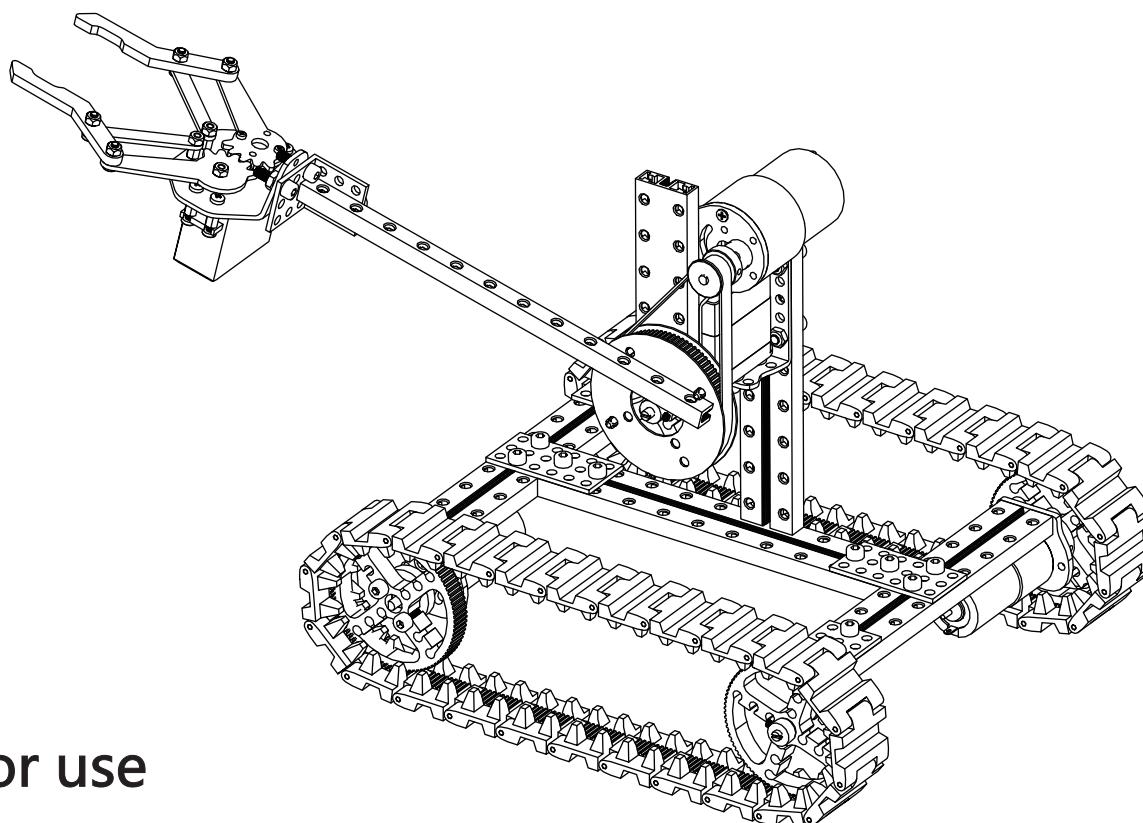


Makeblock

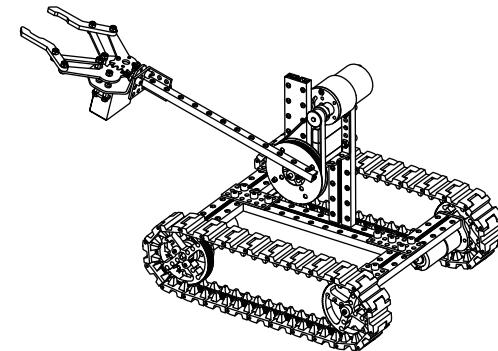
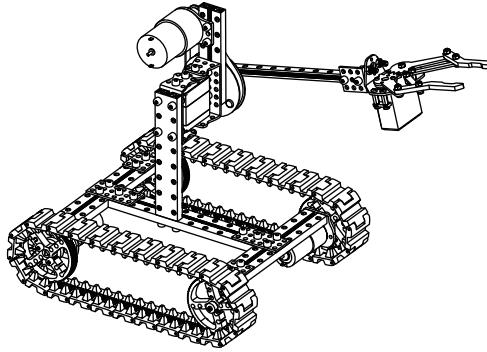
CONSTRUCT YOUR DREAMS



Suitable for use

- Ultimate kit
- Lab kit

GUIDE FOR BUILDING THE
2 DOF ROBOT



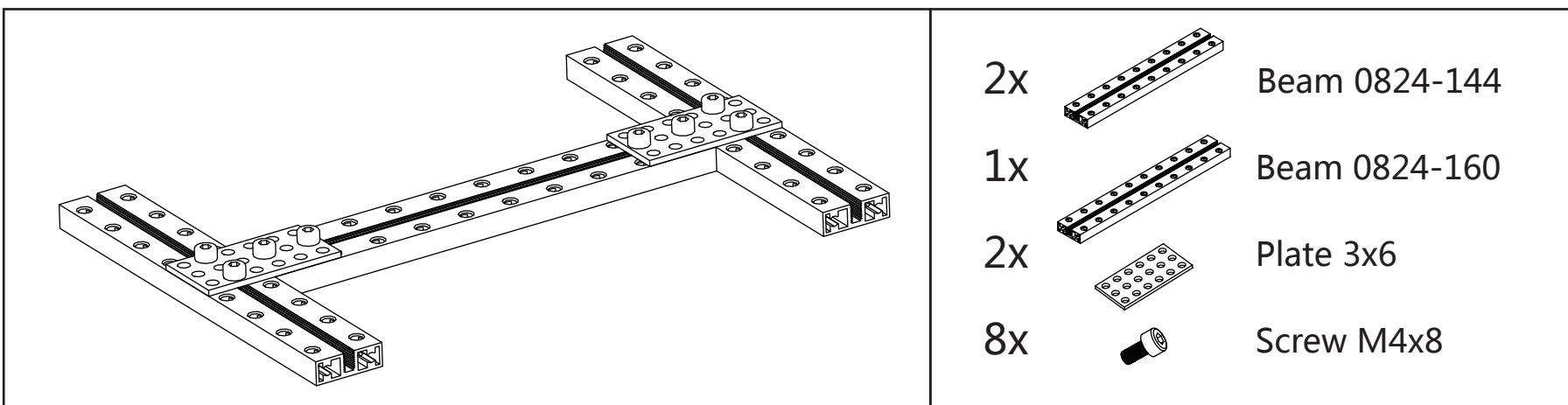
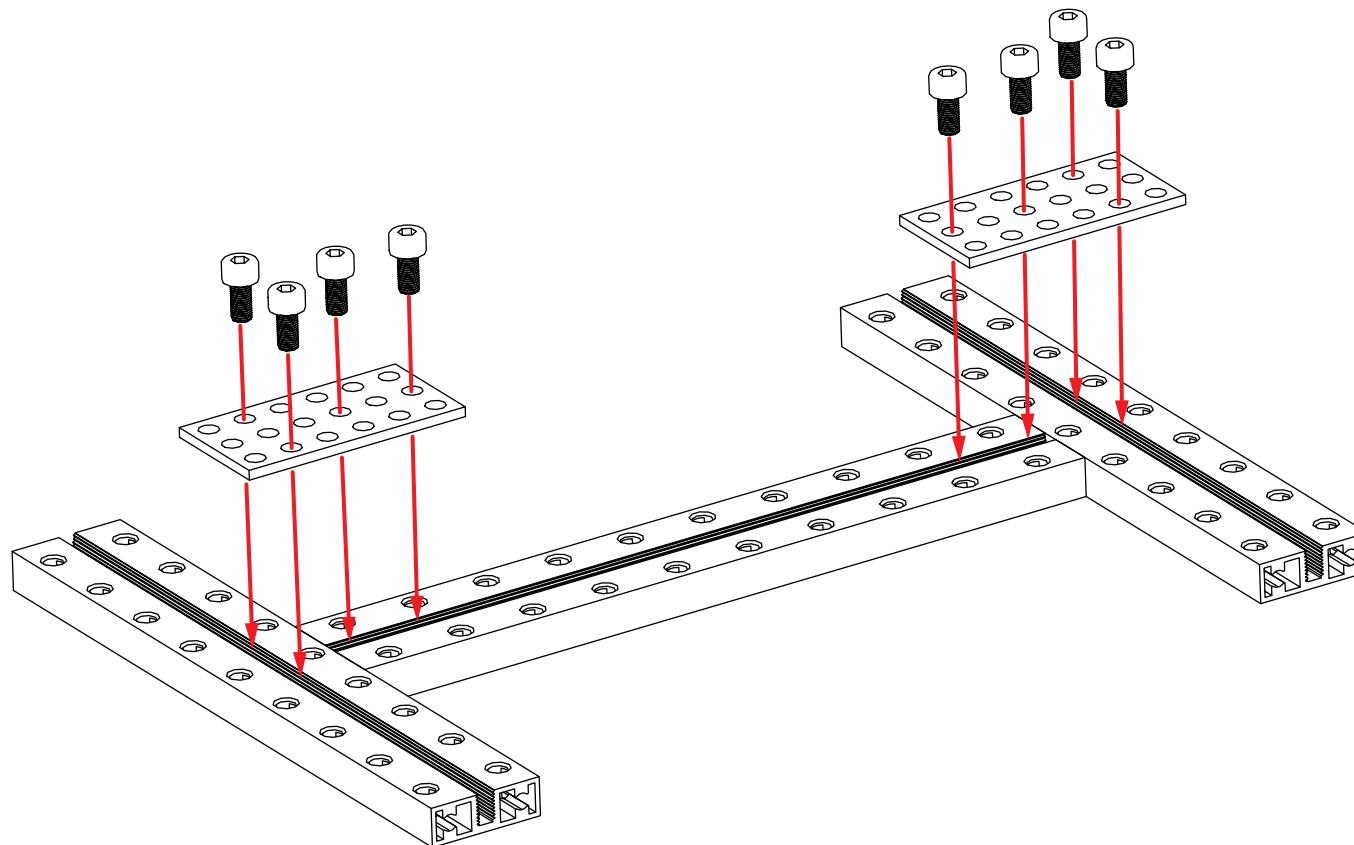
Part list

2x		Beam 0824-144
1x		Beam 0824-160
1x		Beam 0824-96
2x		Beam 0824-128
1x		Beam 0808-192
2x		Plate 3x6
3x		Bracket 3x3
5x		Timing Pulley 90T
1x		Timing Pulley 18T
2x		Timing Pulley Slice 90T

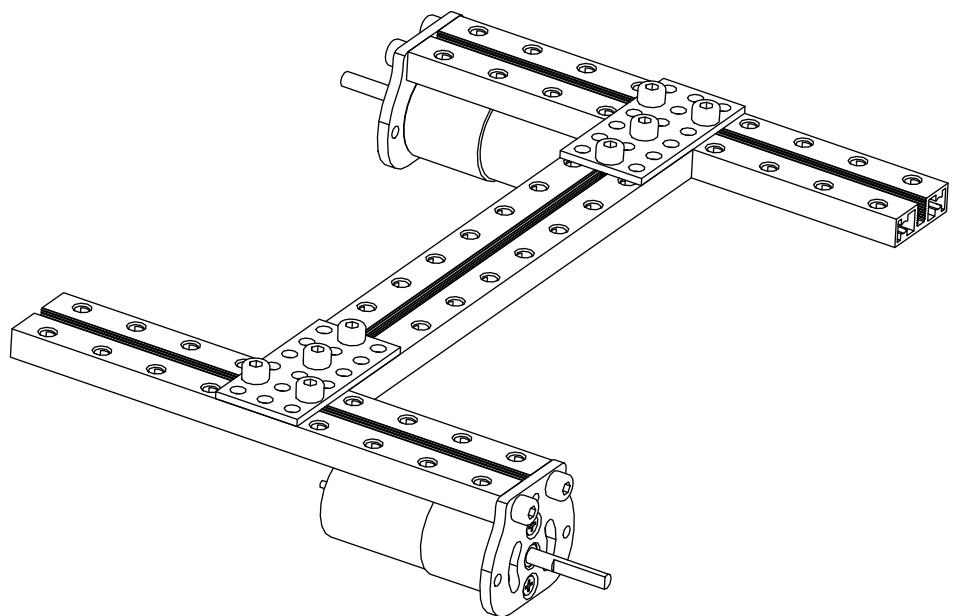
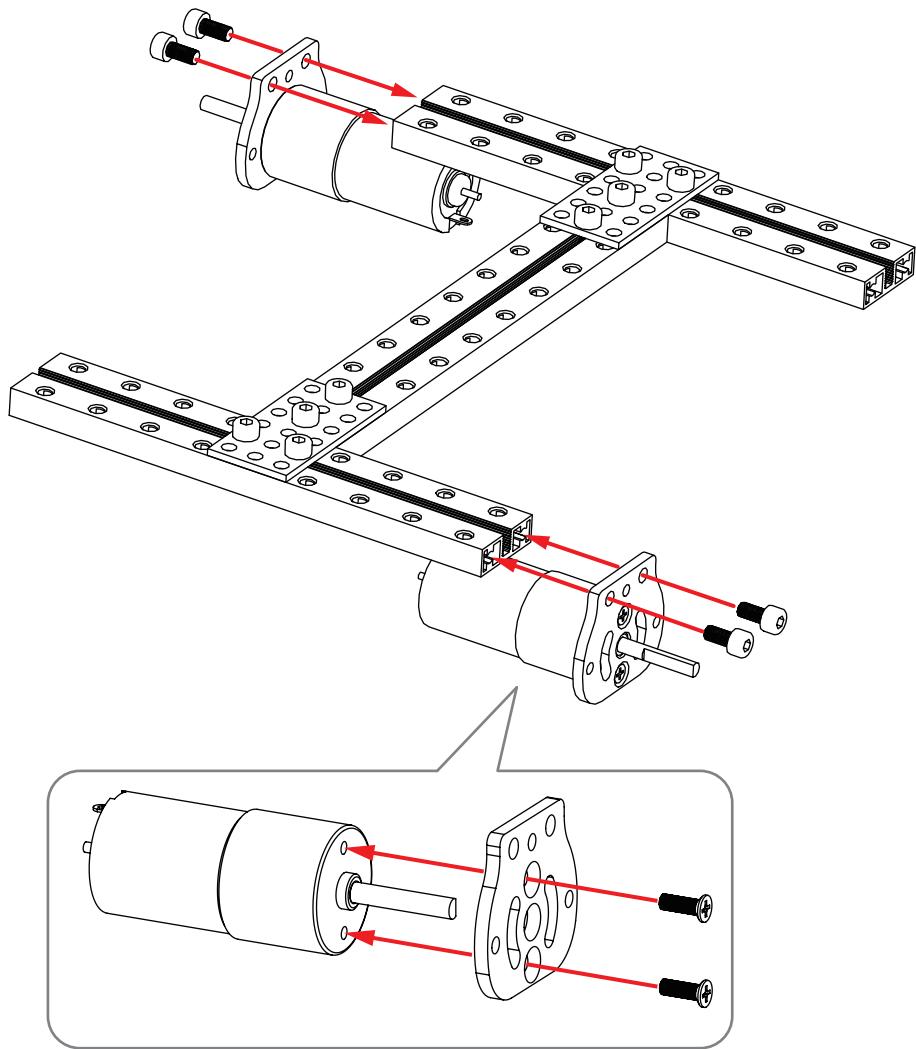
2x		DC Motor-25 Bracket
1x		DC Motor-37 Bracket
2x		MECDS-150 Servo Bracket
2x		DC Motor-25
1x		DC Motor-37
1x		MECDS-150 Servo Motor
1x		Robot Gripper and Servo
1x		MECDS-150 Servo Plate
3x		Threaded Shaft 4x31mm
2x		Shaft Connector-4
3x		Shaft Collar 4mm

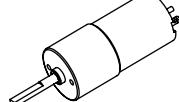
6x		Flange Bearing 4x8x3mm
31x		Screw M4x8
14x		Screw M4X14
6x		Countersunk Screw M3x8
6x		Headless Screw M3×5
1x		Timing Belt 123T
48x		Track
48x		Track Axle
9x		Nut M4
2x		Plastic Rivet R4120
11x		Plastic Ring 4x7x2

1



2



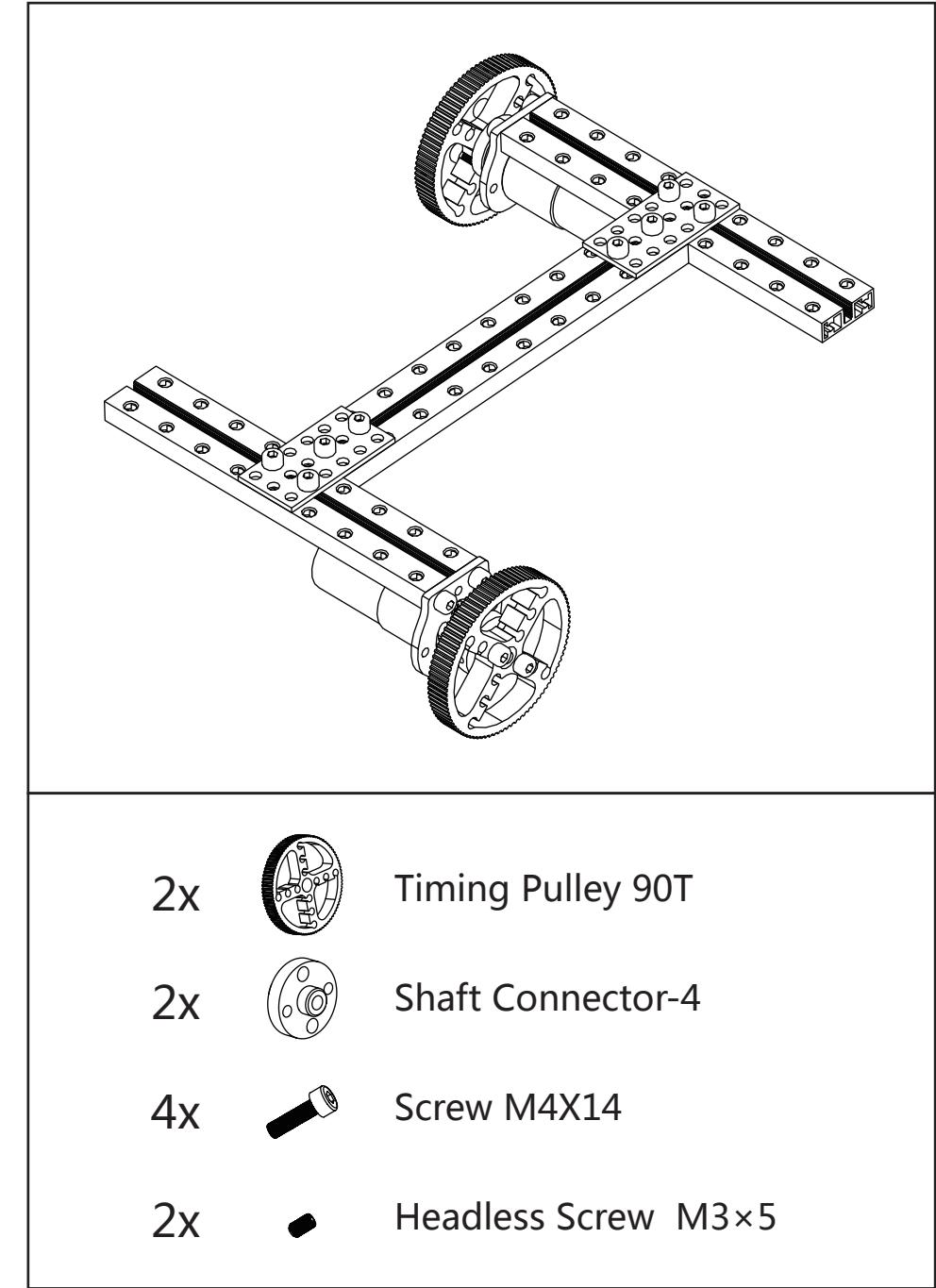
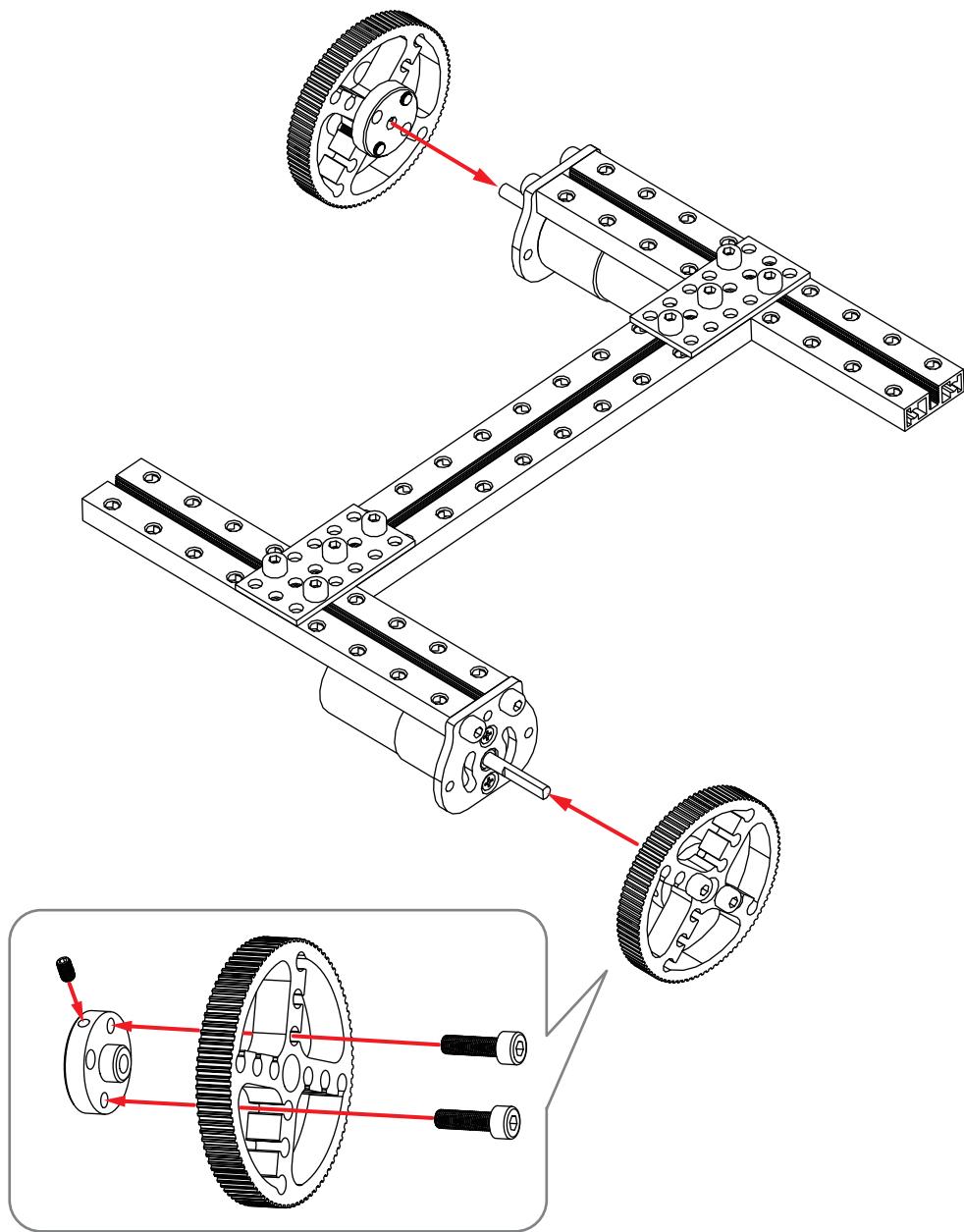
2x  DC Motor-25

2x  DC Motor-25 Bracket

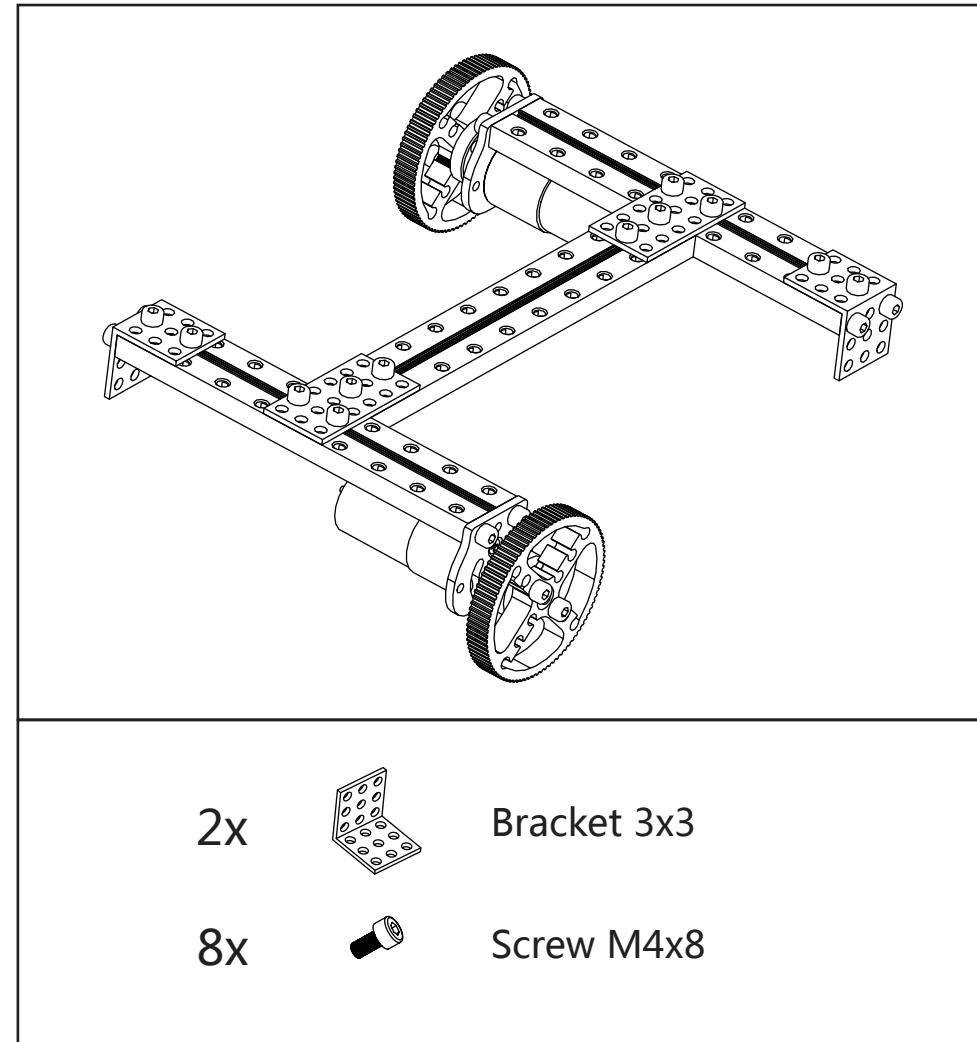
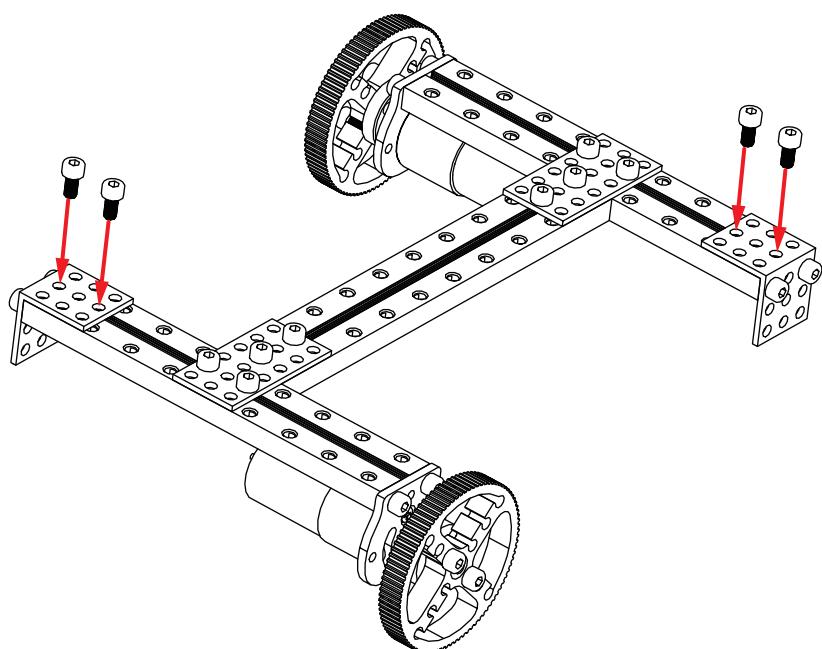
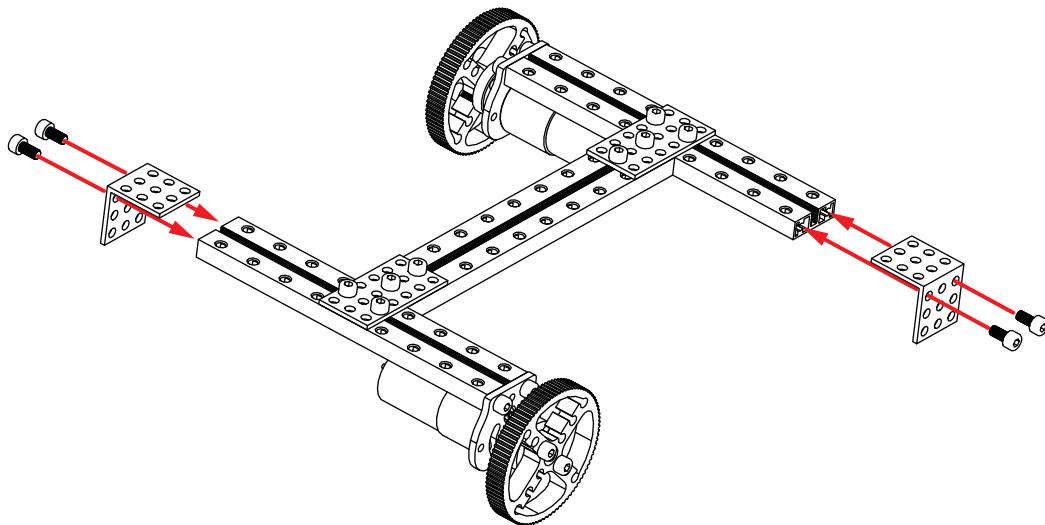
4x  Countersunk Screw M3x8

4x  Screw M4x8

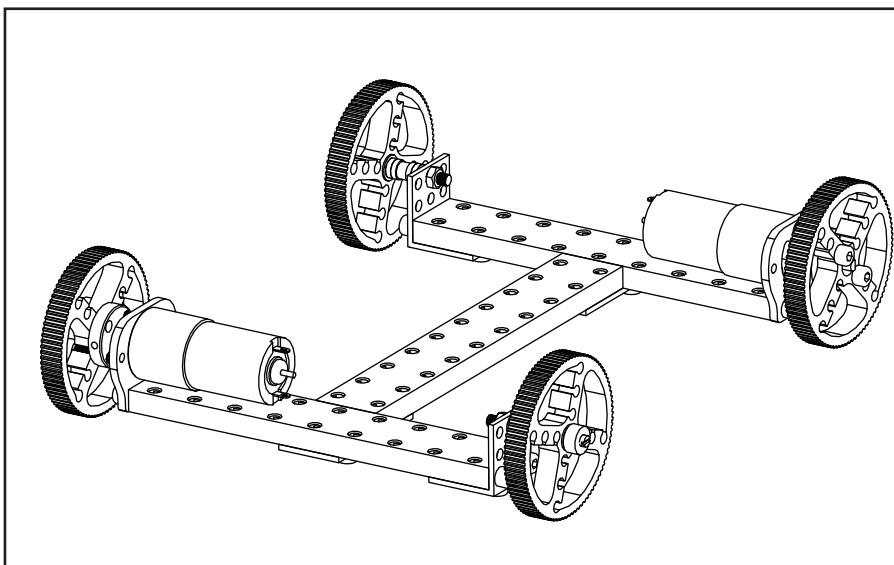
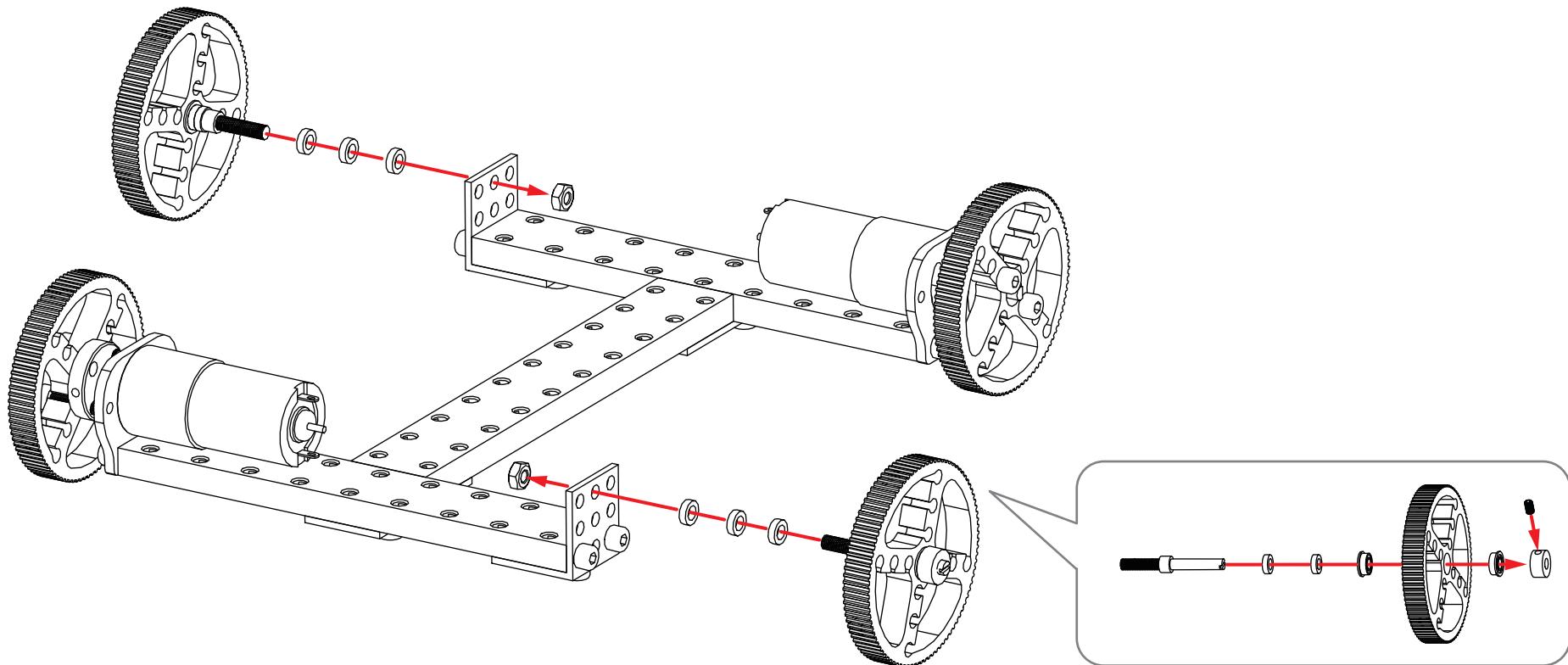
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4

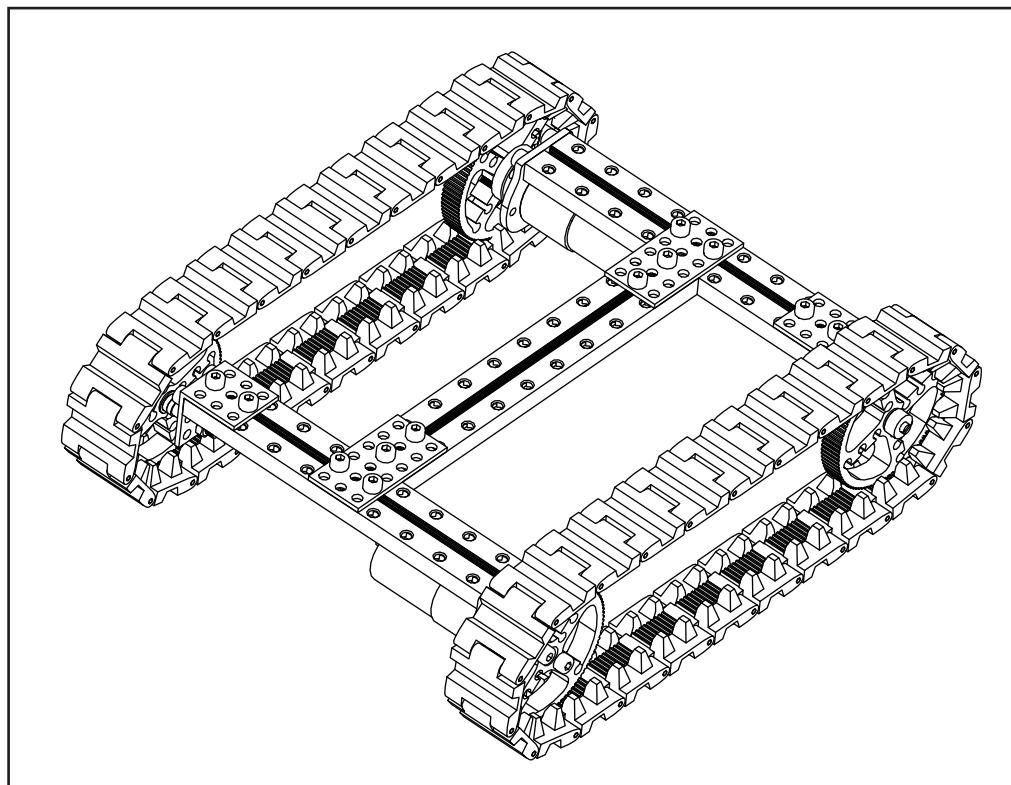
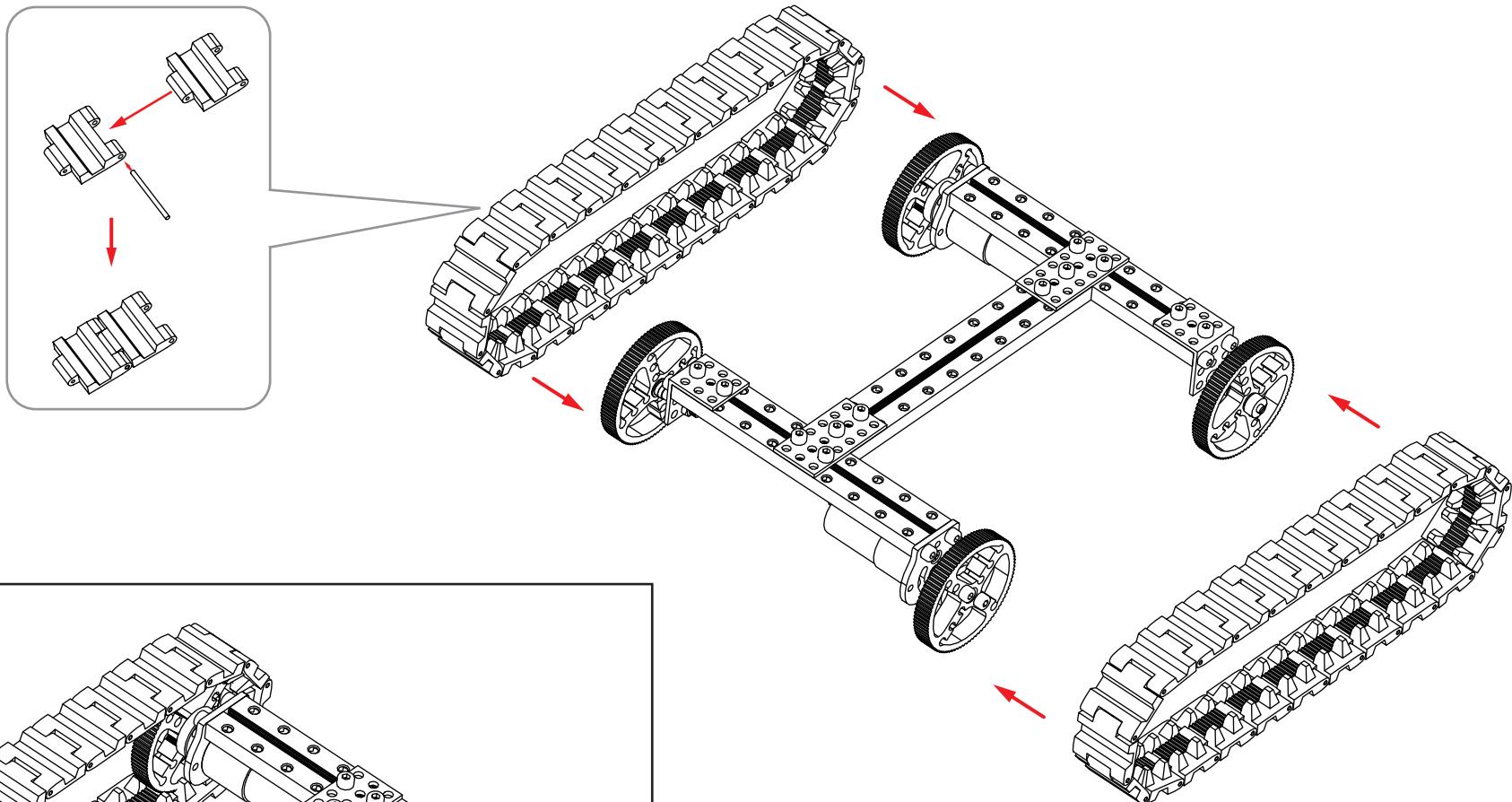


5



- | | | |
|-----|--|------------------------|
| 2x | | Timing Pulley 90T |
| 2x | | Threaded Shaft 4x31mm |
| 2x | | Shaft Collar 4mm |
| 2x | | Headless Screw M3x5 |
| 4x | | Flange Bearing 4x8x3mm |
| 10x | | Plastic Ring 4x7x2 |
| 2x | | Nut M4 |

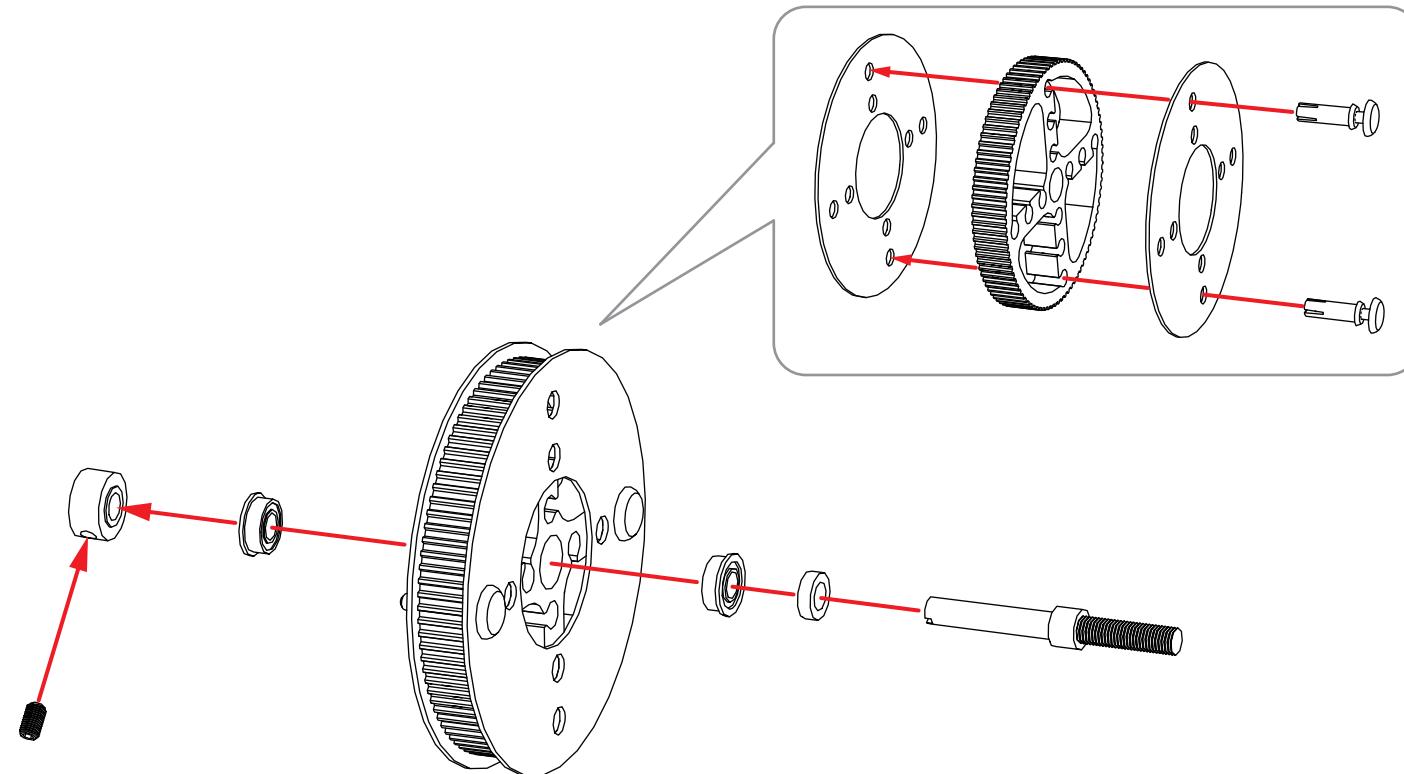
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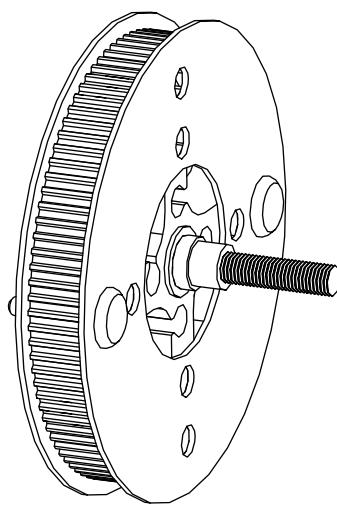


48x Track

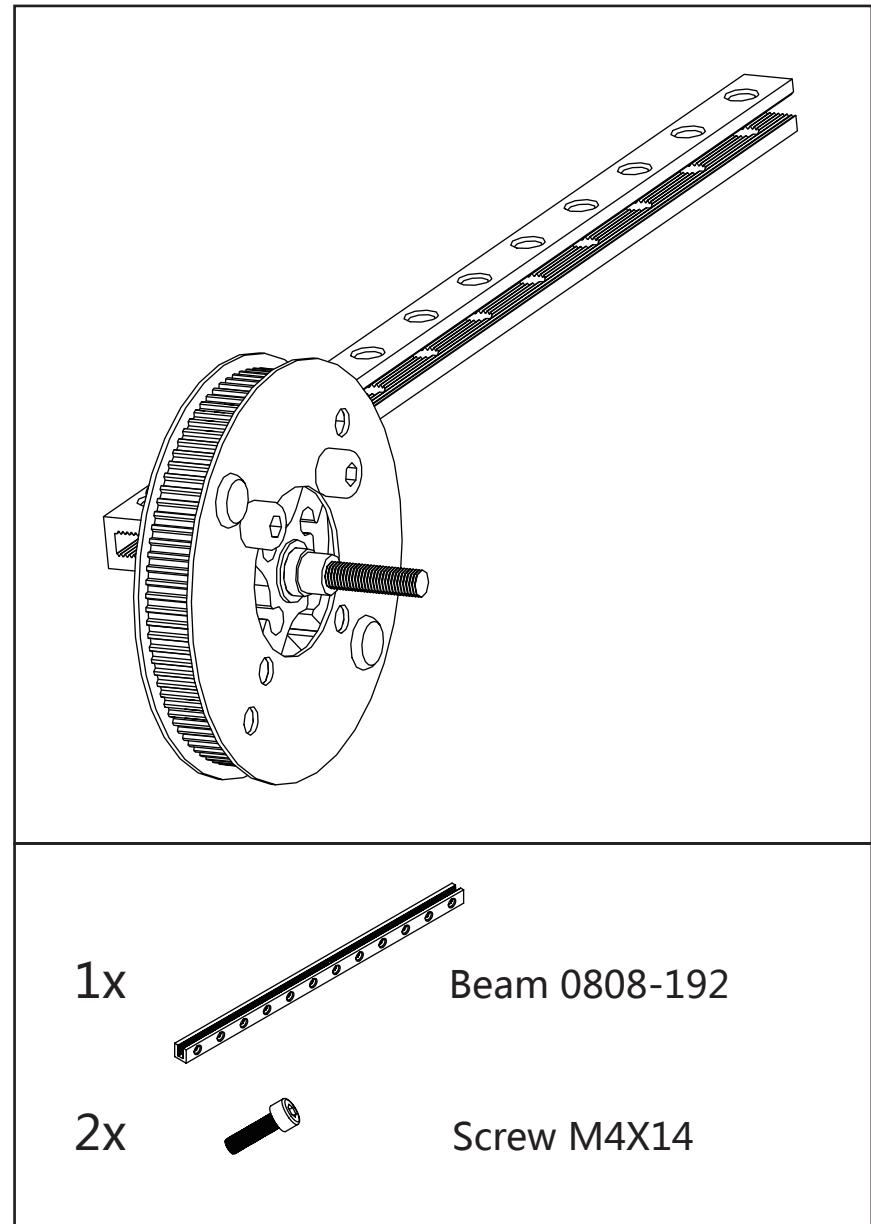
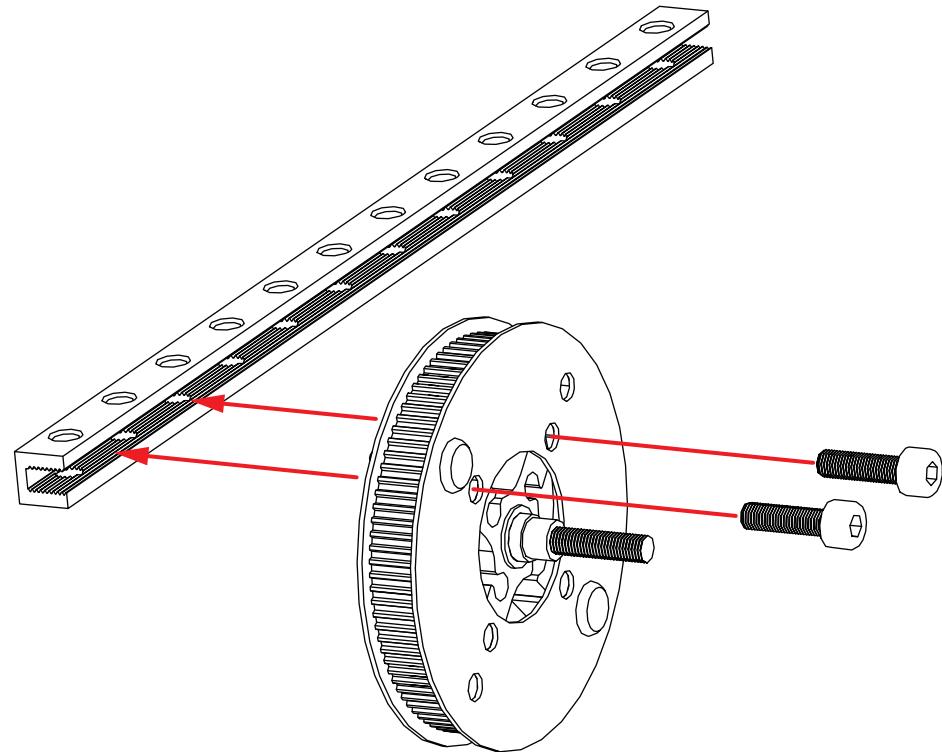
48x Track Axle

7

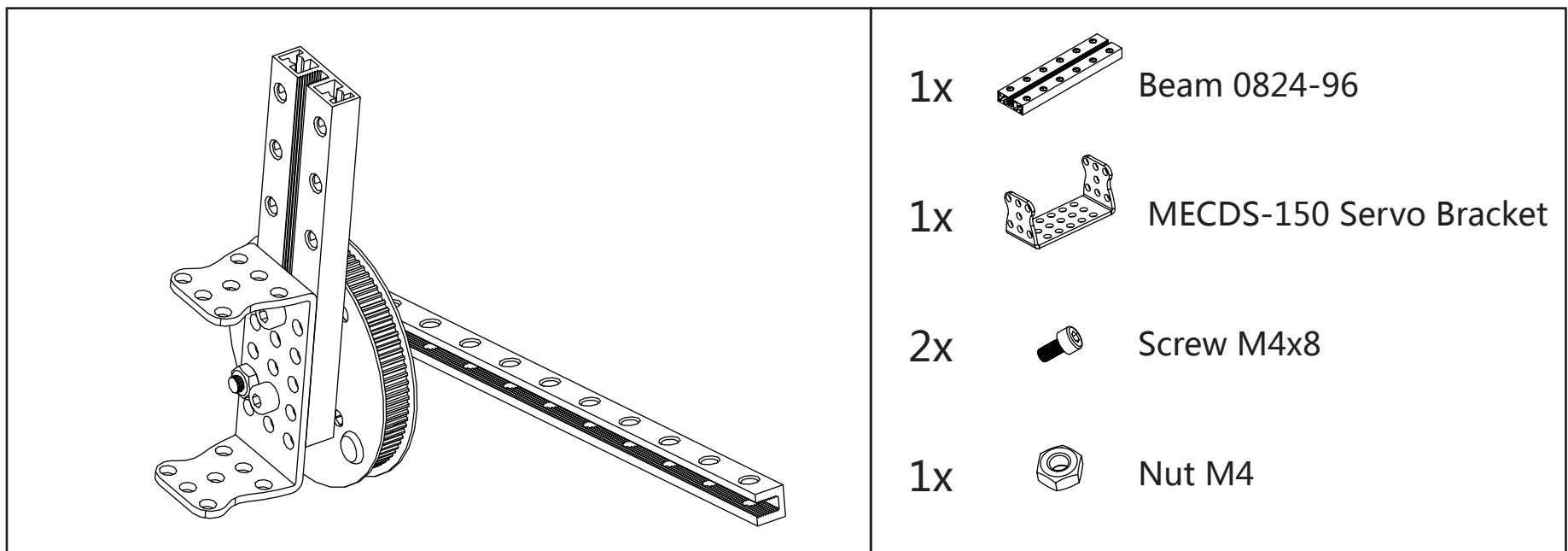
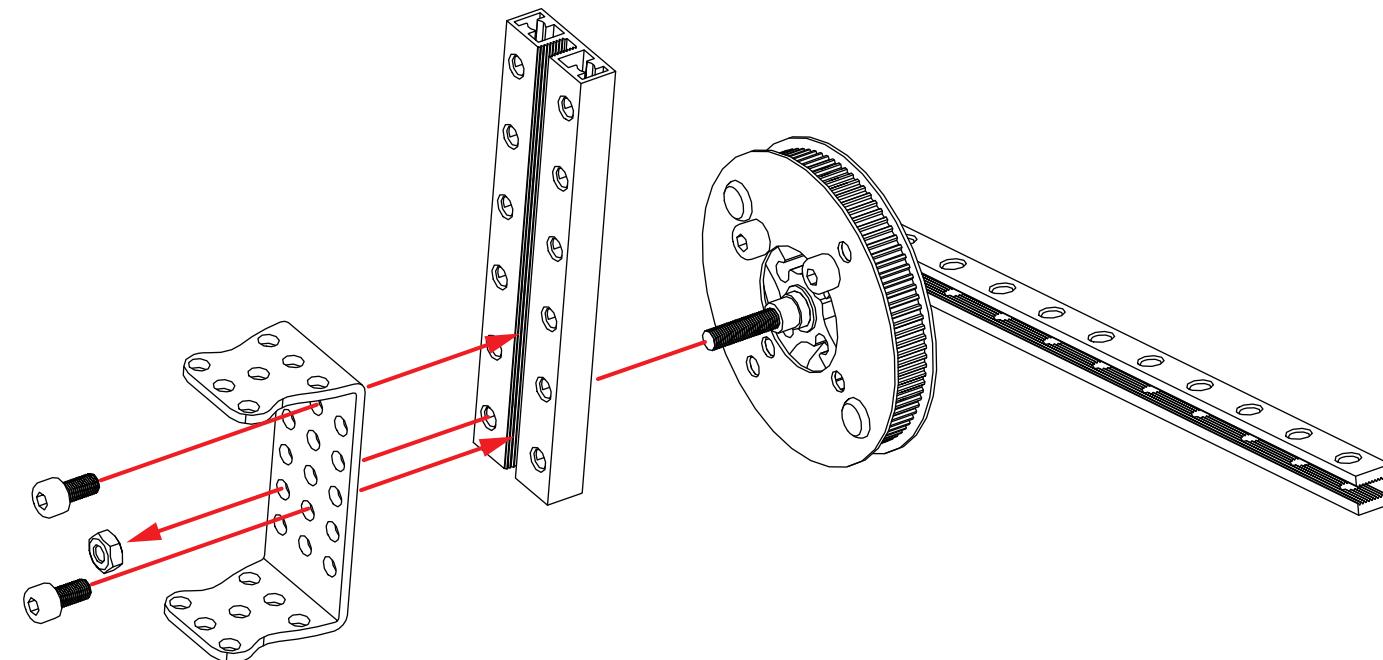


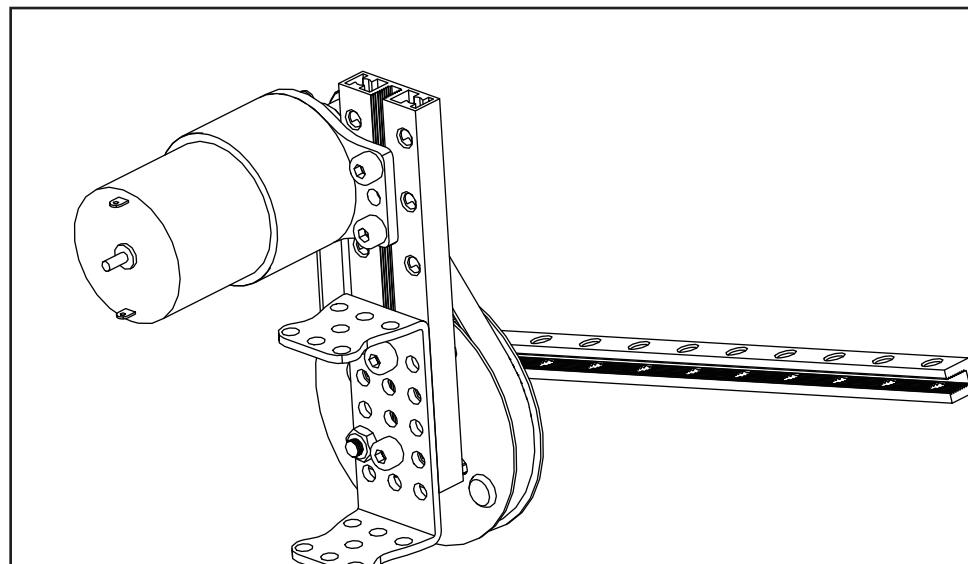
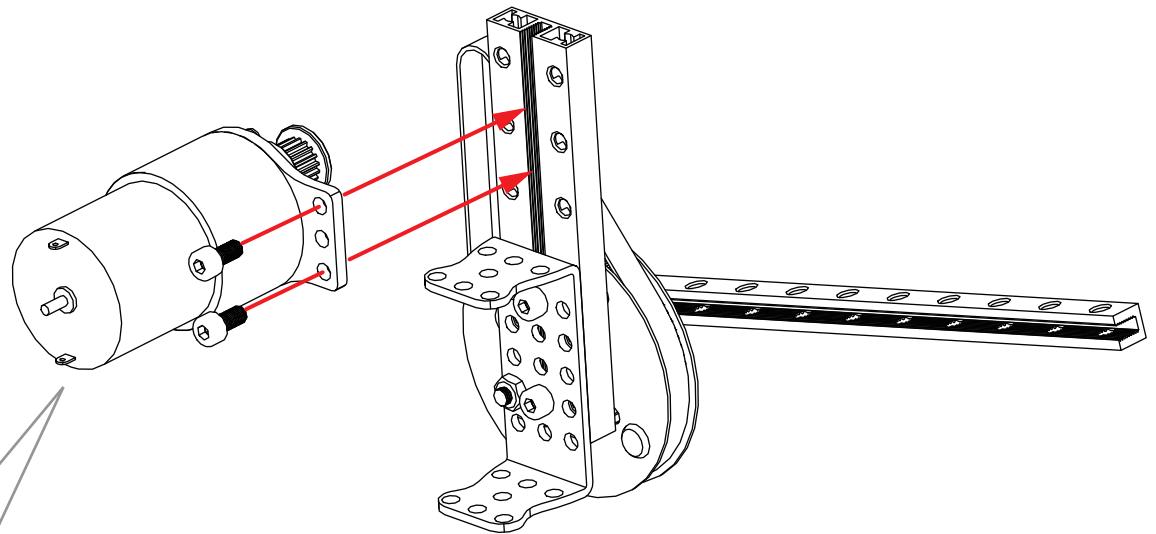
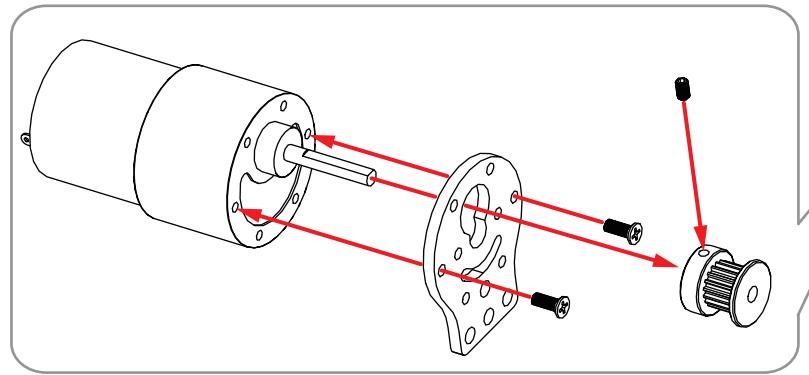
	<p>1x  Timing Pulley 90T</p> <p>2x  Timing Pulley Slice 90T</p> <p>2x  Plastic Rivet R4120</p> <p>1x  Threaded Shaft 4x31mm</p>	<p>2x  Flange Bearing 4x8x3mm</p> <p>1x  Plastic Ring 4x7x2</p> <p>1x  Shaft Collar 4mm</p> <p>1x  Headless Screw M3x5</p>
------------------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

8



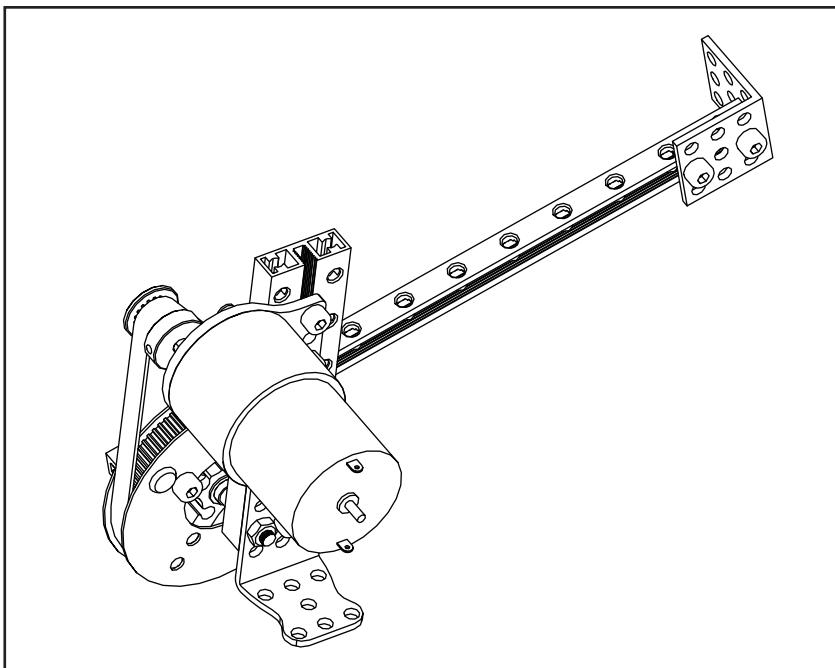
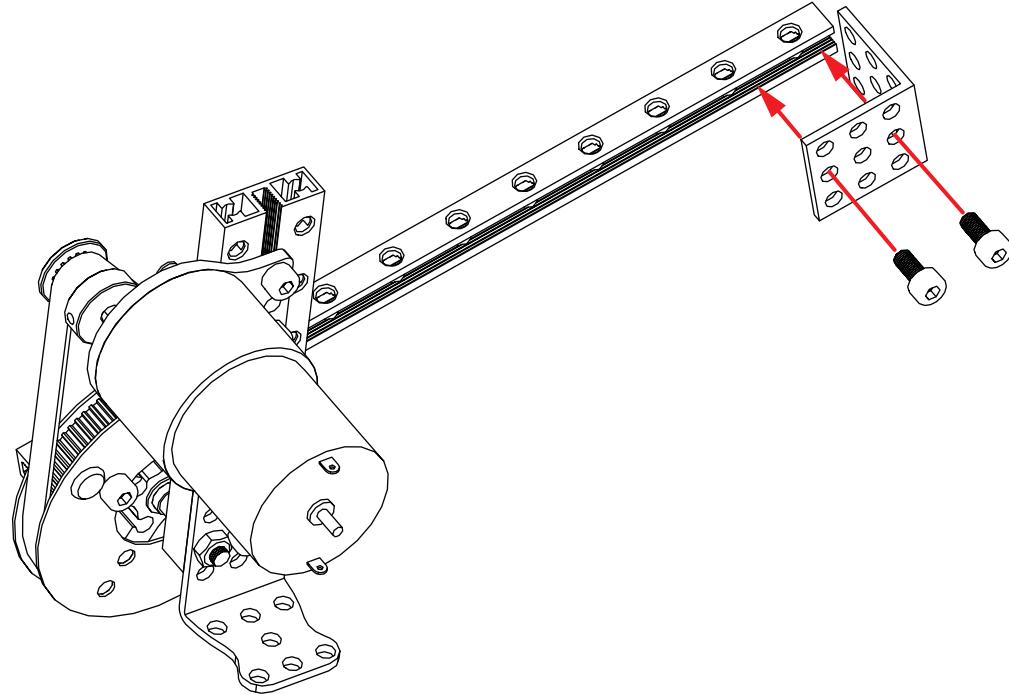
9





- | | | |
|----|--|------------------------|
| 1x | | DC Motor-37 |
| 1x | | DC Motor-37 Bracket |
| 1x | | Timing Pulley 18T |
| 2x | | Countersunk Screw M3x8 |
| 1x | | Headless Screw M3×5 |
| 2x | | Screw M4x8 |
| 1x | | Timing Belt 123T |

11



1x



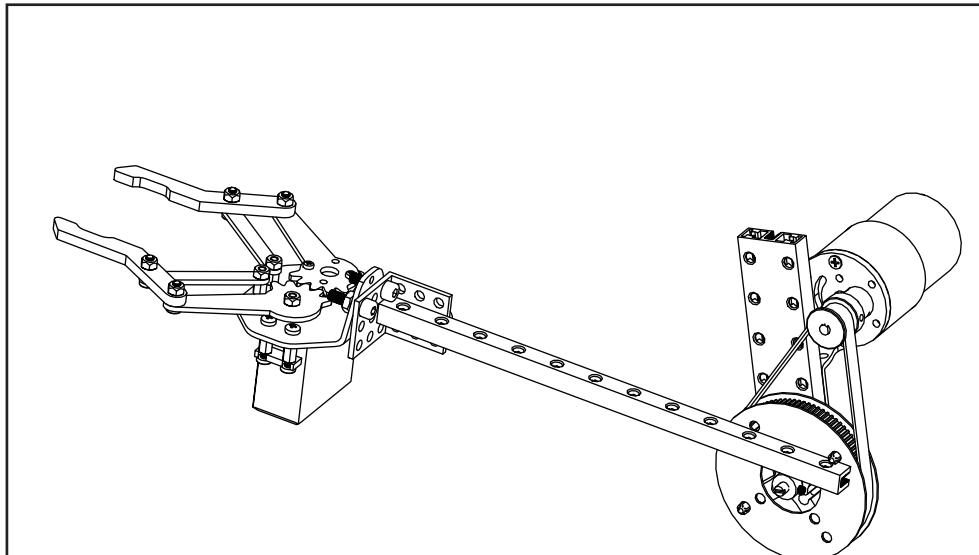
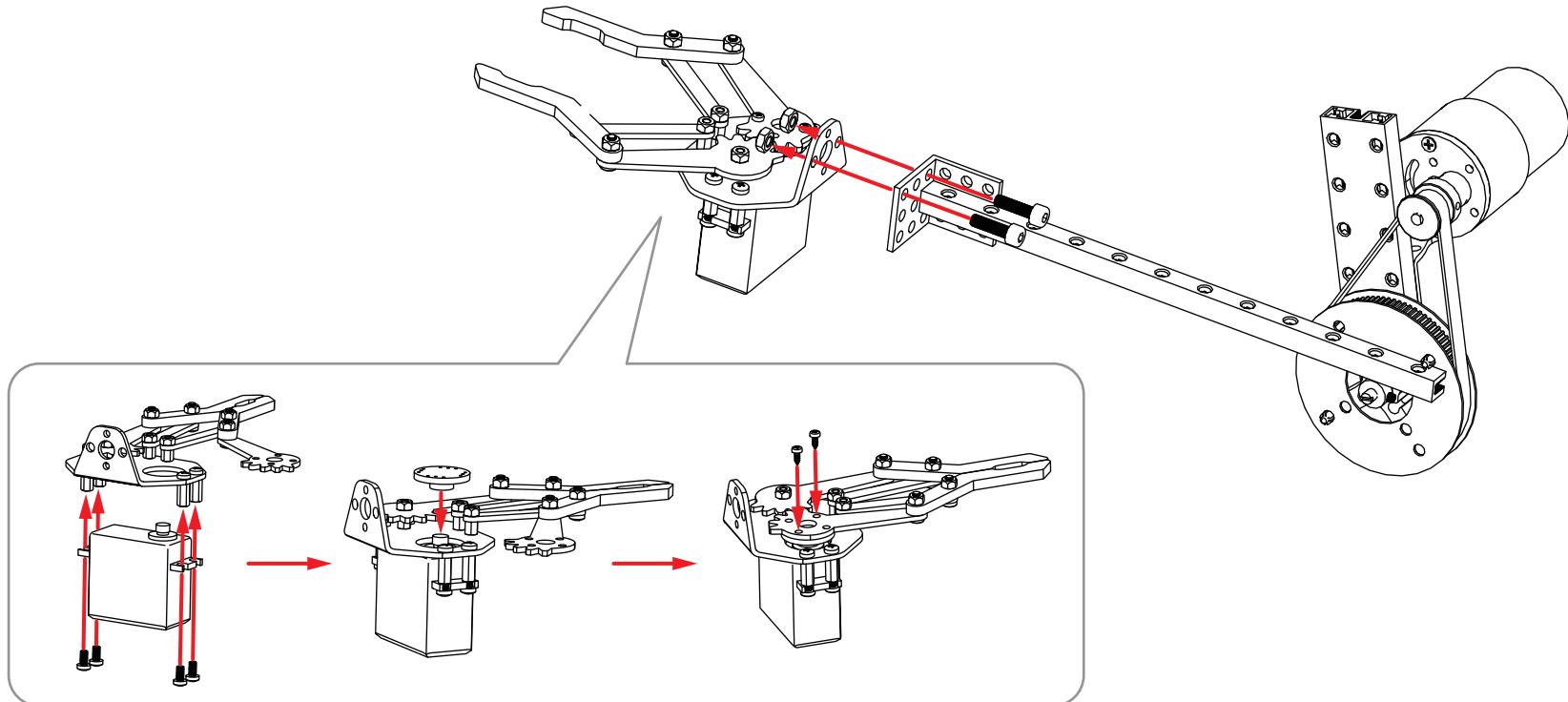
Bracket 3x3

2x



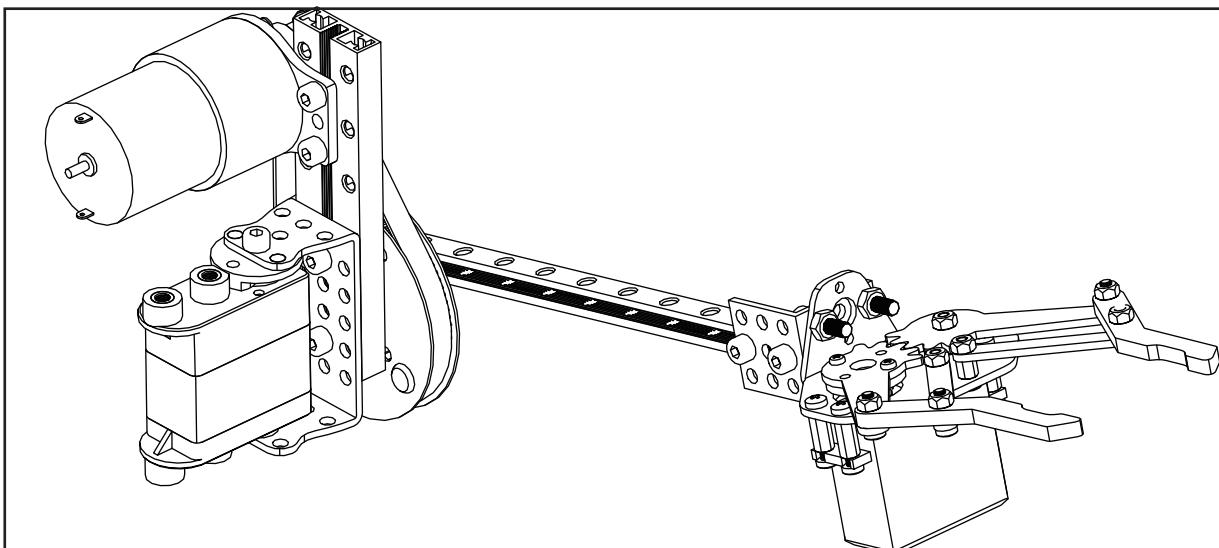
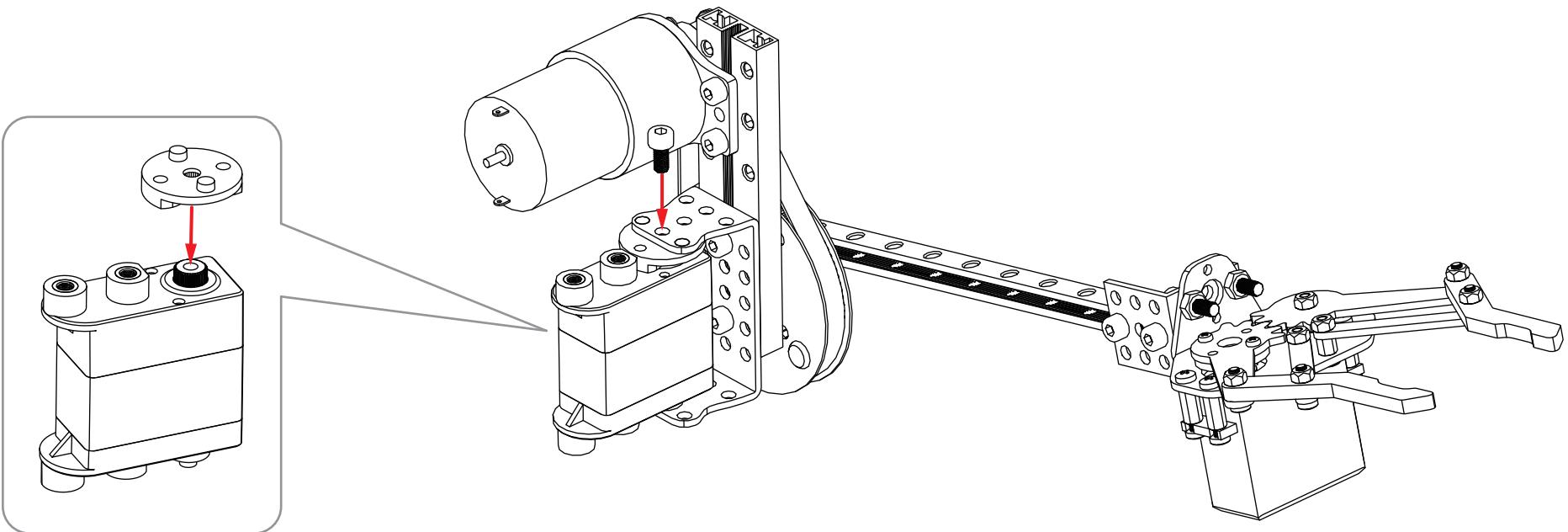
Screw M4x8

12

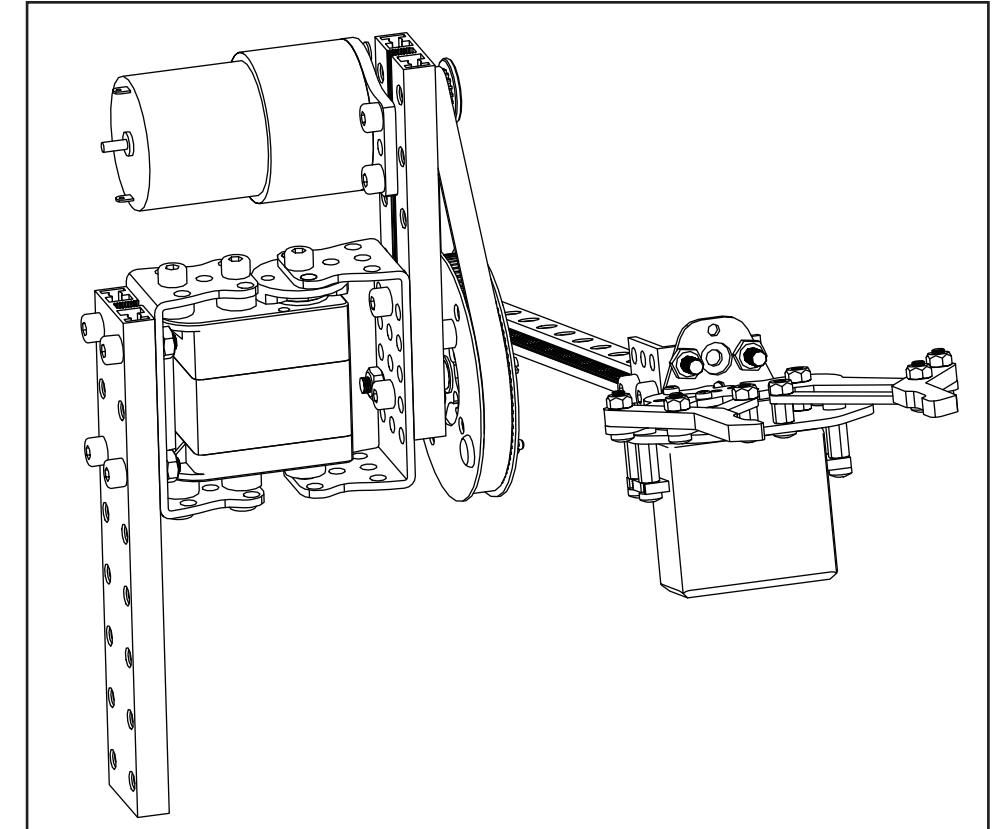
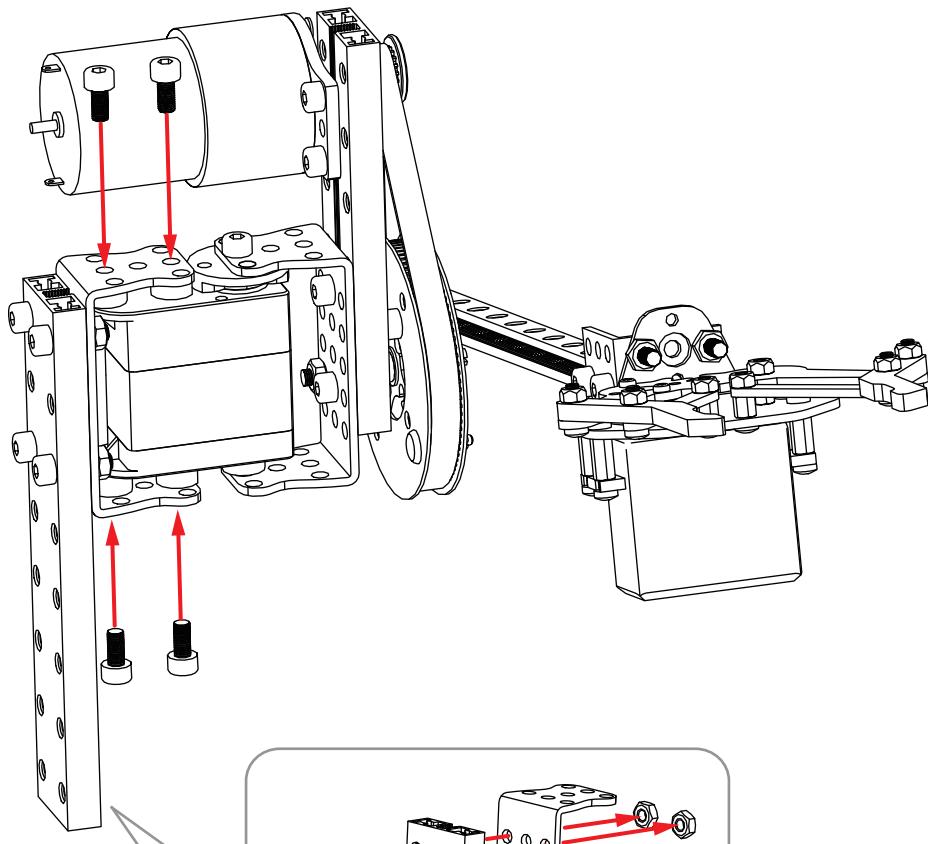


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|----|--|-------------------------|
| 1x | | Robot Gripper and Servo |
| 2x | | Screw M4X14 |
| 2x | | Nut M4 |

13



- | | | |
|----|--|-----------------------|
| 1x | | MECDS-150 Servo Motor |
| 1x | | Servo Plate |
| 1x | | Screw M4x8 |



1x Beam 0824-128

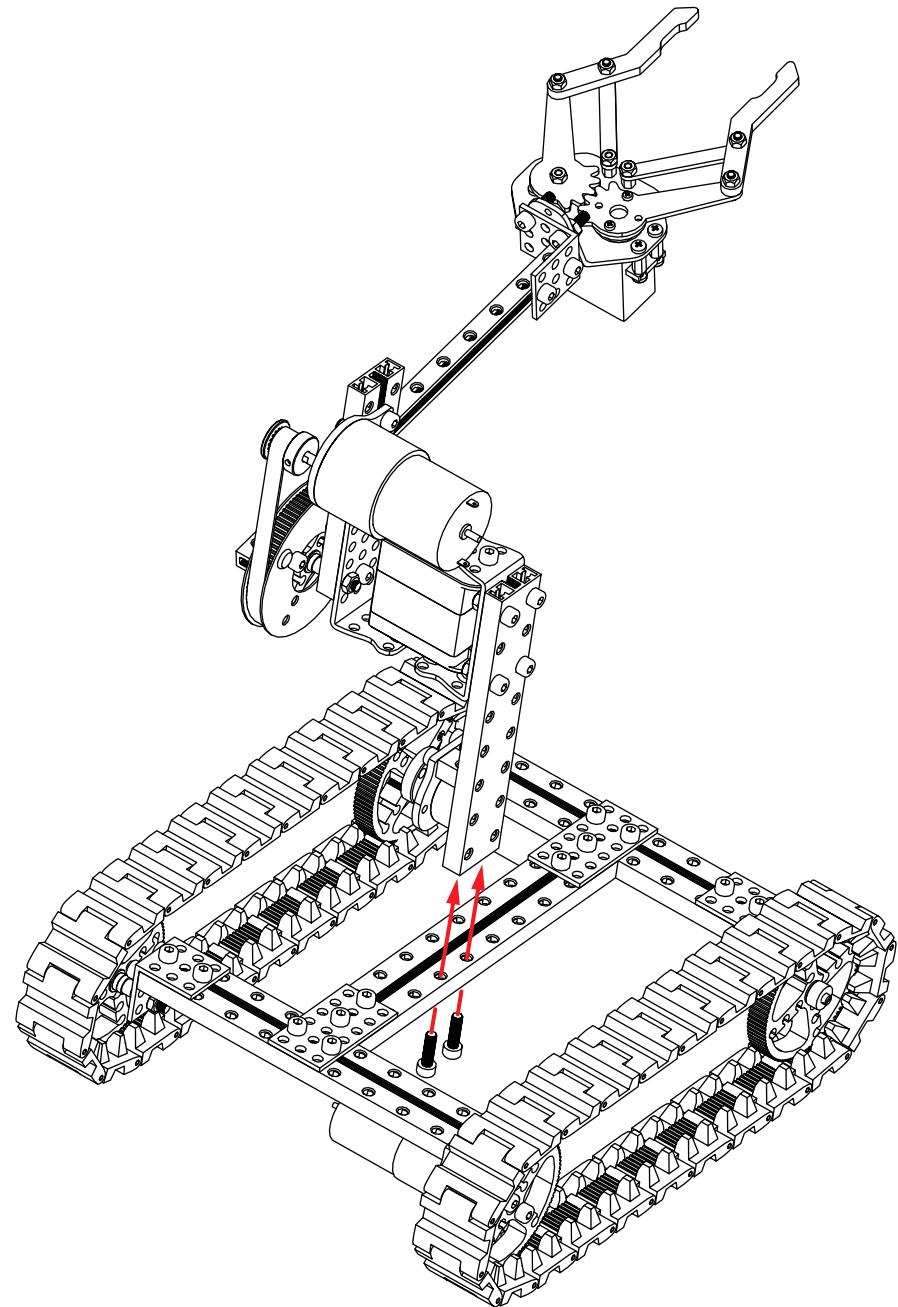
1x MECDS-150 Servo Bracket

4x Screw M4X14

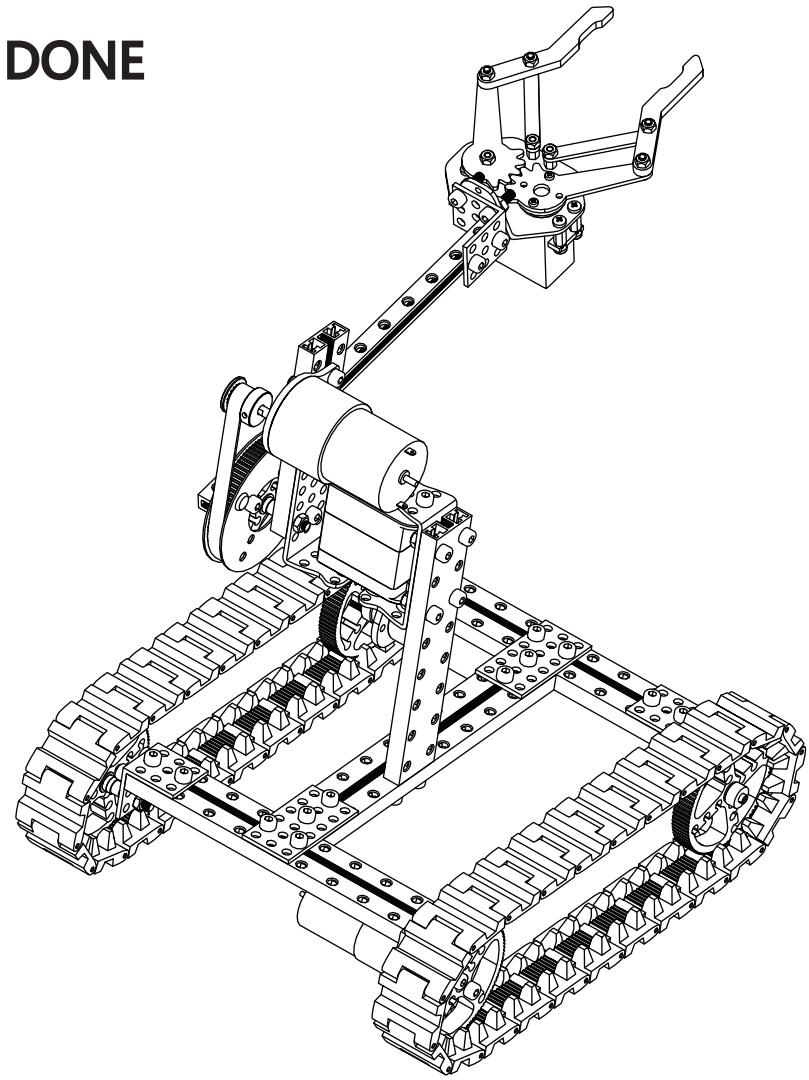
4x Nut M4

4x Screw M4x8

15



DONE



2x



Screw M4X14