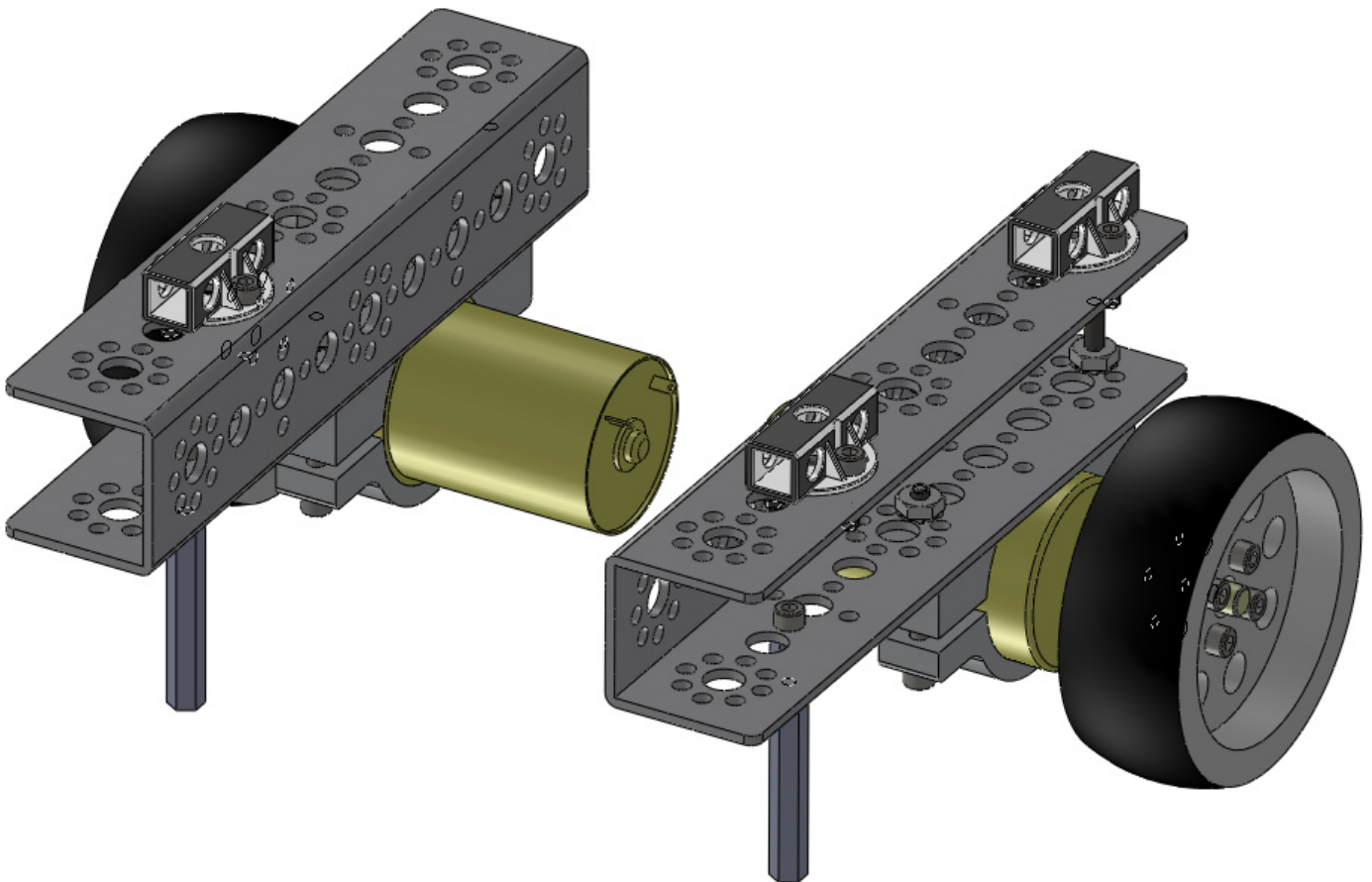
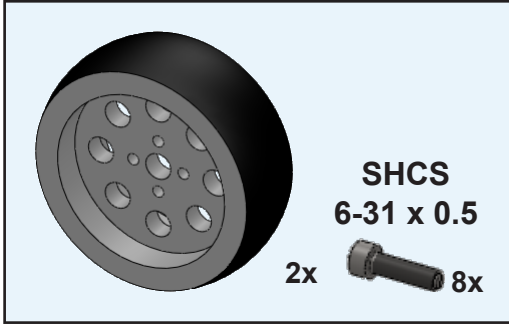


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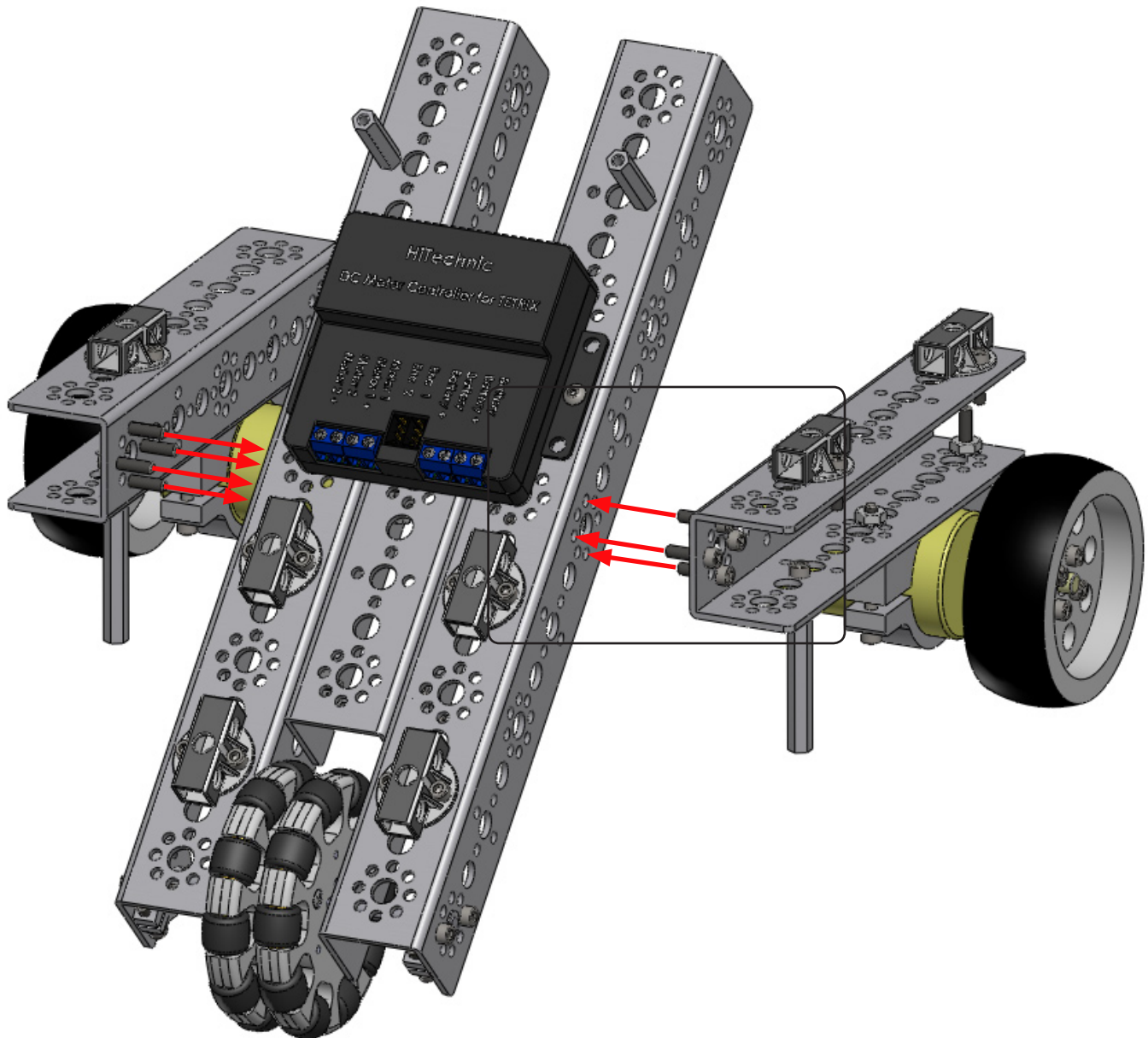
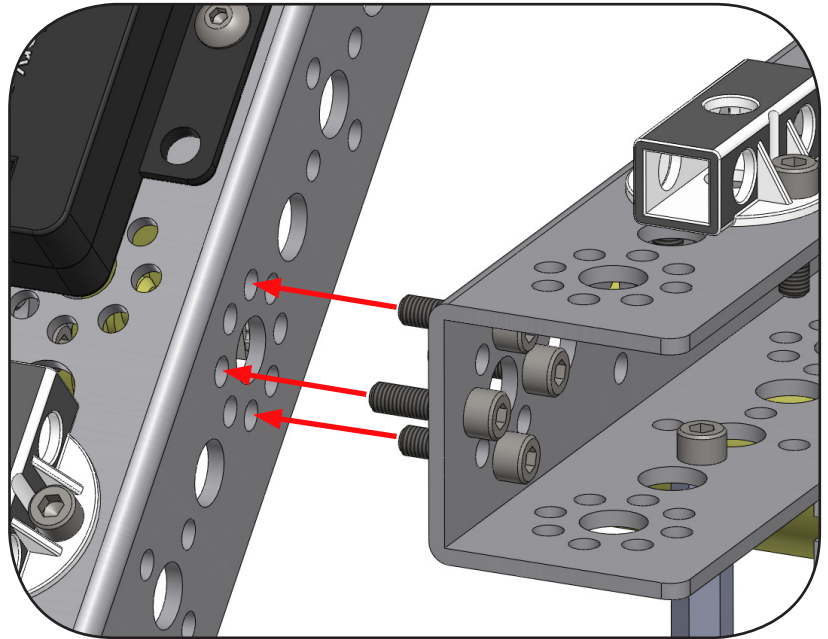
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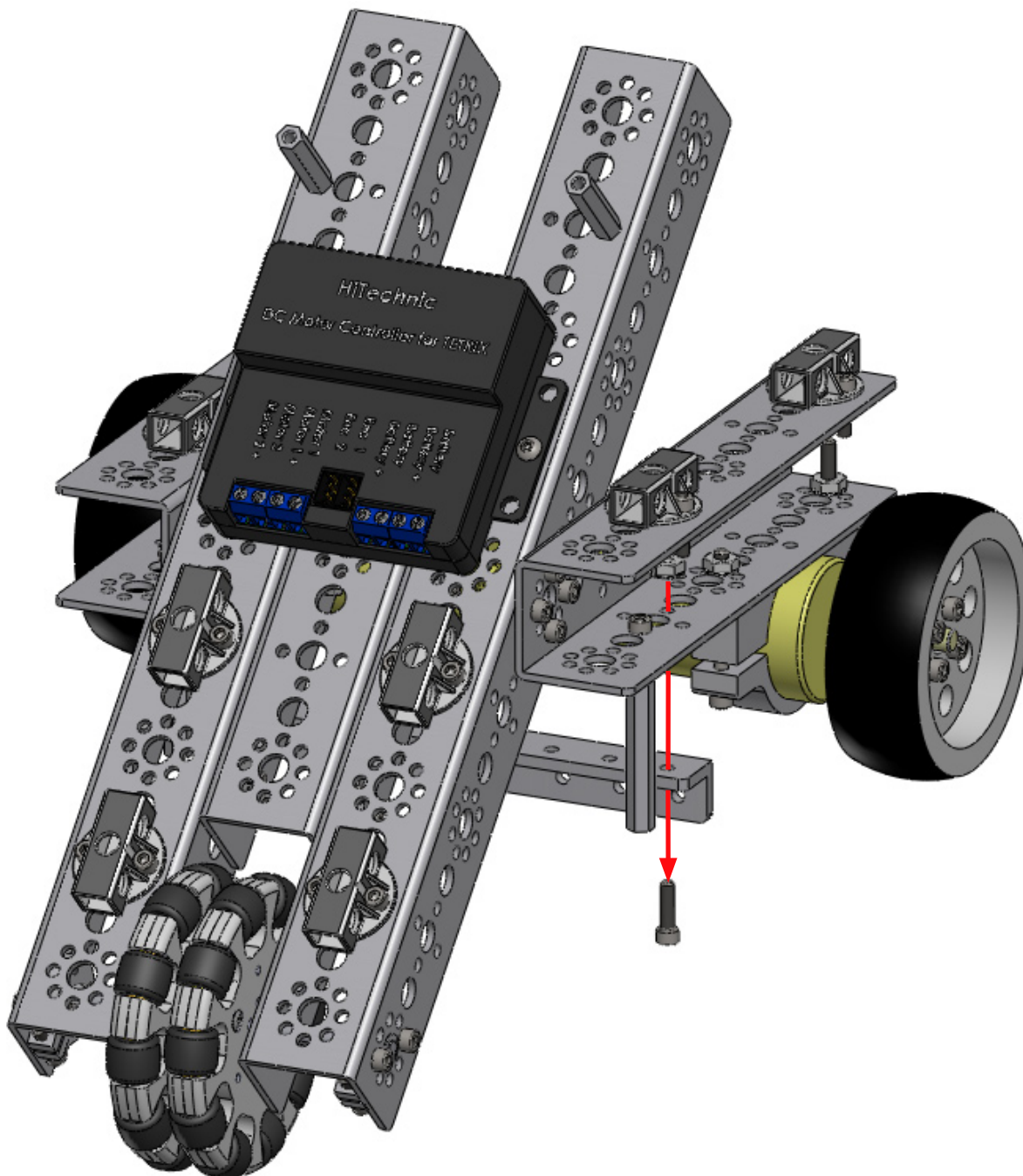
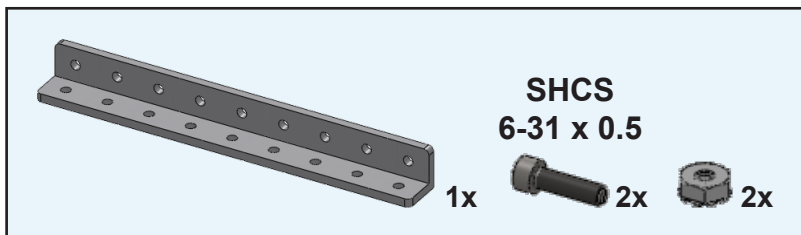


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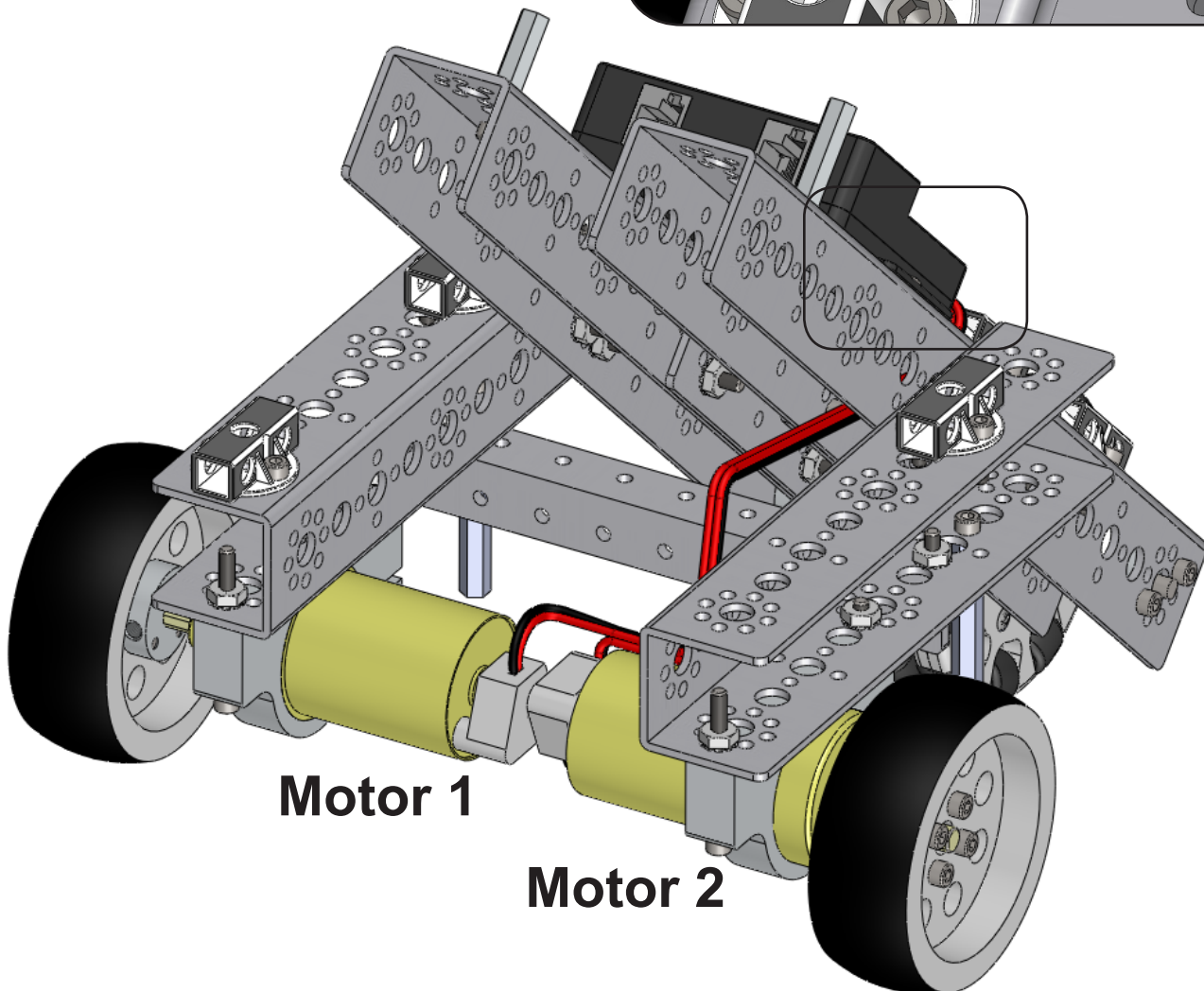
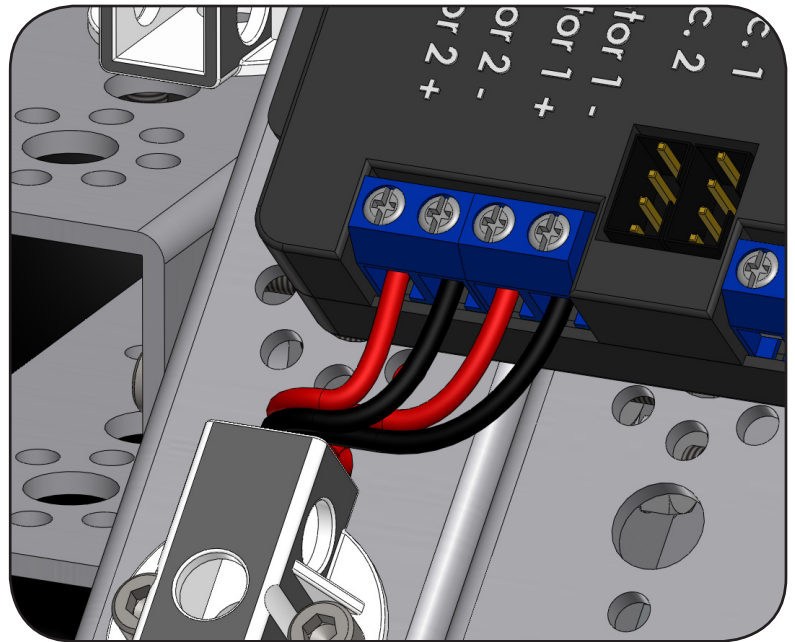
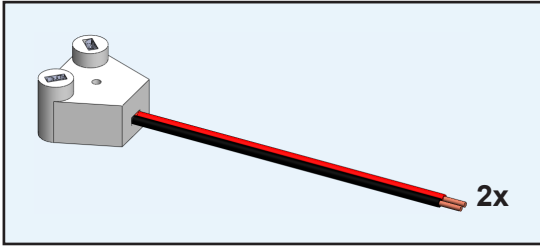
SHCS
6-31 x 0.5

8x 8x

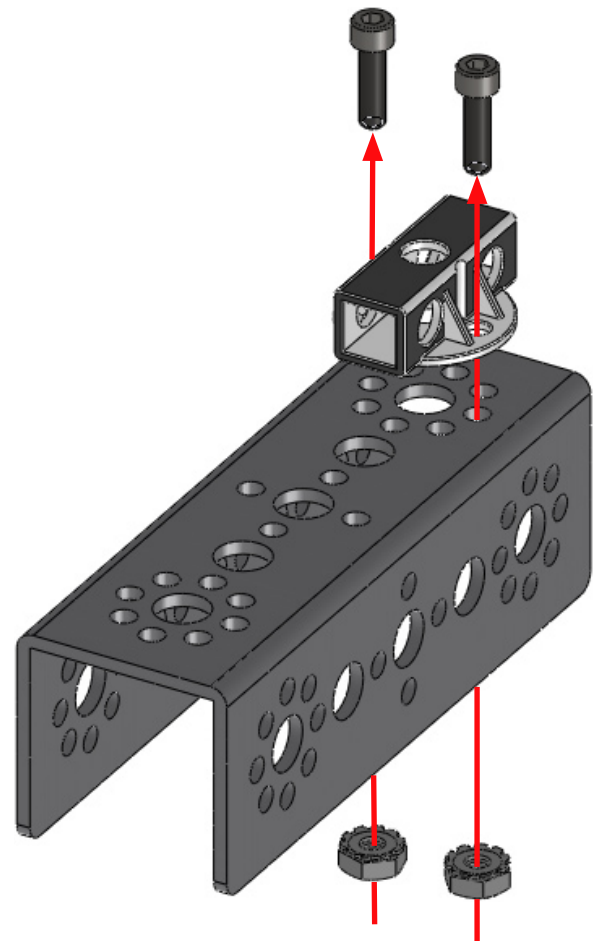
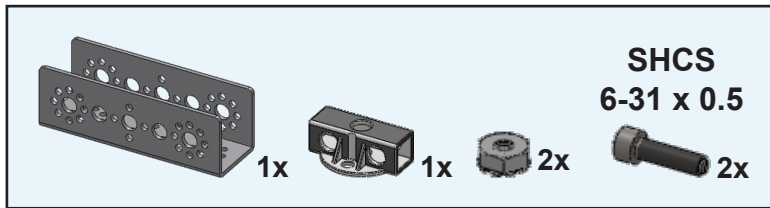




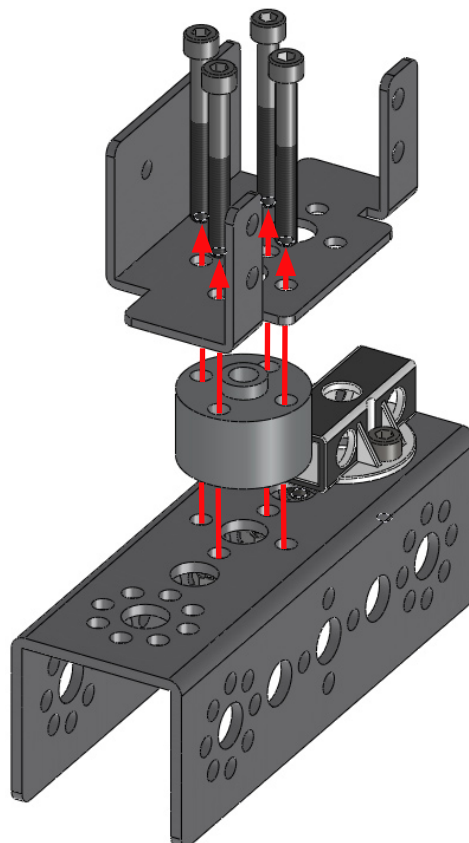
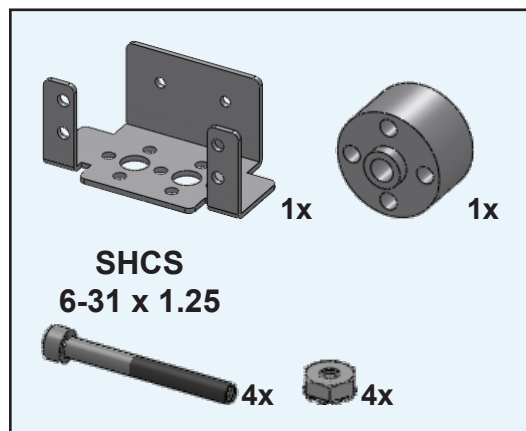
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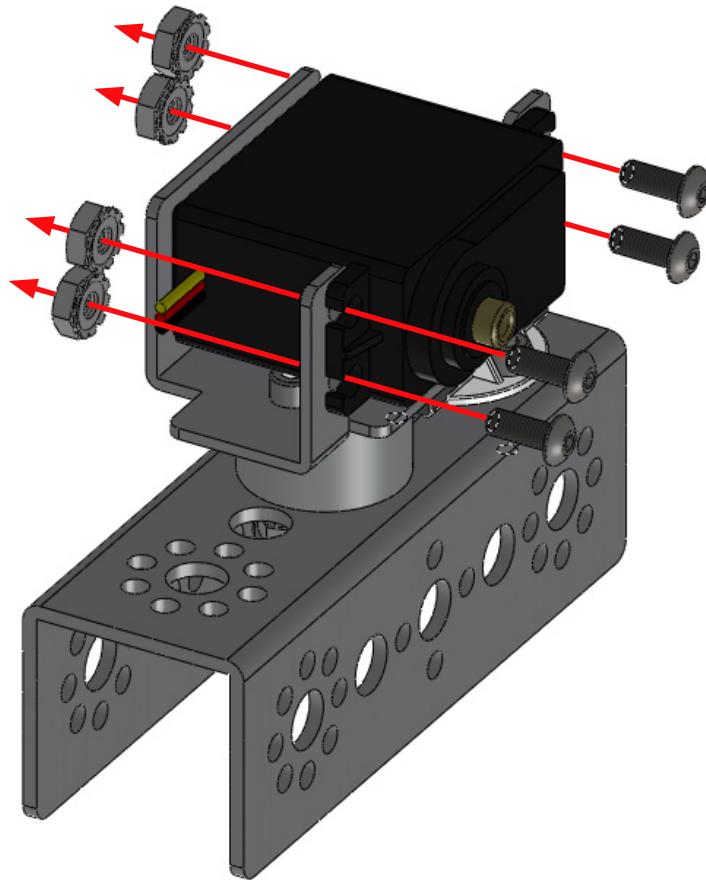
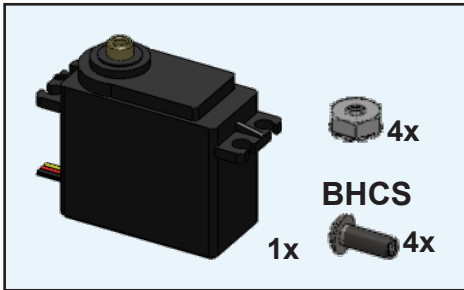
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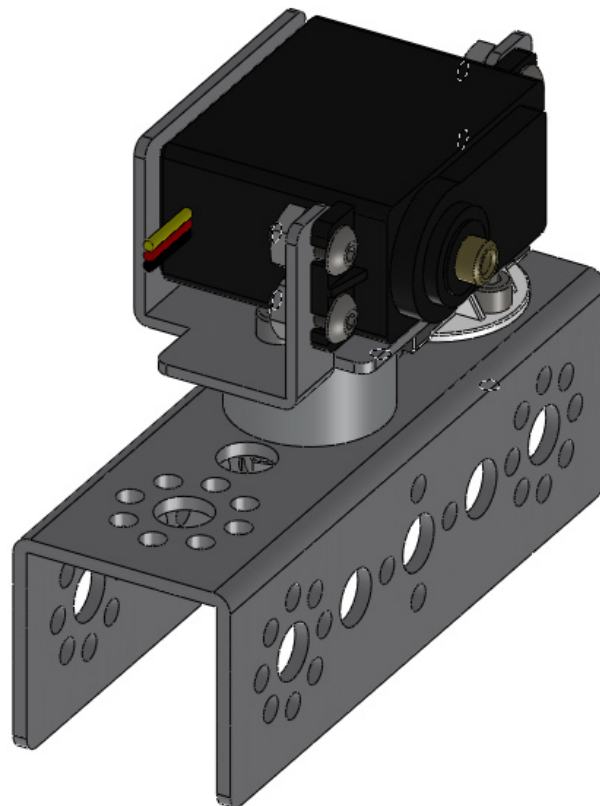
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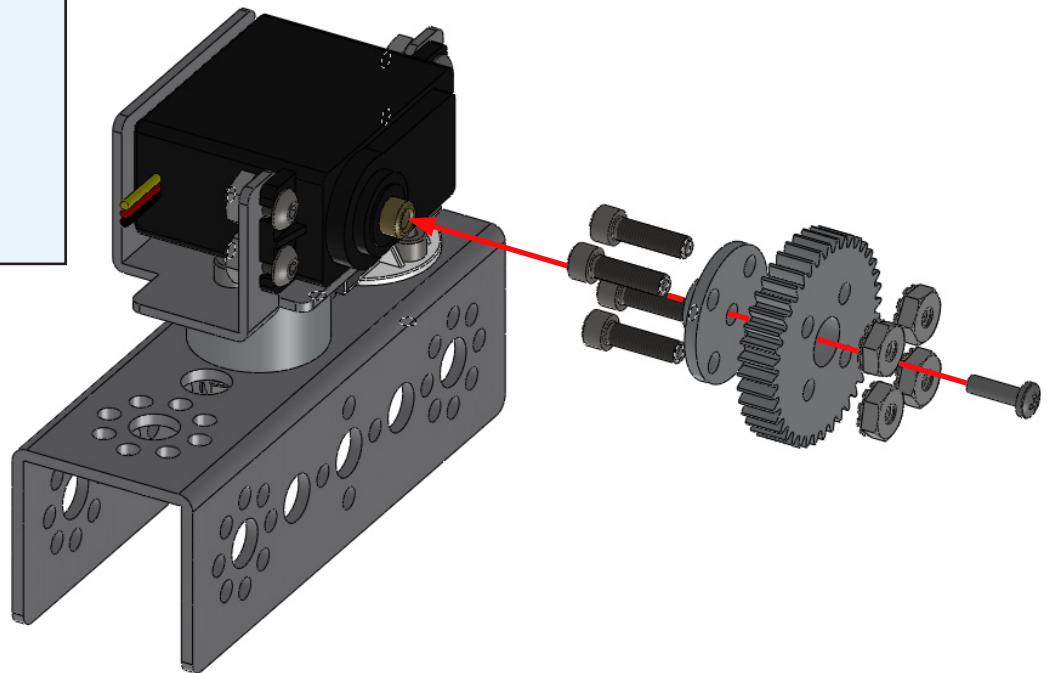
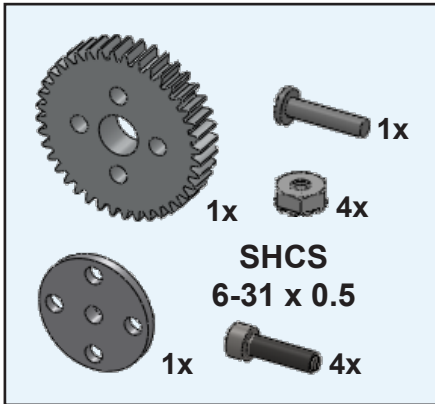
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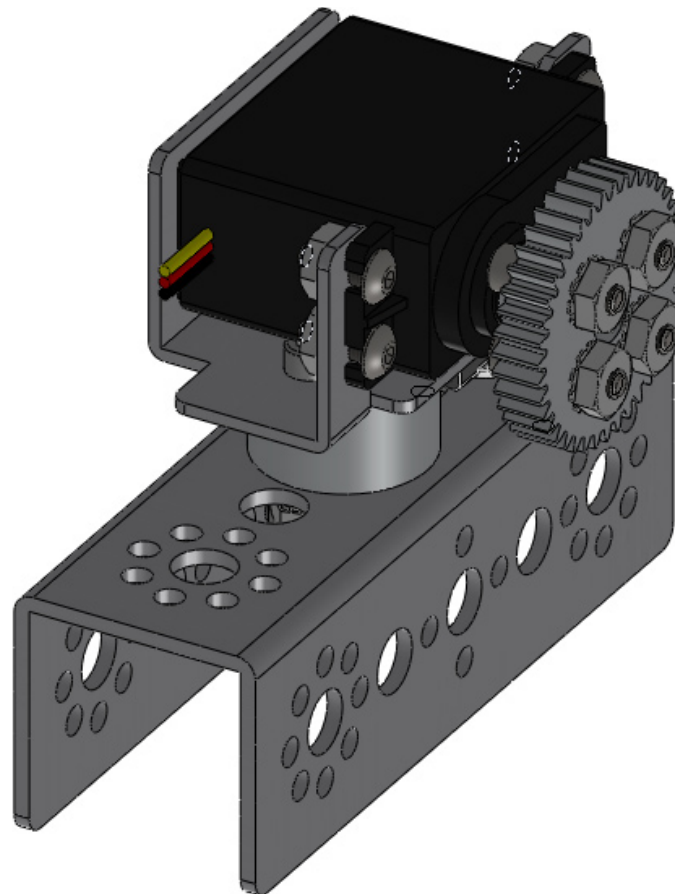
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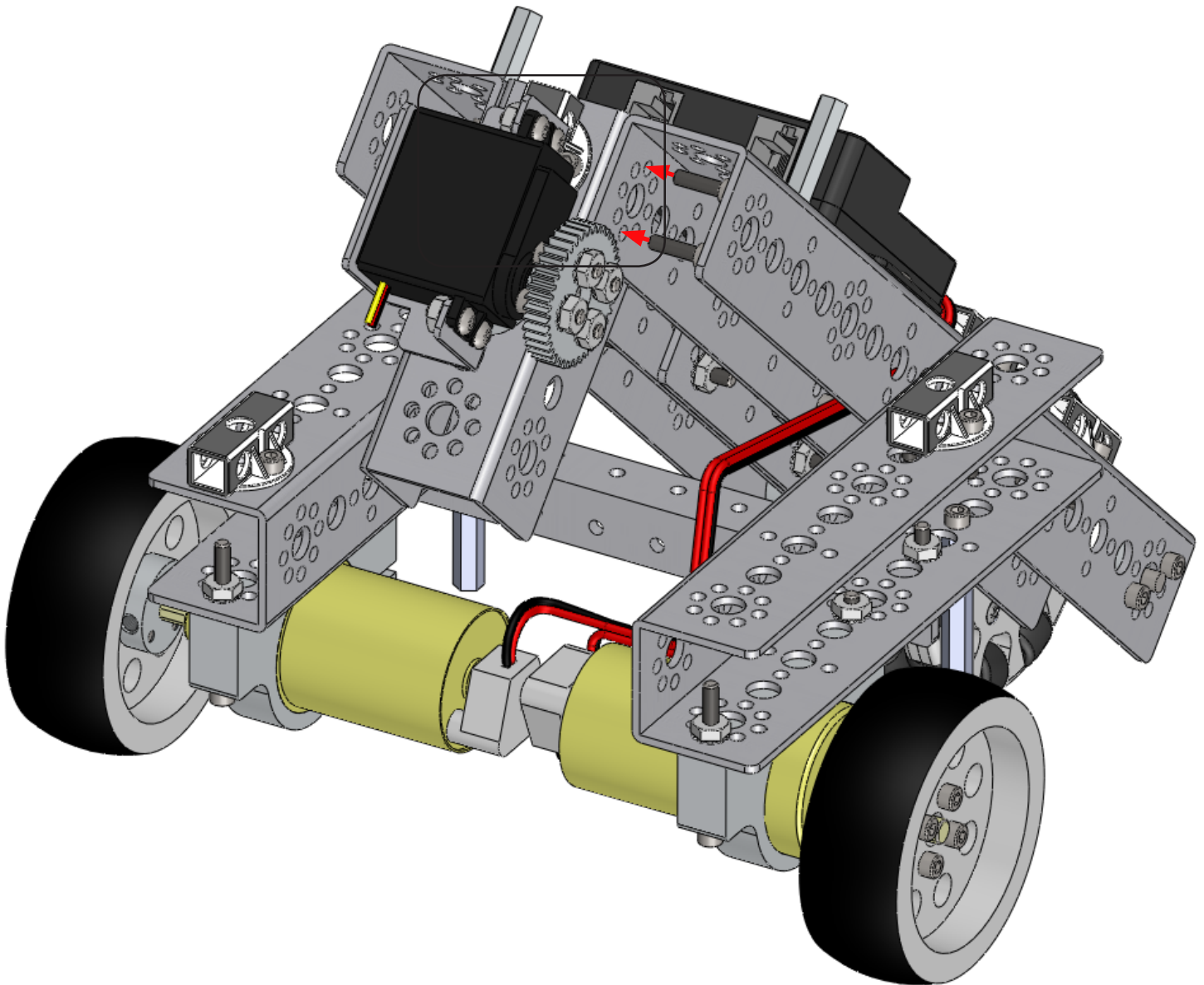
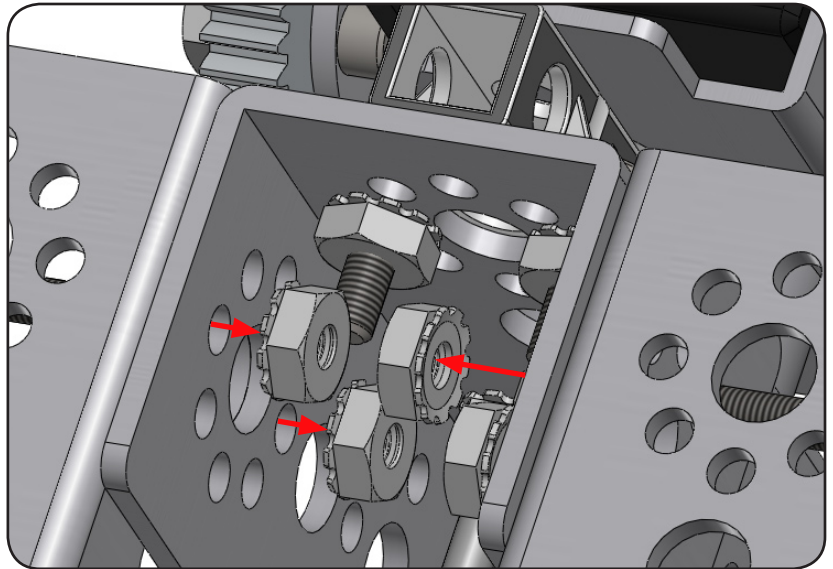
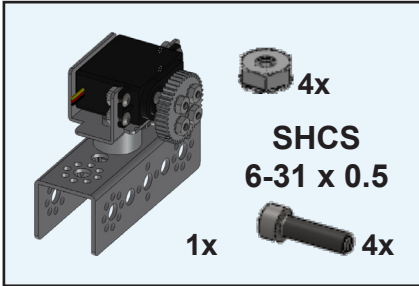
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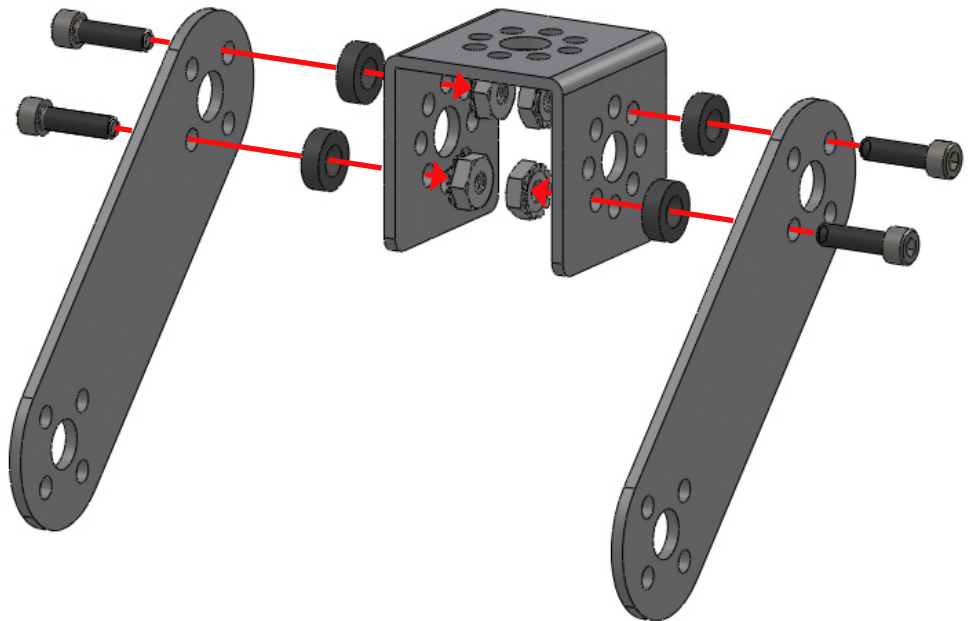
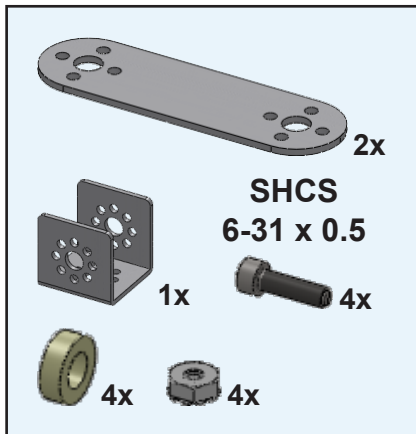
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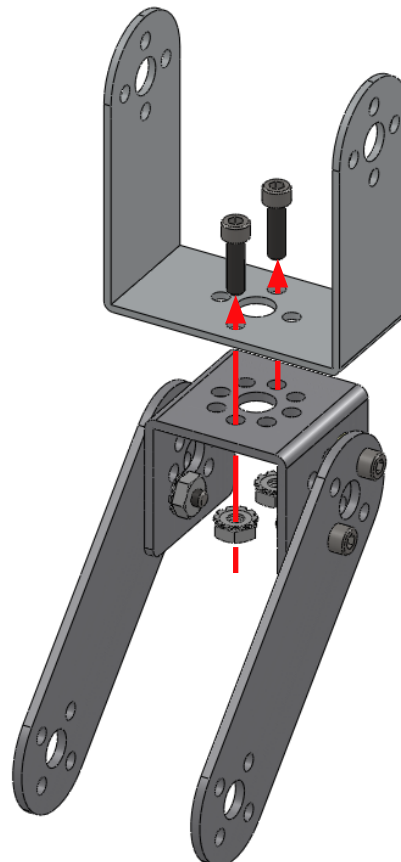
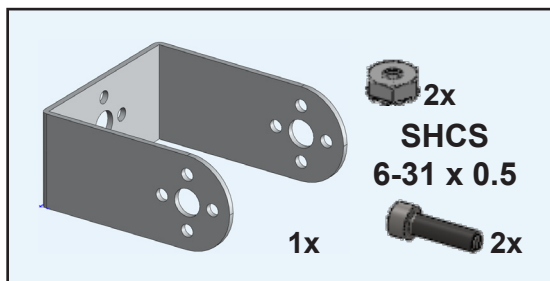
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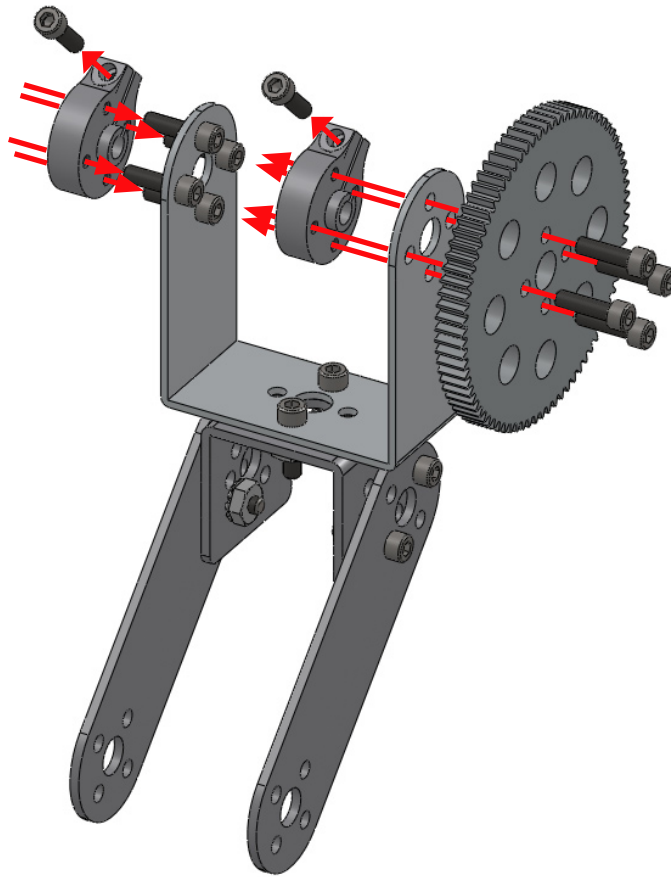
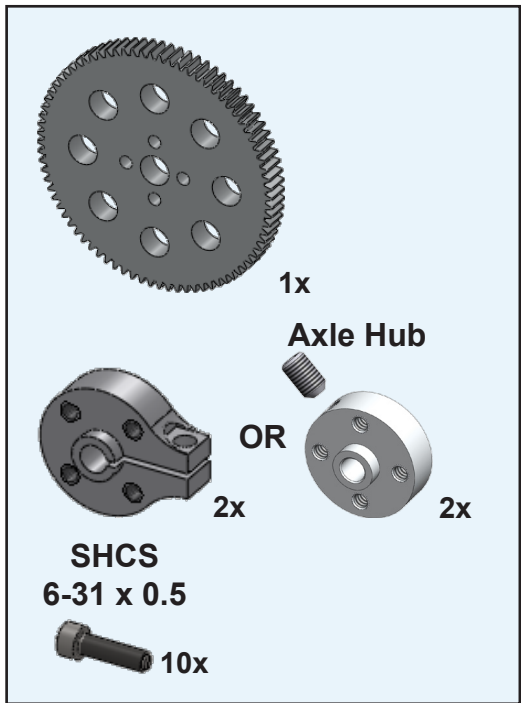
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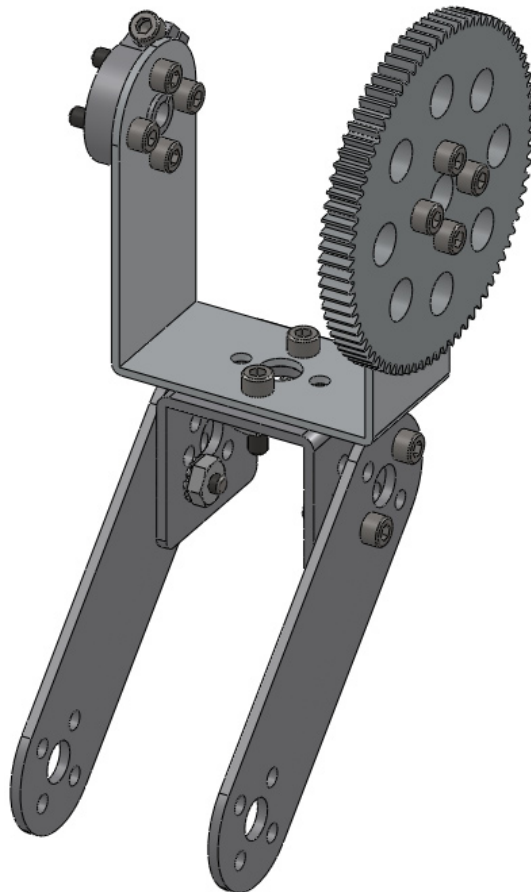
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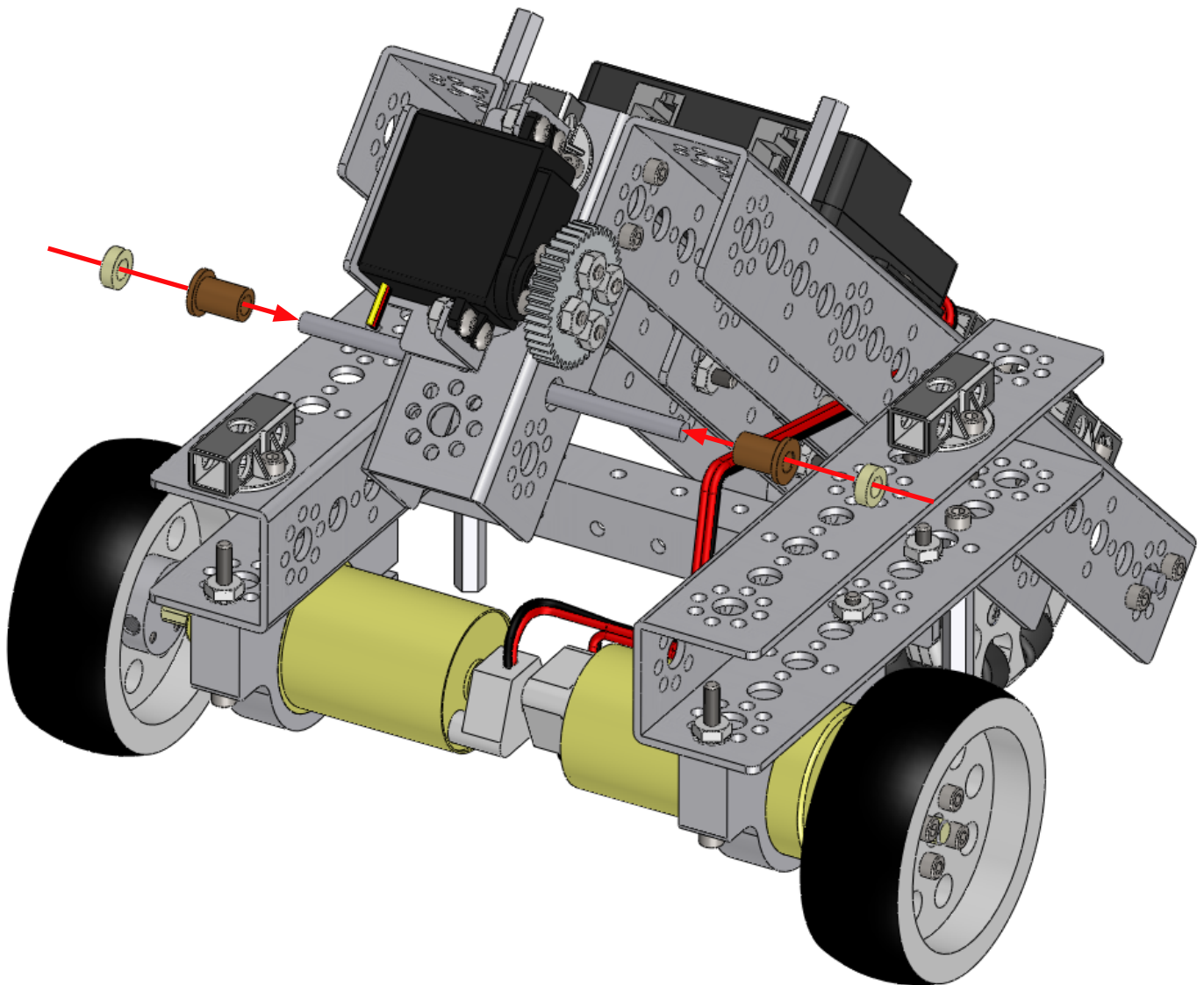
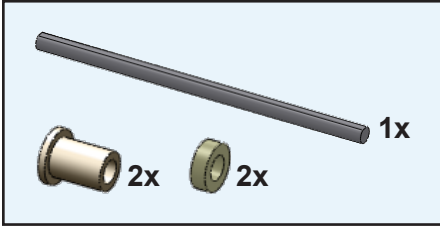


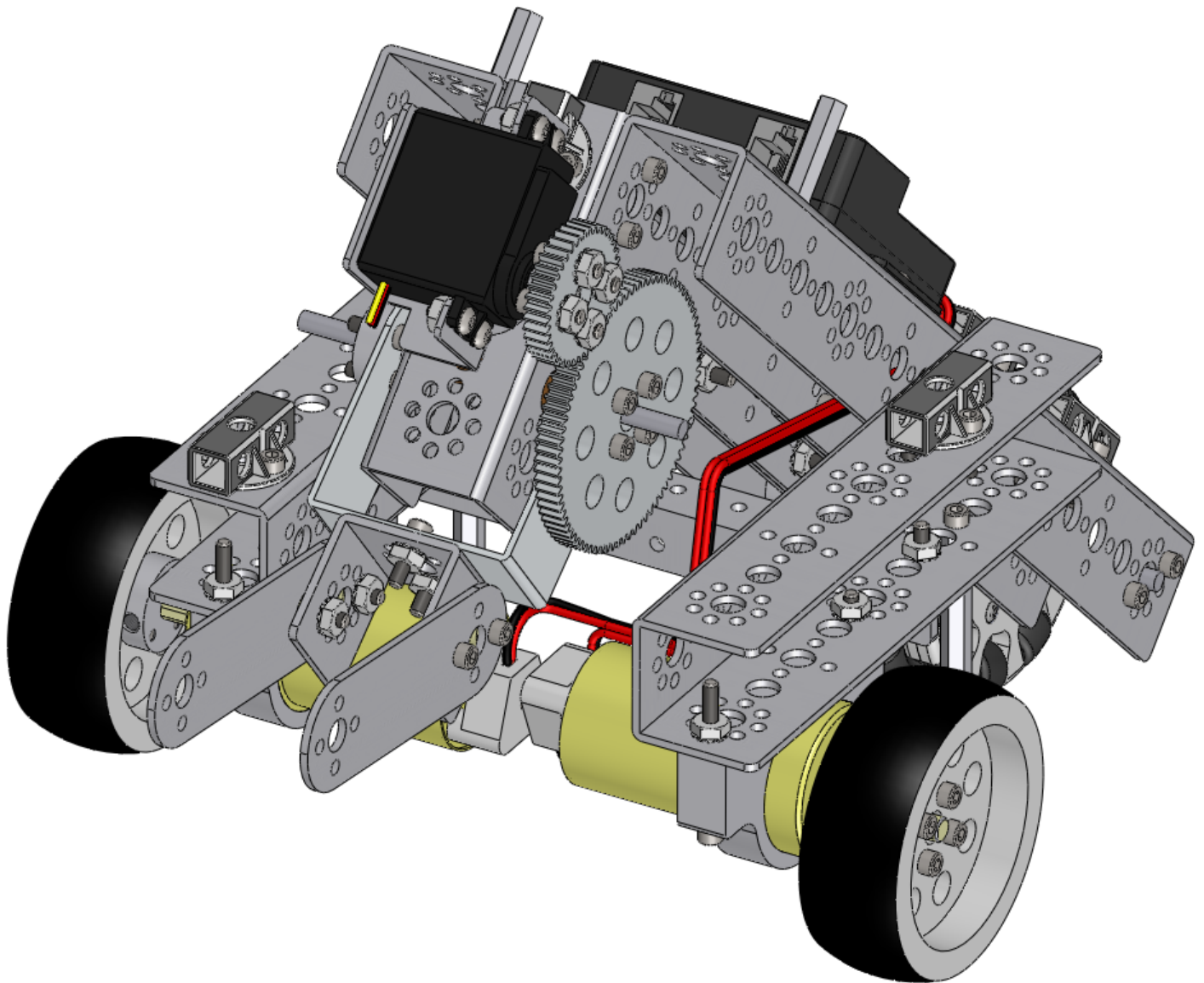
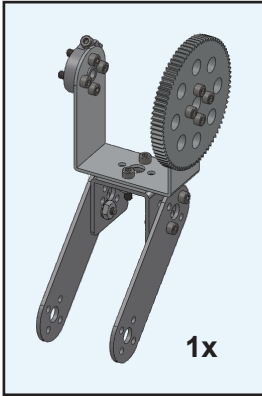
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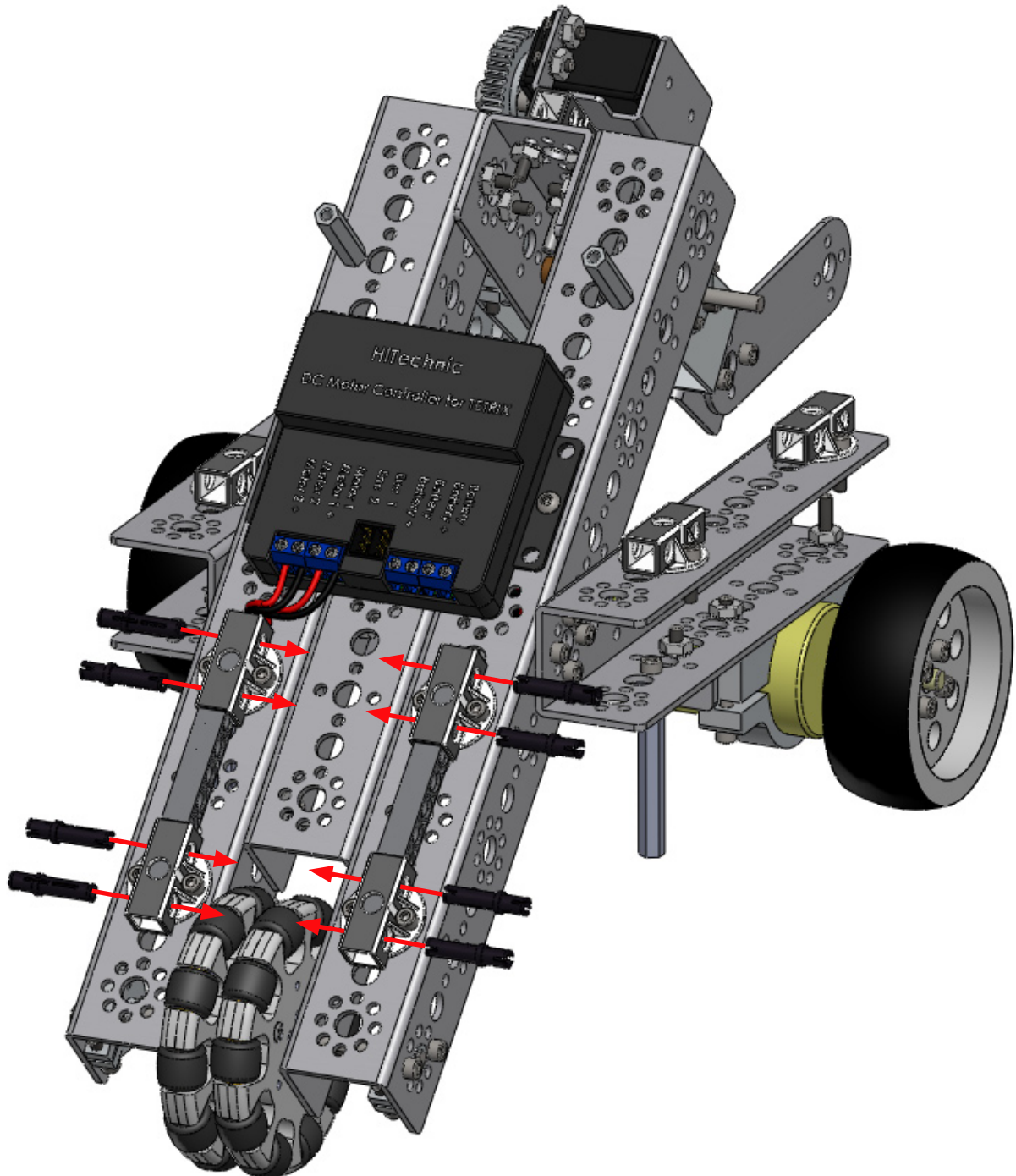
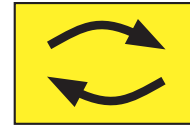
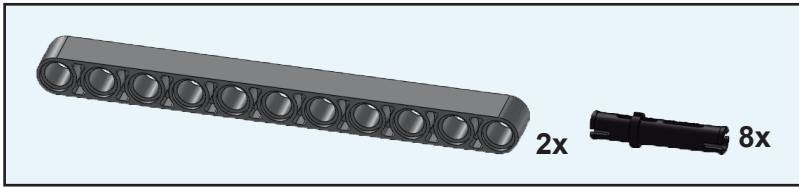
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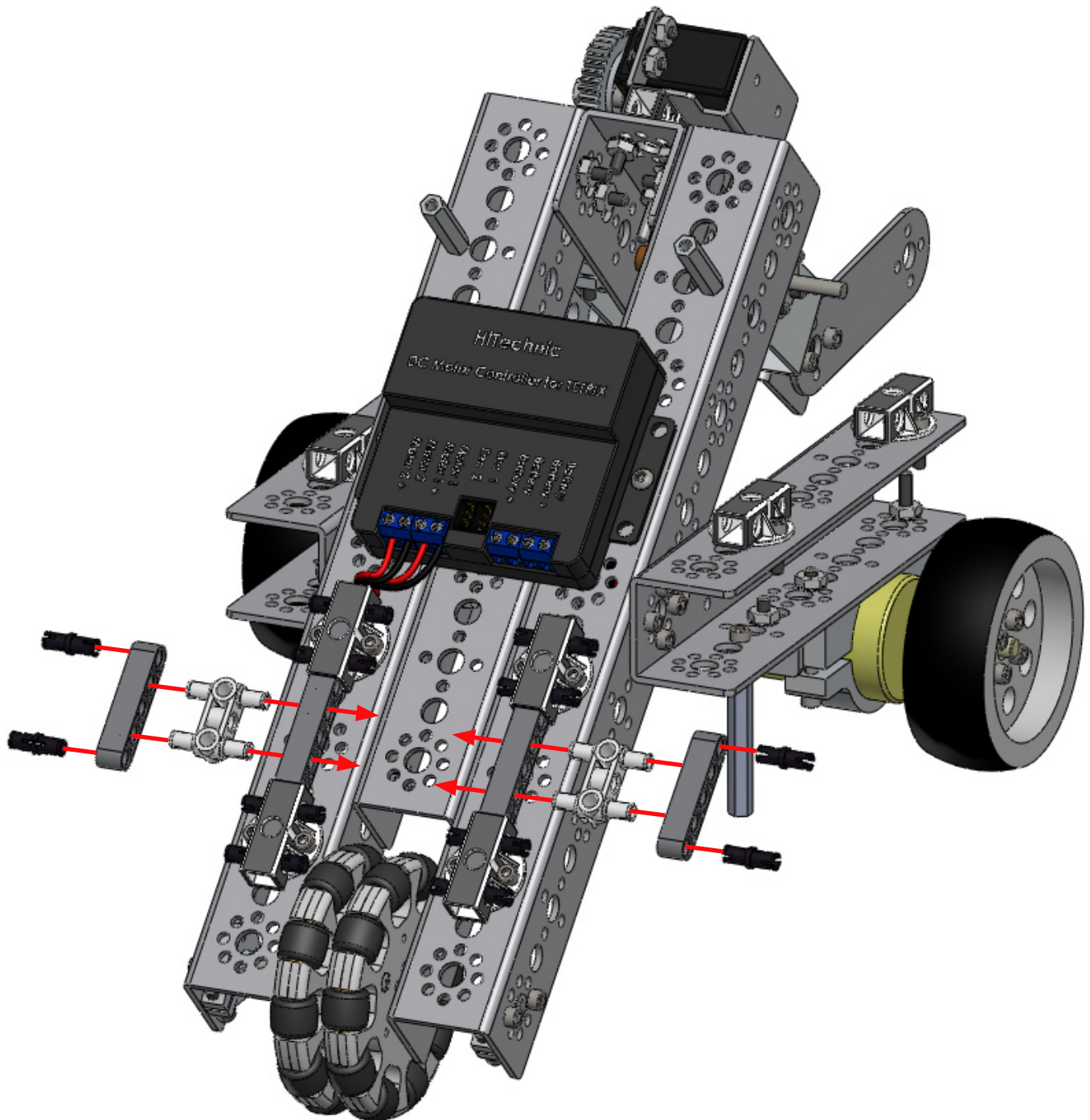
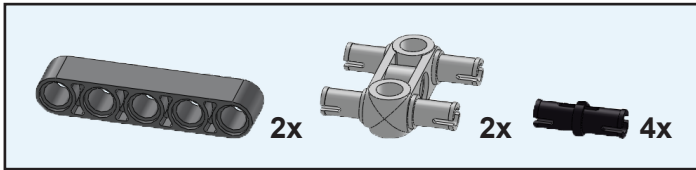


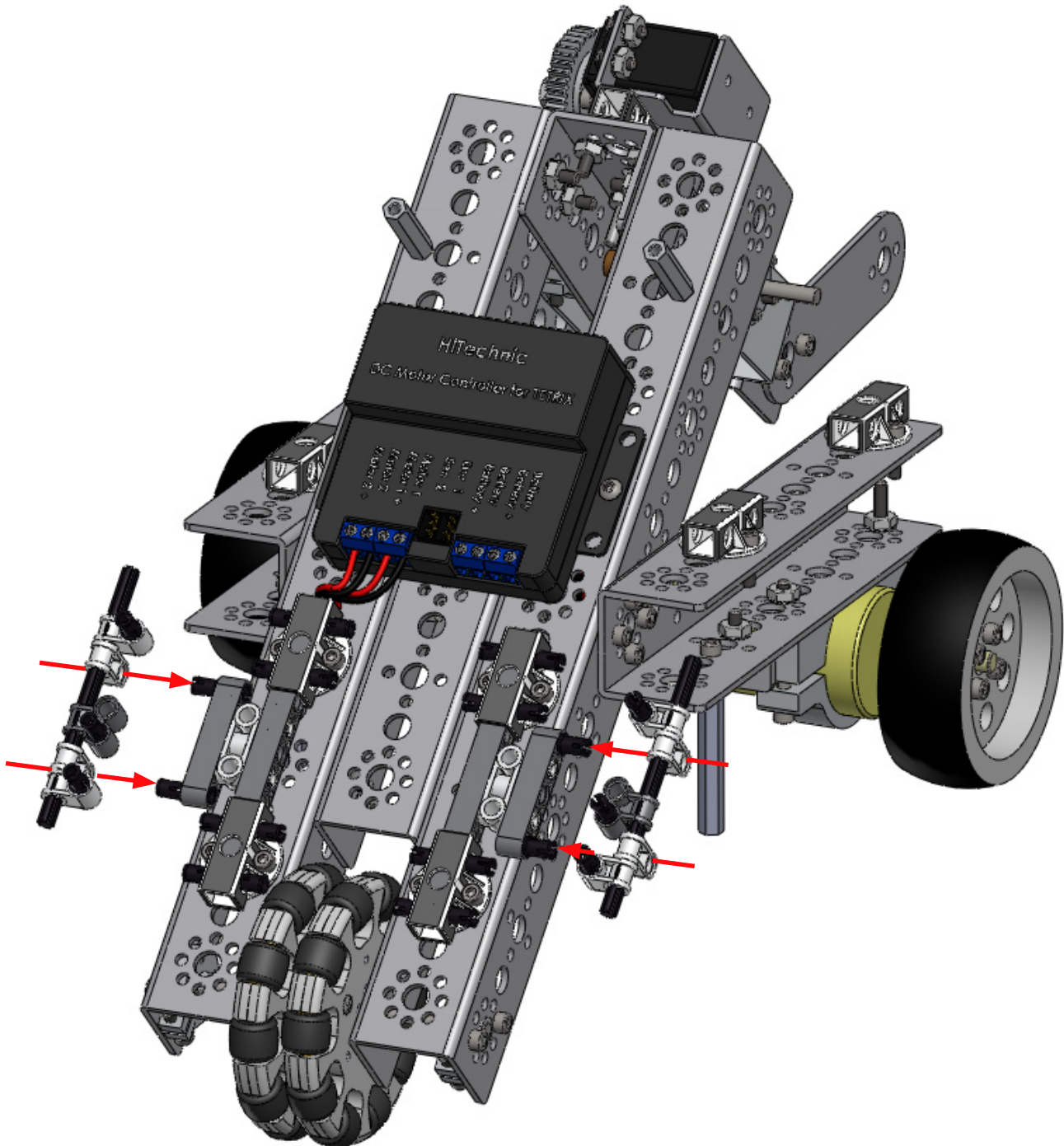
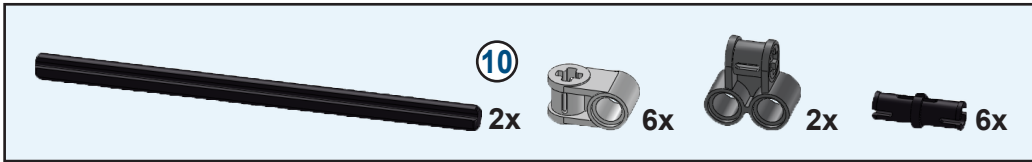


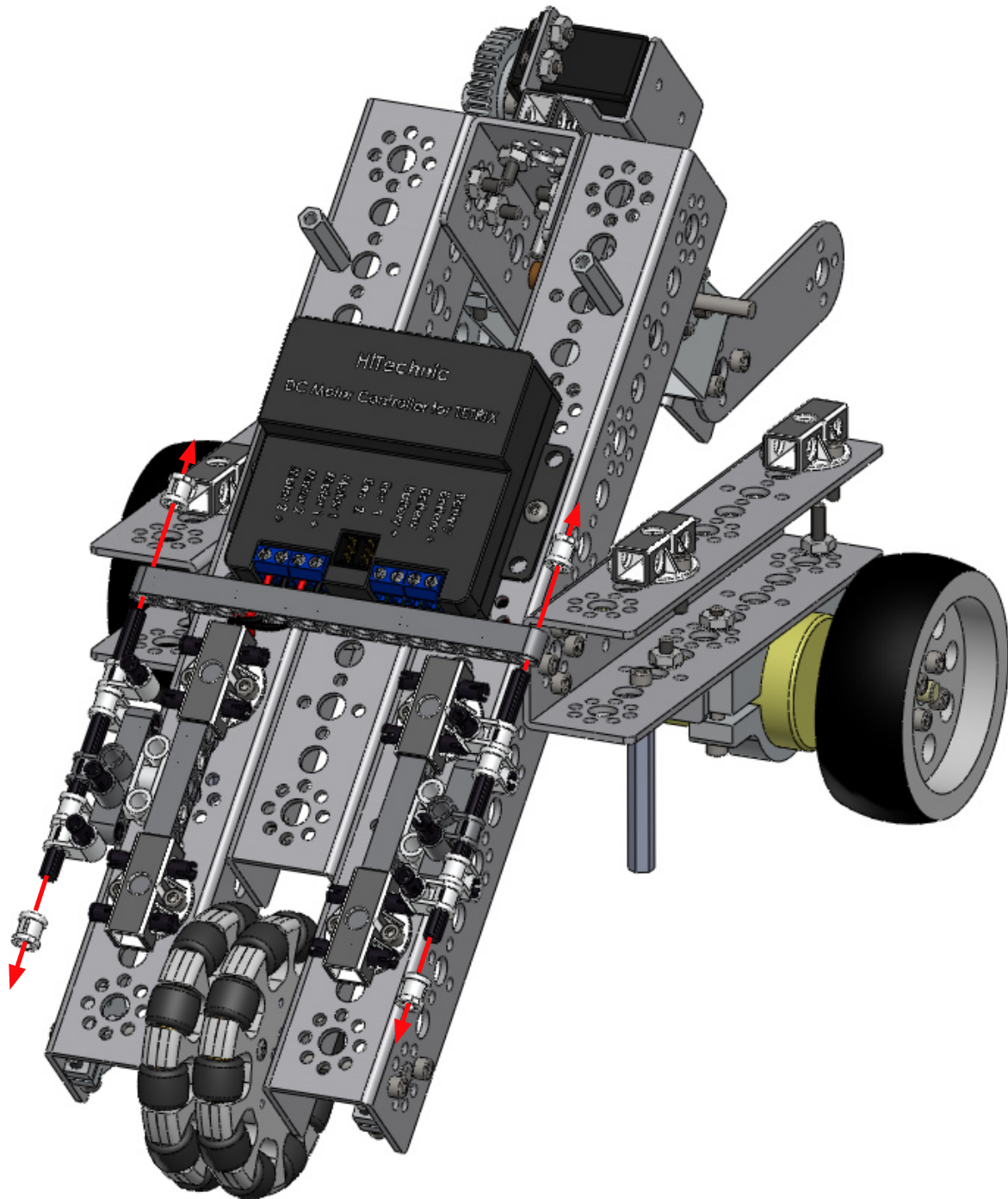
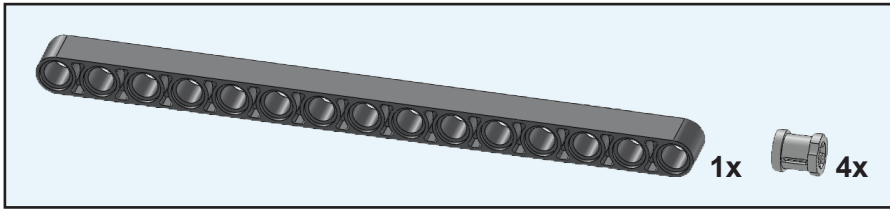


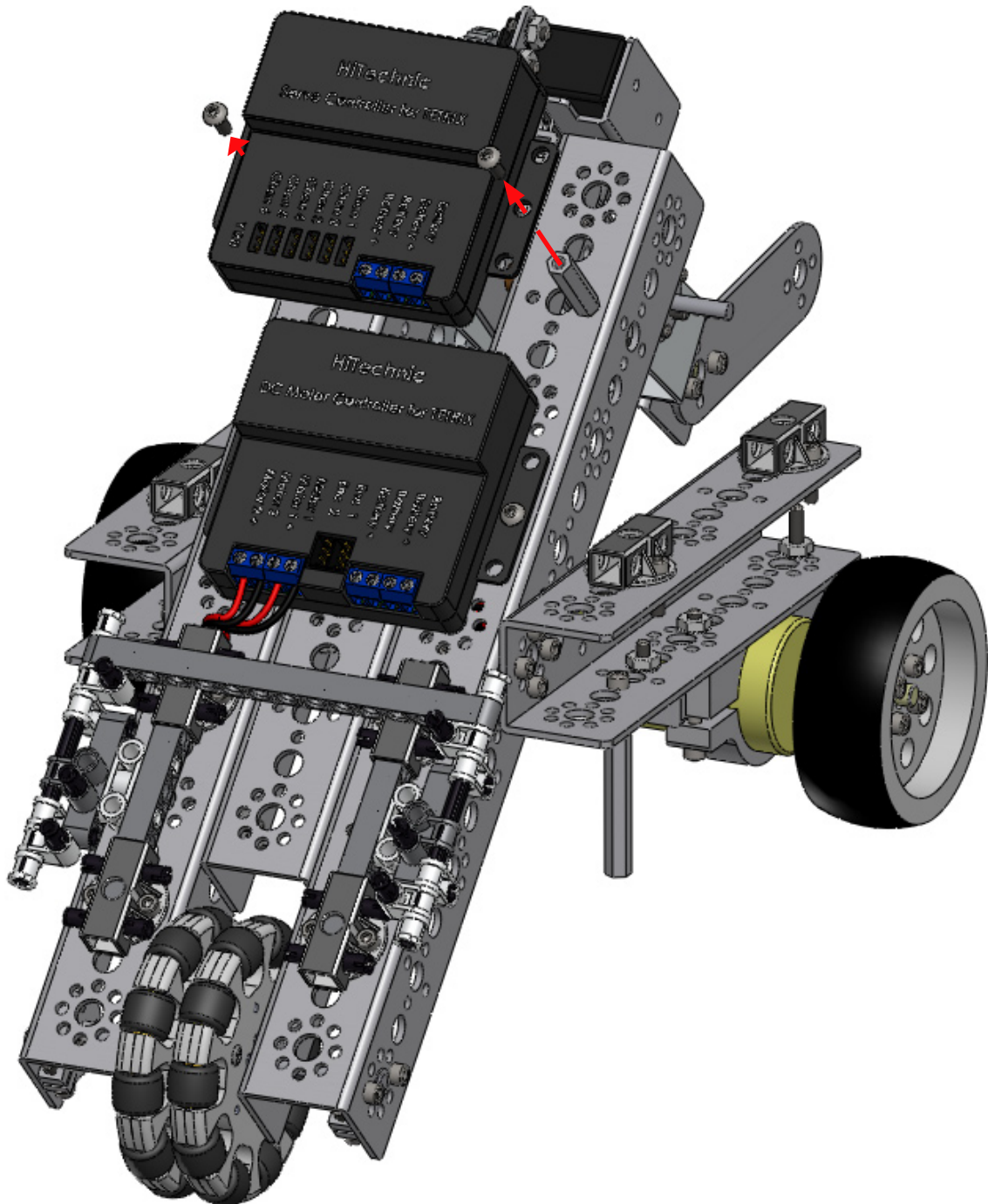
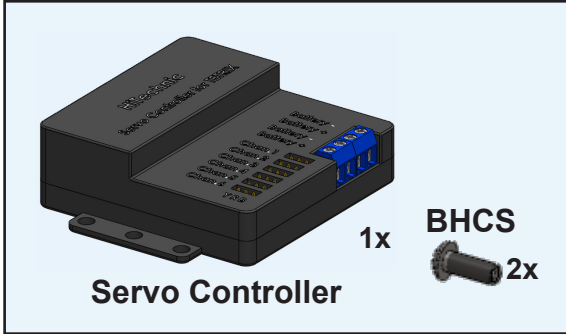
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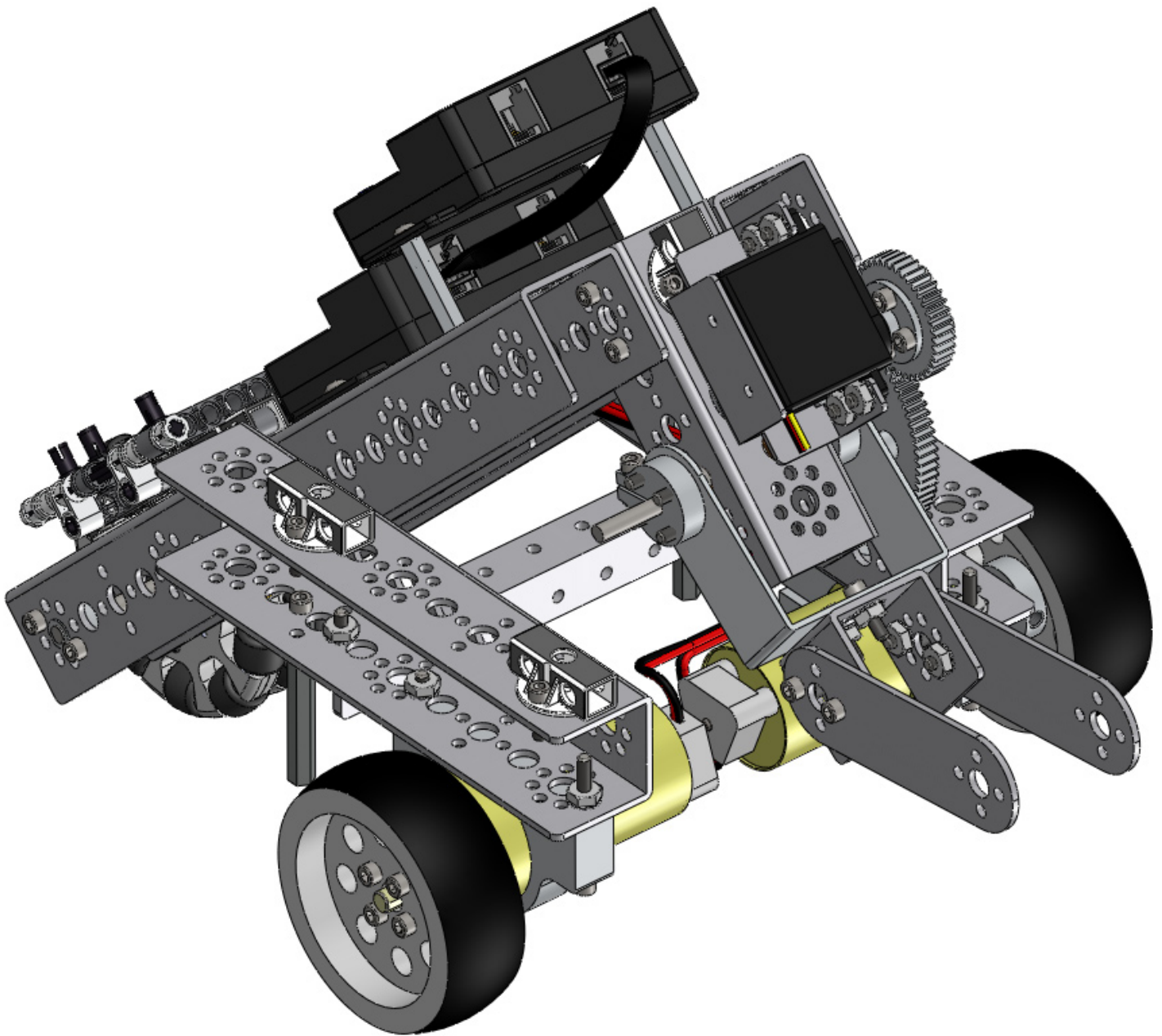
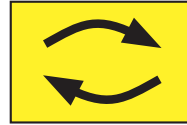
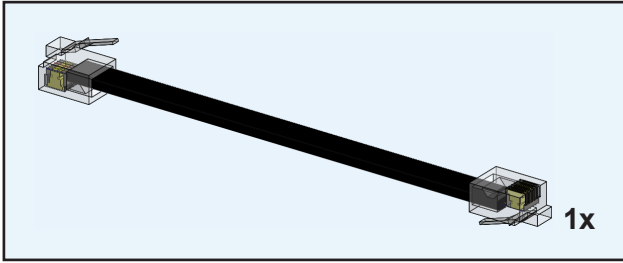


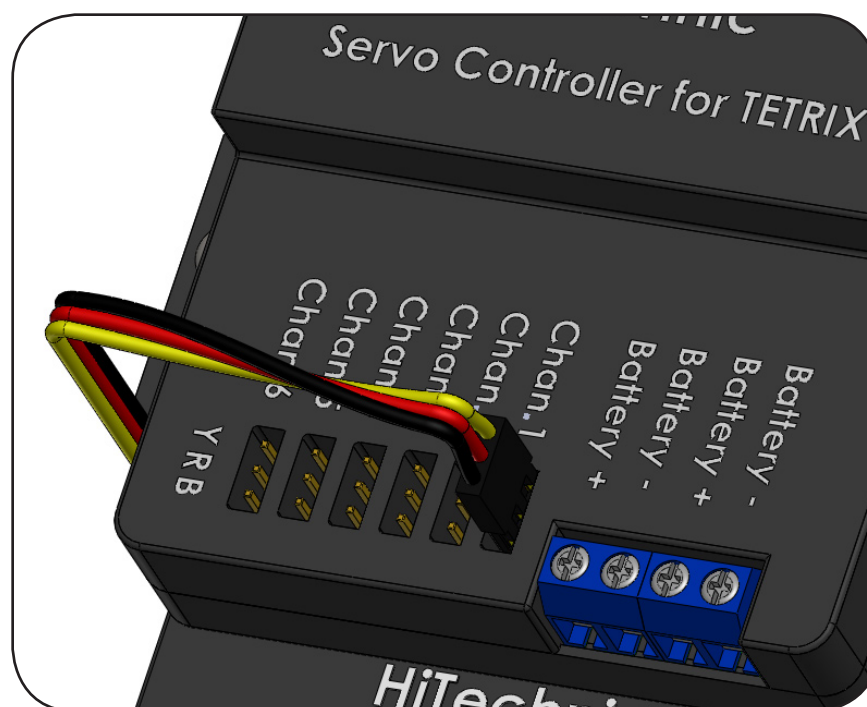
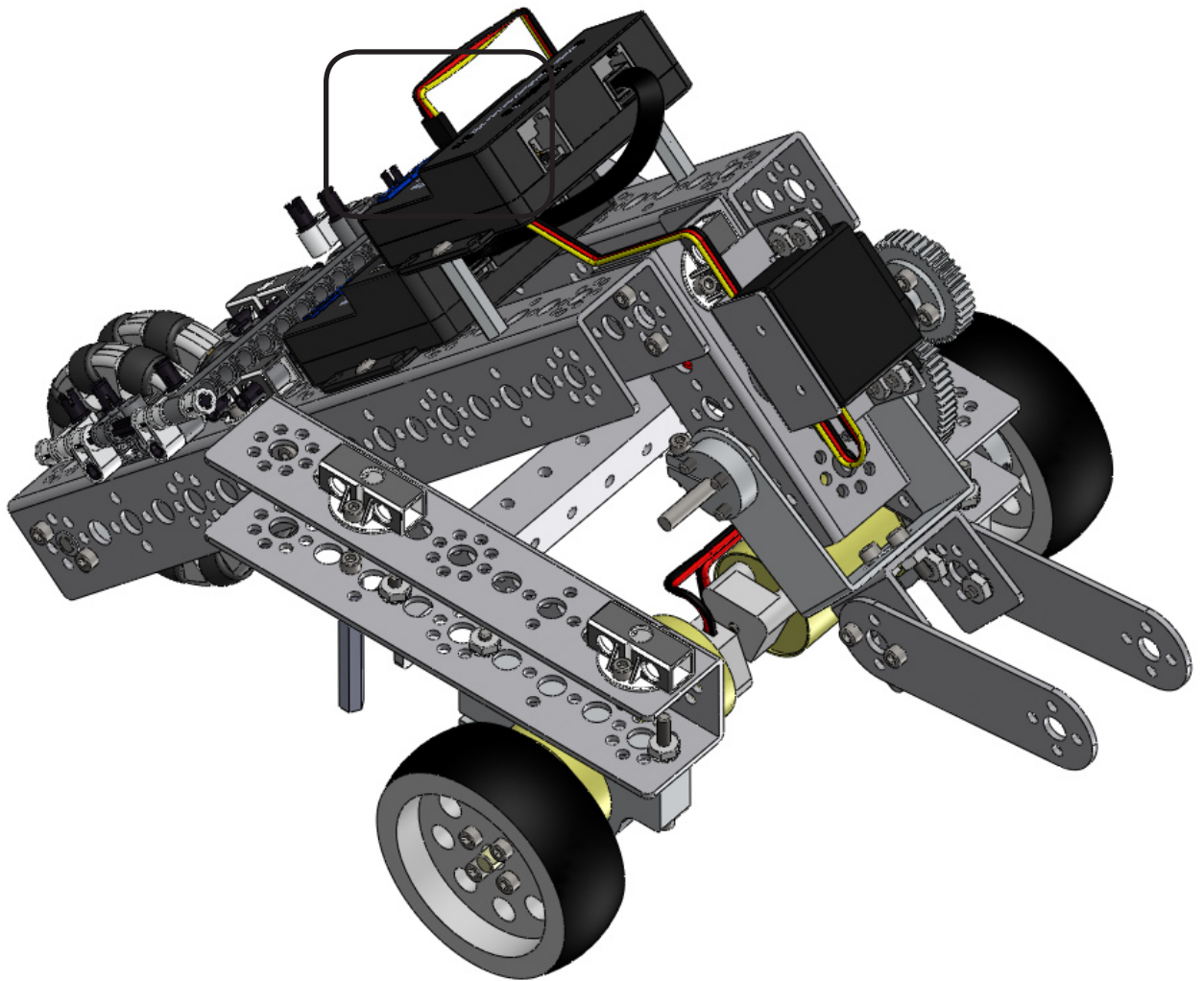


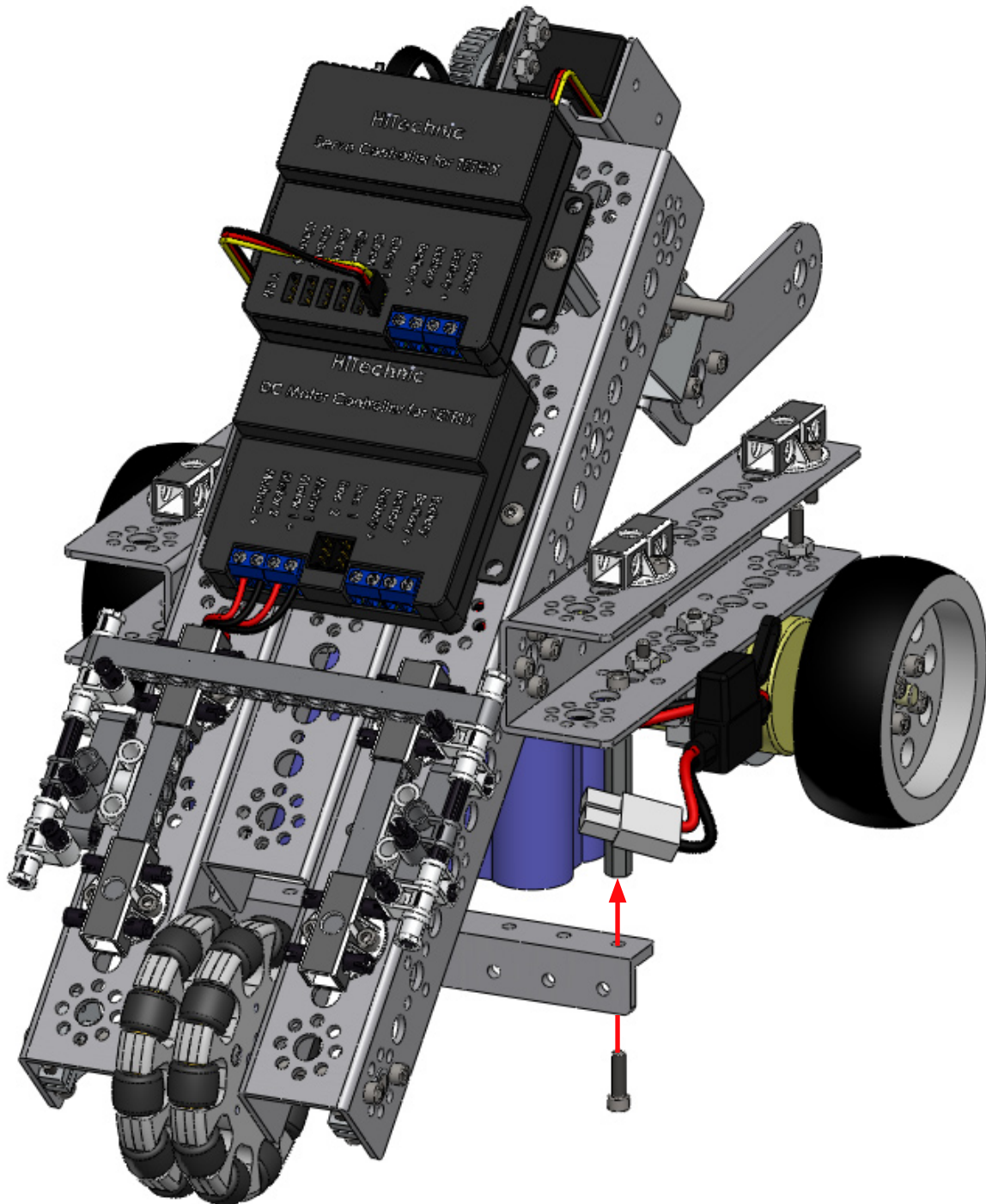
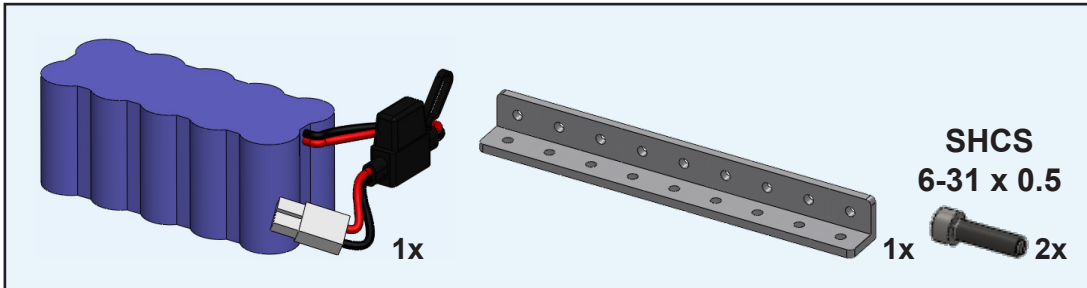


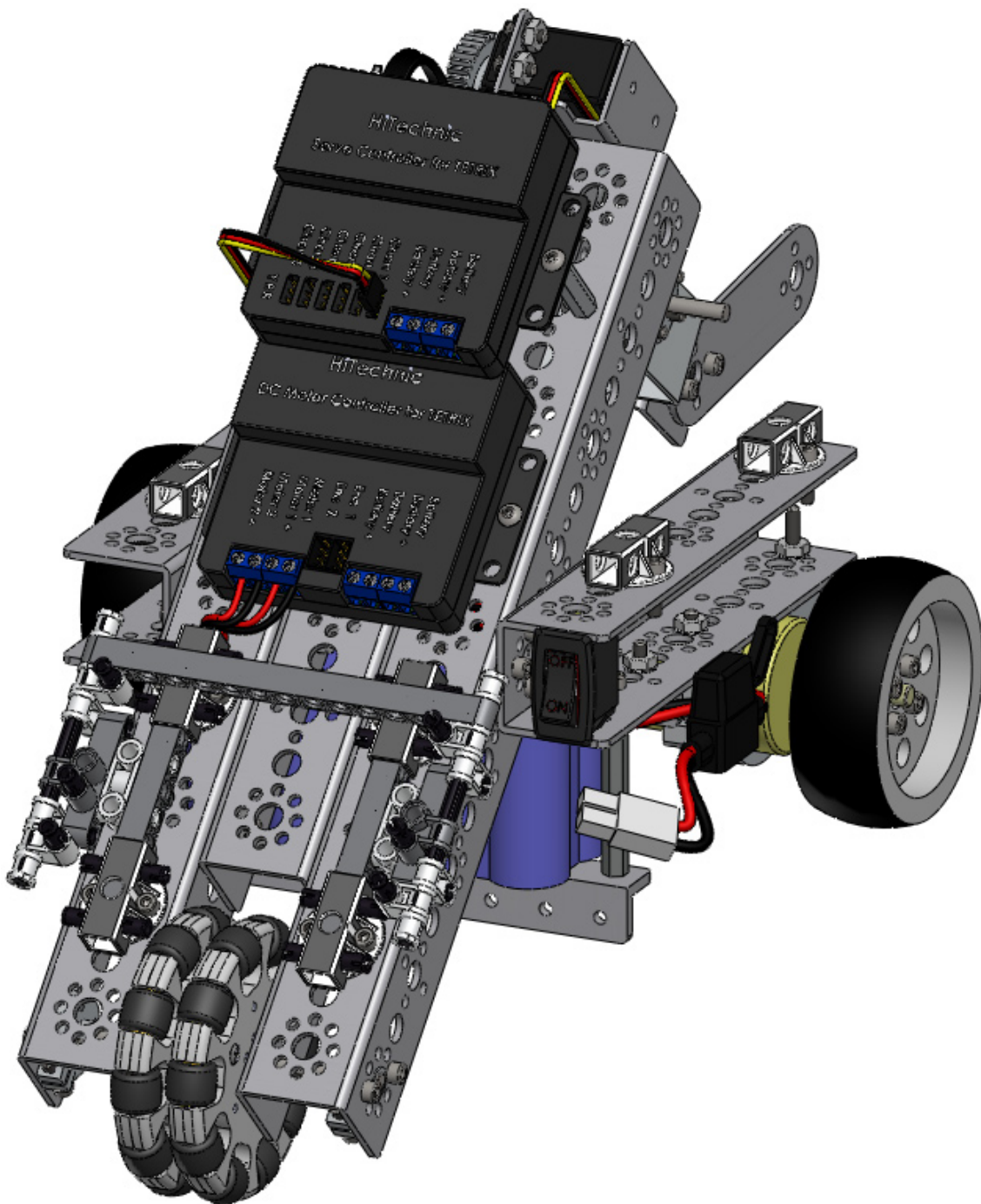
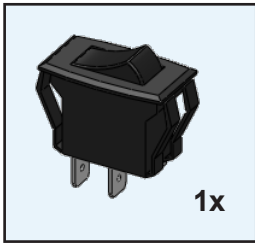


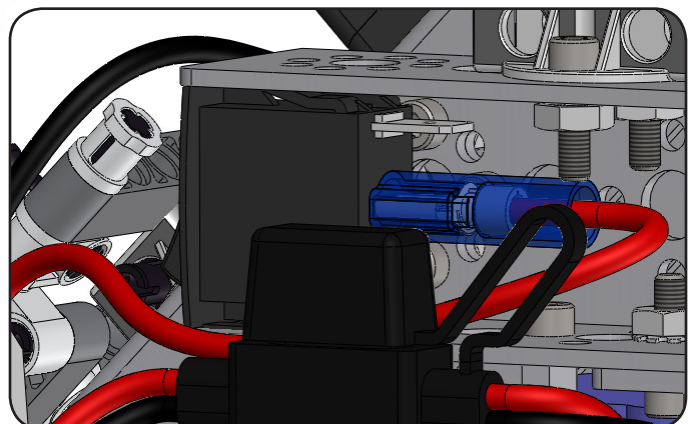
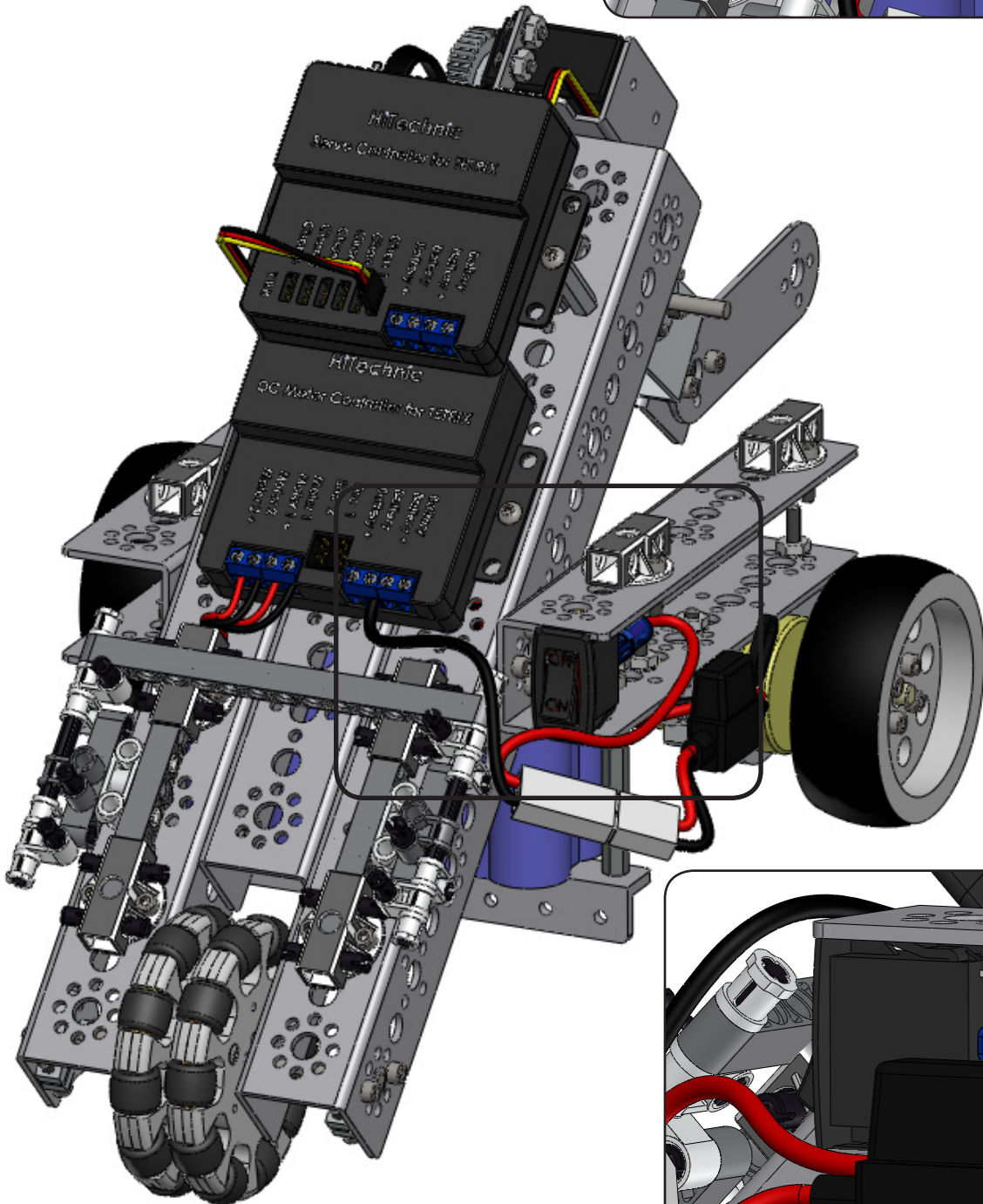
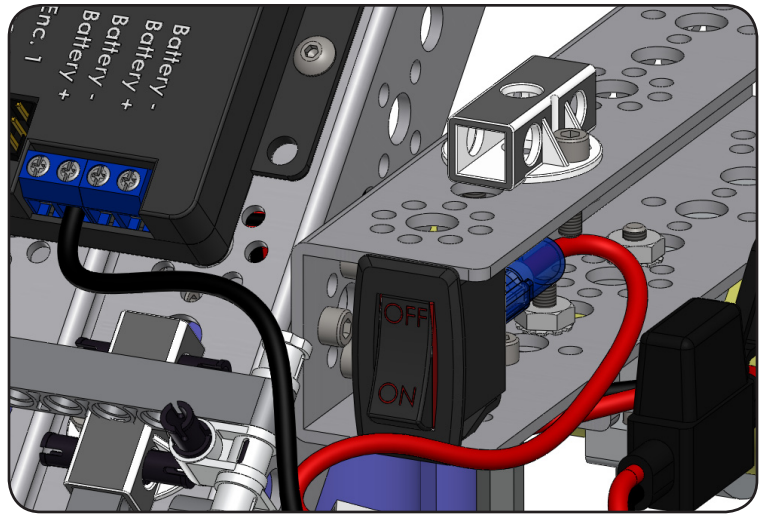
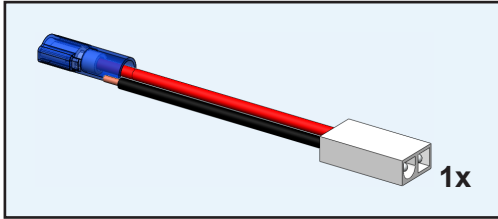
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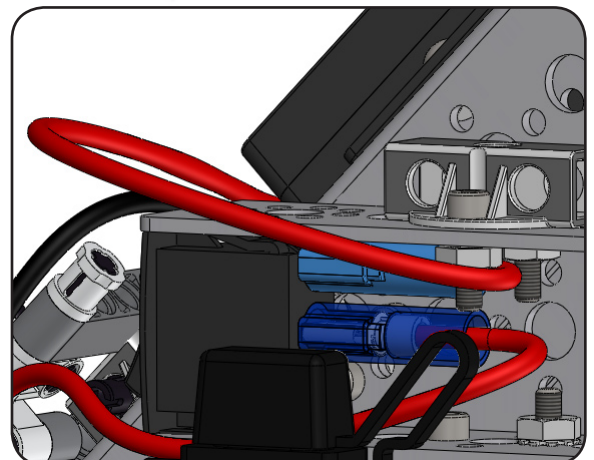
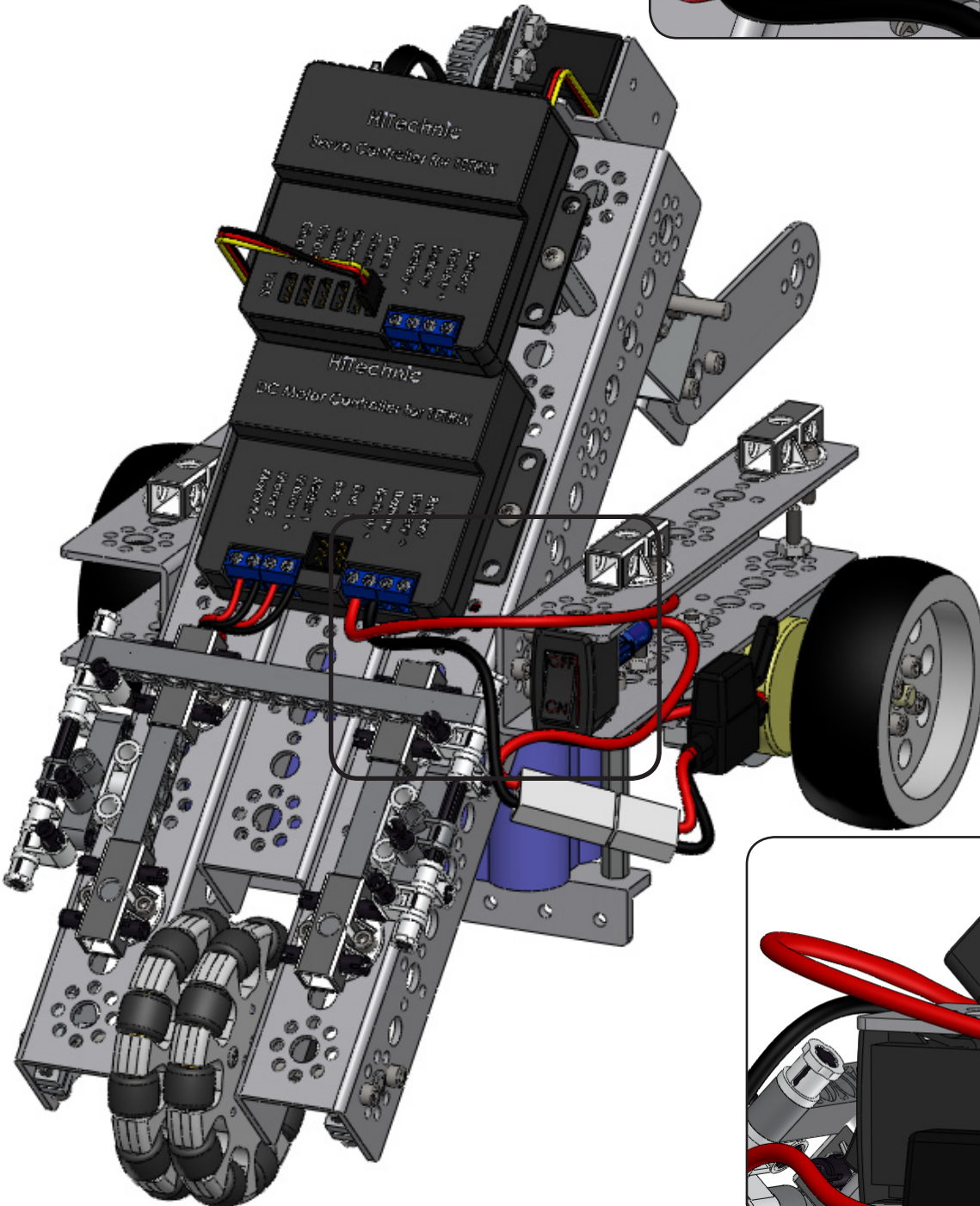
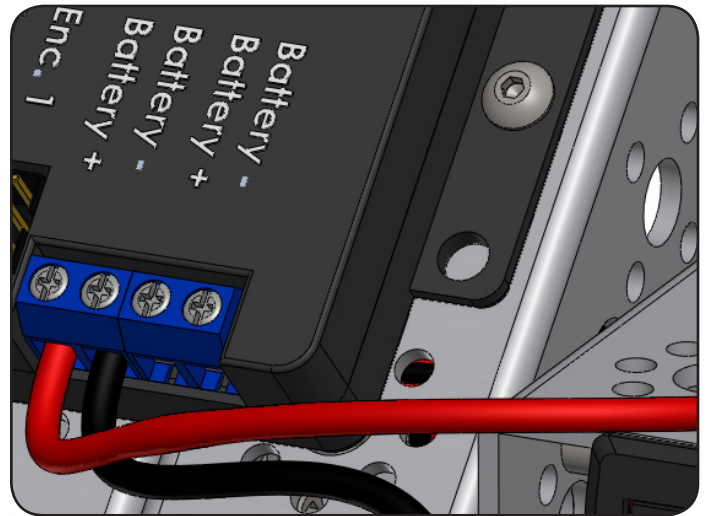
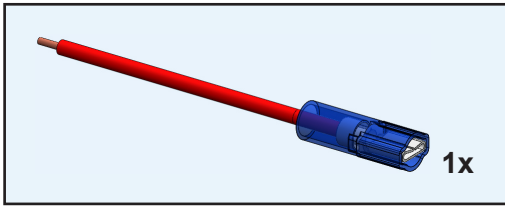


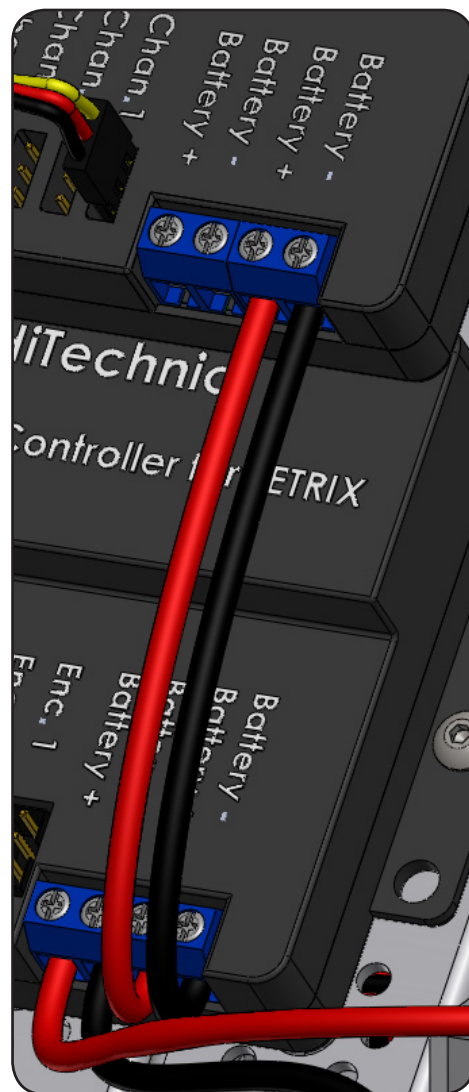
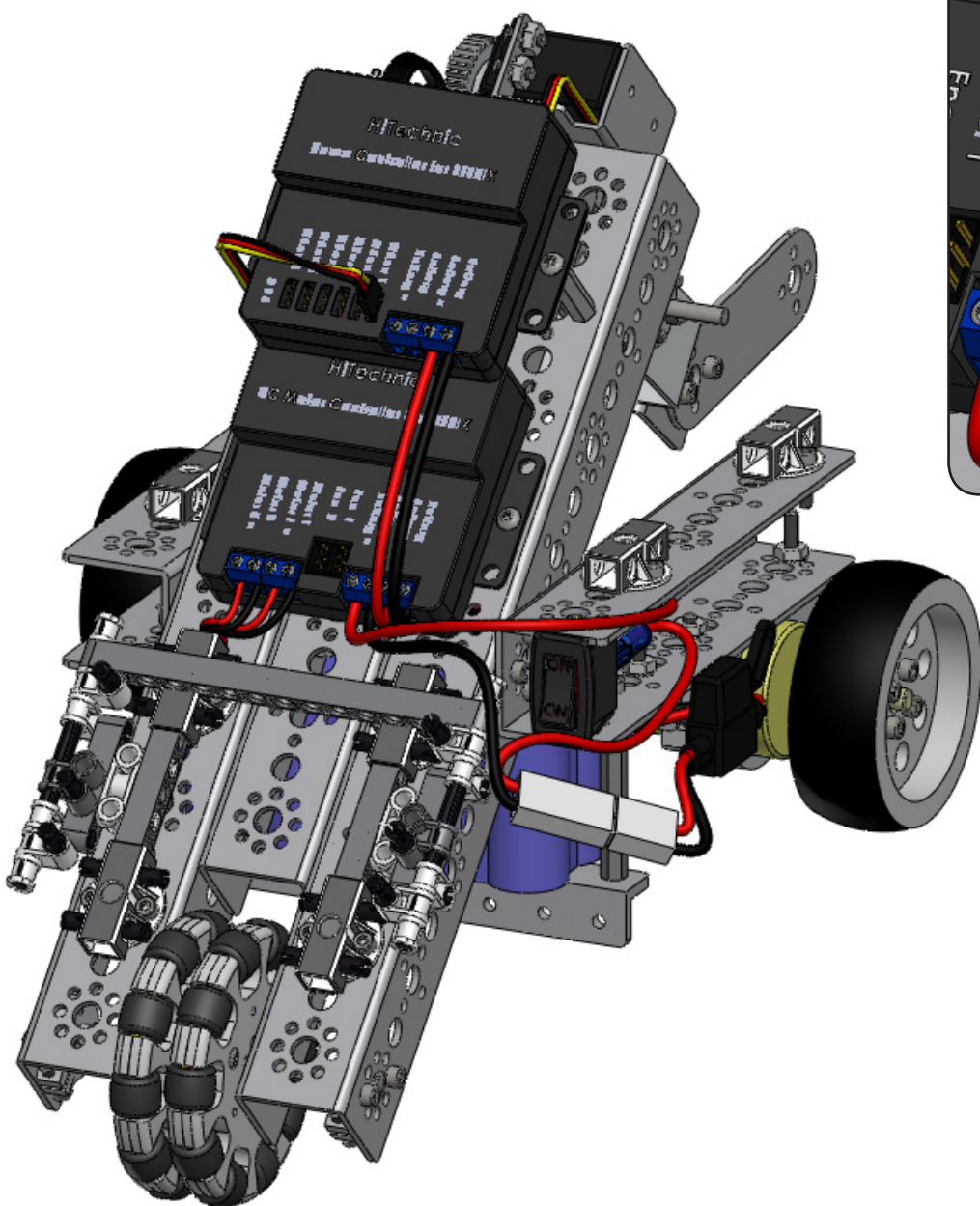
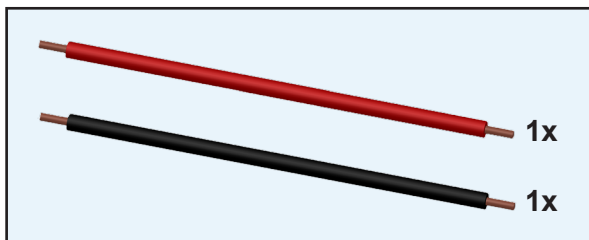


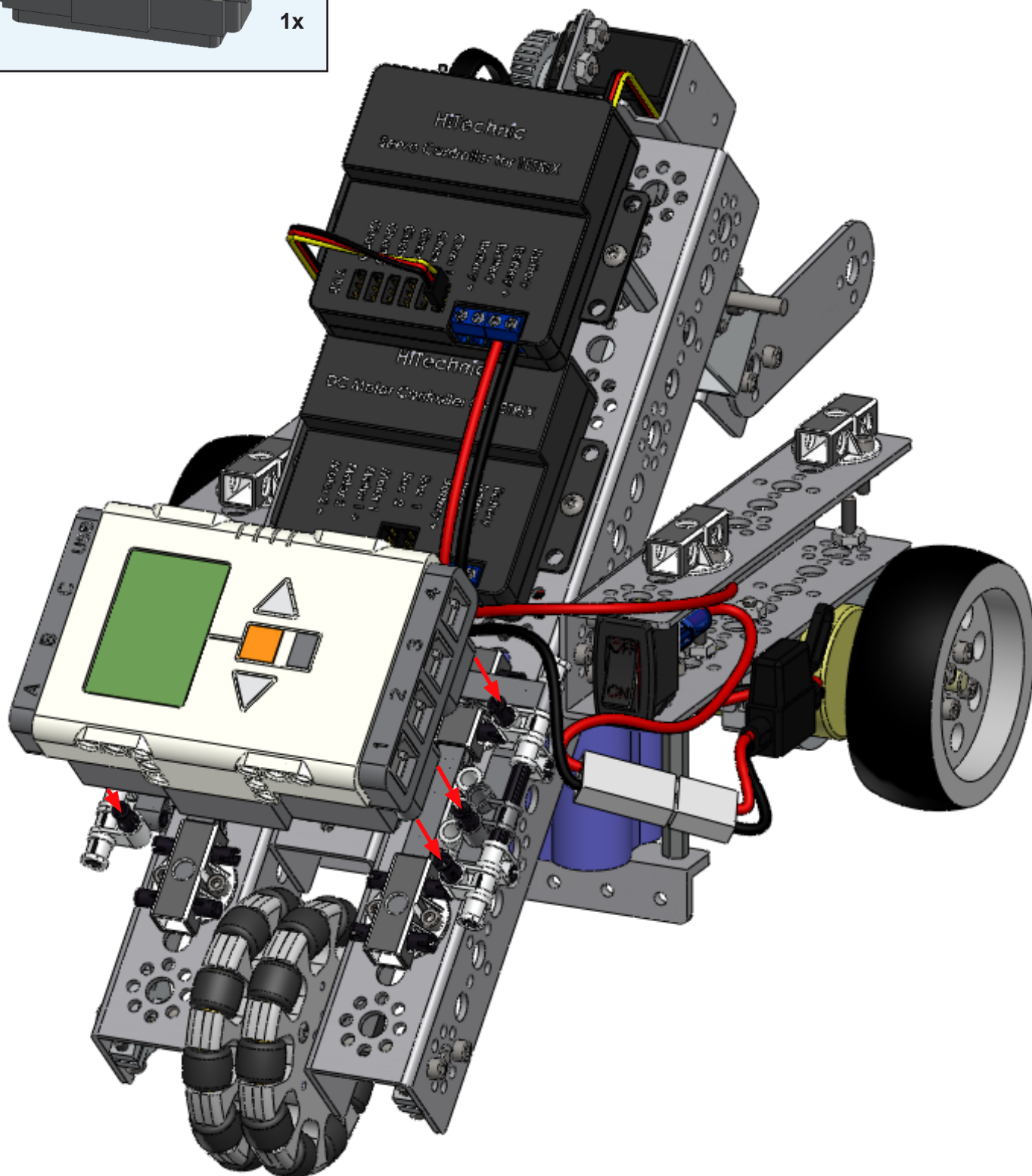
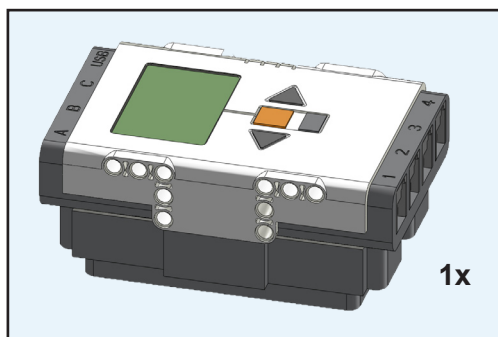




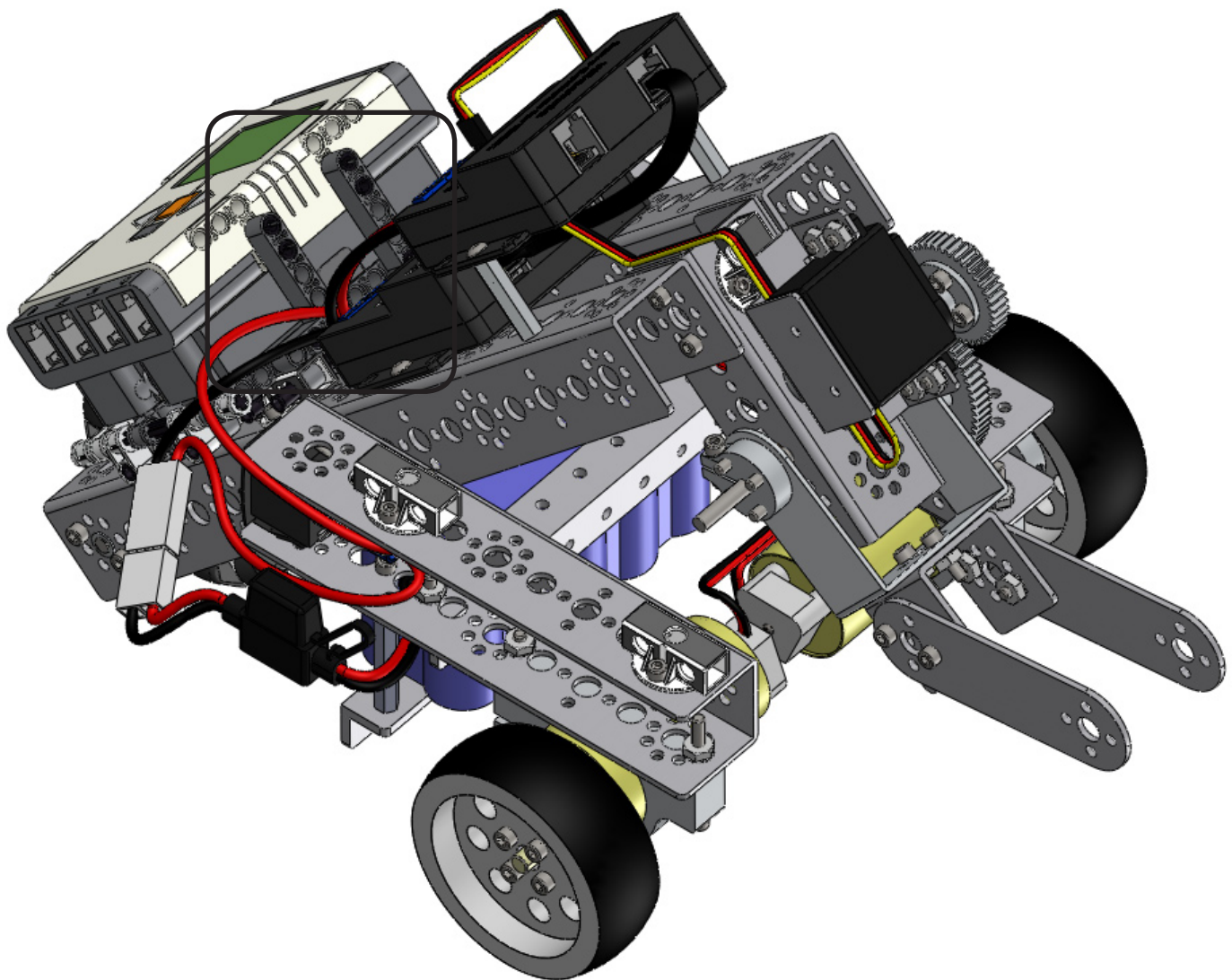
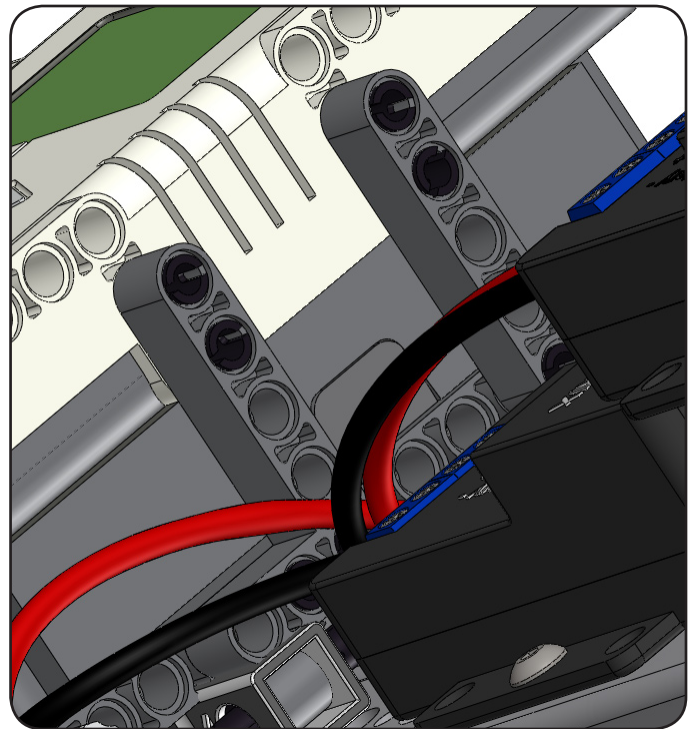
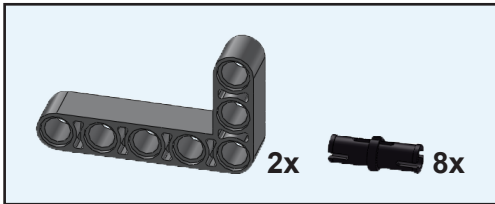
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