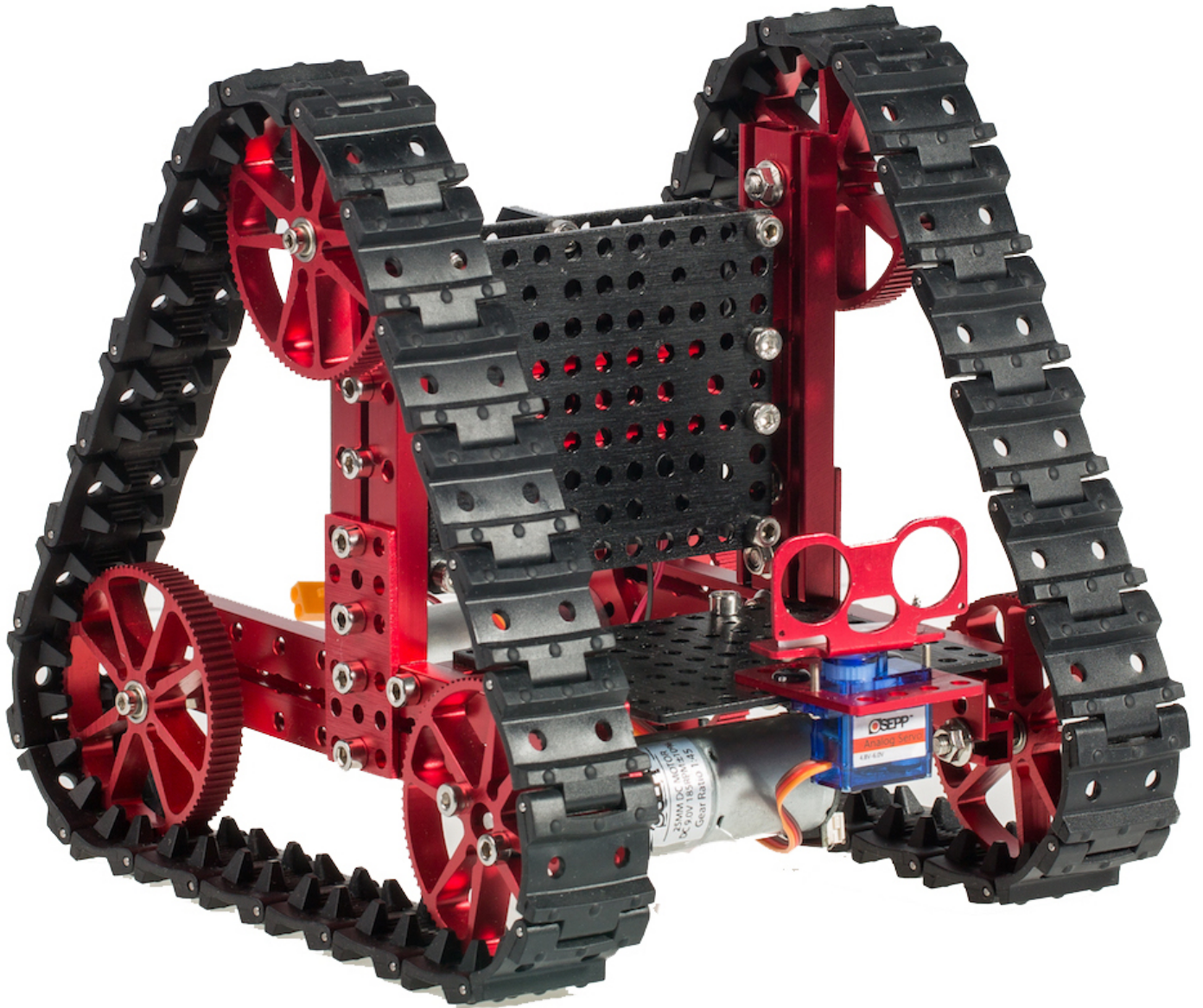


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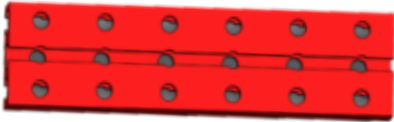






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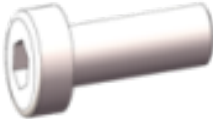
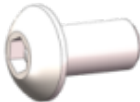
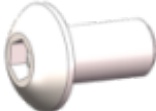

# TRIANGULAR TANK MECHANICAL KIT




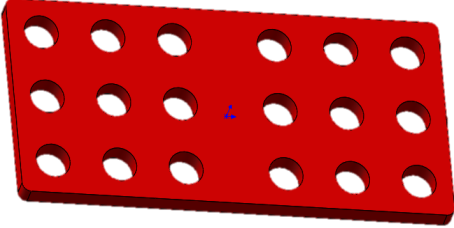
# PARTS INCLUDED

Materials	QTY
Double Beam -9 	2
Double Beam -6 	4
Double Beam -8 	2
RIM -90T 	6
Base Plate 	4
Shaft Connector 4mm 	2
DC Motor -25 Bracket 	2
ultrasonic Mount 	1

Threaded Shaft 4x39mm		4
Beam Connector		8
Tracks		50
Track Axle		50
Wrench		1
DC Motor -25 w/pcb		2
Battery Holder 6AA		1
Flange Bearing 4x8x3mm		8
Standoff M4*15		8

Plastic Ring 4x7x2mm		10
plastic clip		10
Motor Cable		2
Terminal Block		4
Headless Screw M4x8		10
Headless Screw M3x10		4
Screw M4x22		5
Screw M4x14		20
Screw M4x12		20
Screw M4x8		20
Screw M3x8 - Flat Head		10
Screw M3x6 - HEX		10
Nut M4		20






Analog Servo		1
Servo Accessory Set (servo horn, bracket, screws)		1
Hex Allen Key 3.0mm		1
Hex Allen Key 2.5mm		1
Hex Allen Key 2.0		1
Hex Allen Key 1.5		1
Wrench		1
Plate B 3X6		2
Phillips Screwdriver		1

# ASSEMBLY INSTRUCTIONS

## Attaching Motors

### *Parts List:*

DC Motor		1
DC Motor -25 Bracket		1
Screw M3x8 - Flat Head		2
Phillips Screwdriver		1


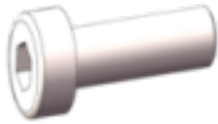


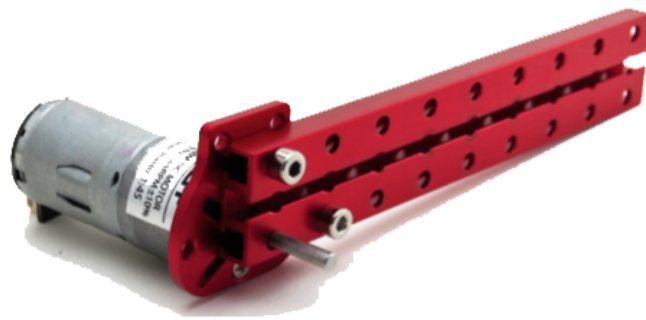
Attach the **shaft of the motor** inside the center hole of the **mounting bracket**. Use a **Phillips head screwdriver** to attach the bracket to the DC motor.



# Attaching DC motor to Double Beam

## Parts List:








Double Beam -9		1
Hex Allen Key 3.0mm		1
Screw M4x12		2



Attach the mounted DC motor to the **Double Beam 09** with the **M4 screws**.

# Installing the Rim and Shaft Connector

## Parts List:

Plastic Ring 4x7x2mm		2
Threaded Shaft 4x39mm		2
RIM -90T		2
Flange Bearing 4x8x3mm		2
Screw M3x6 - HEX		2
Hex Allen Key 2.5mm		1
Shaft Connector 4mm		2
Headless Screw M3x10		2





Insert the **threaded shaft** through the **RIM-90T** center. Add a flange to each end. Screw the **M3** into the threaded shaft.



Insert the **headless screw** into the center of the **shaft connector**.




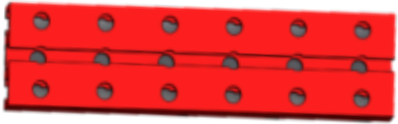




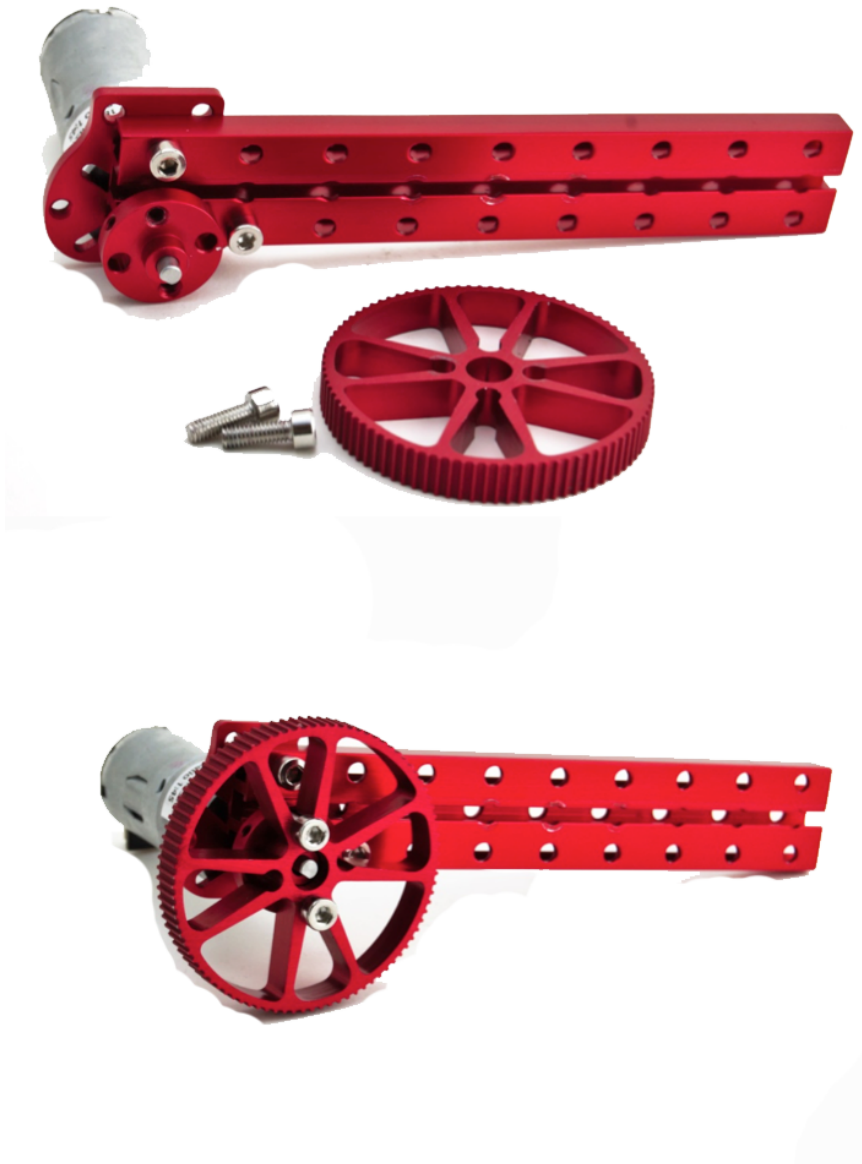
Place the **plastic ring** first through the DC motor shaft.  
Attach the shaft connector to the DC motor shaft. Tighten  
the headless screw.



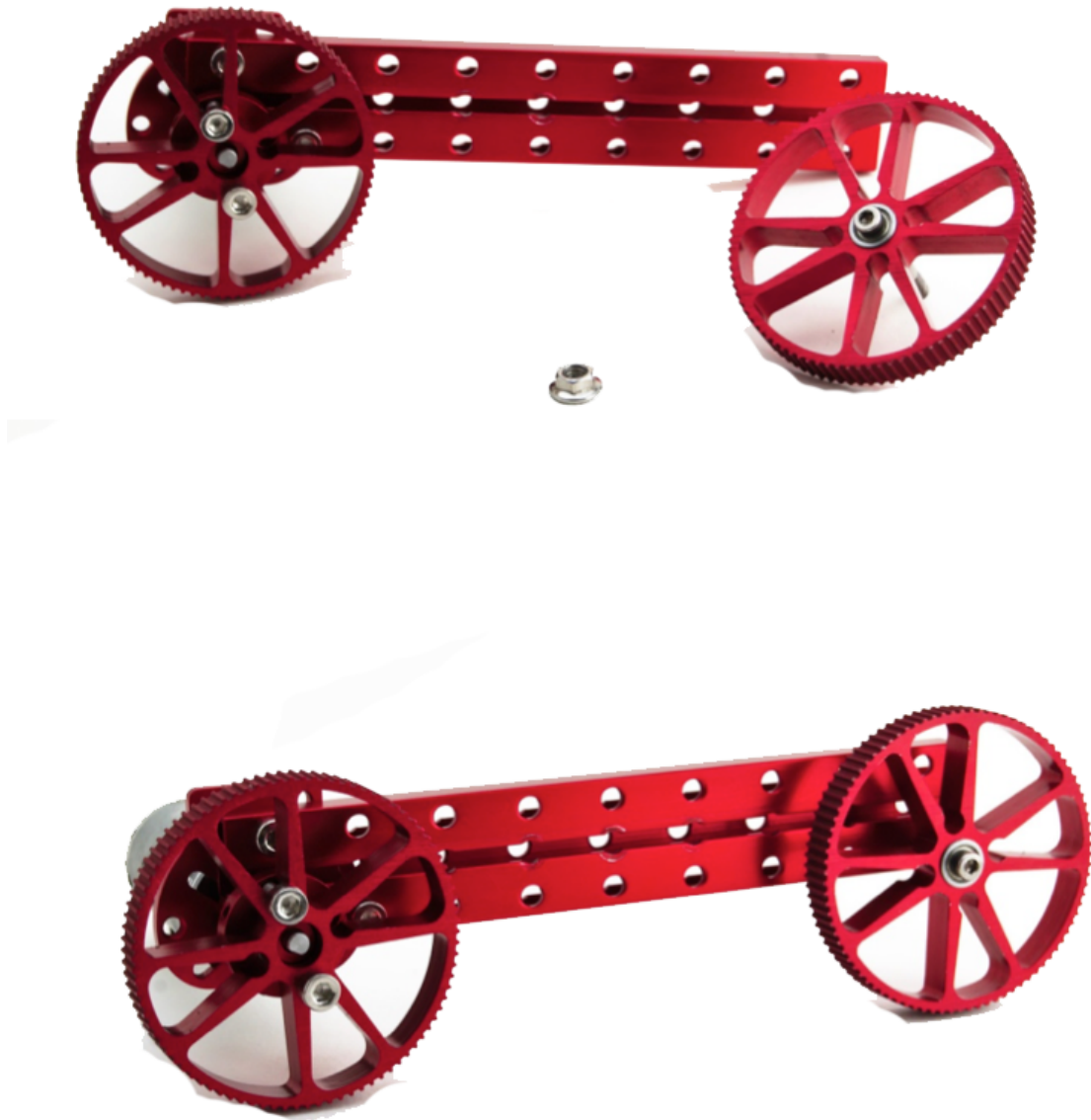
# The Rim

## Parts List:

RIM -90T		2
Screw M4x14		2
Hex Allen Key 3.0mm		1
Nut M4		1
Wrench		1
Double Beam -6		1
Beam Connector		4
Headless Screw M4x8		4
Hex Allen Key 2.0		1



Attach the Rim to the motor bracket with the M4 screws.

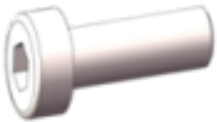



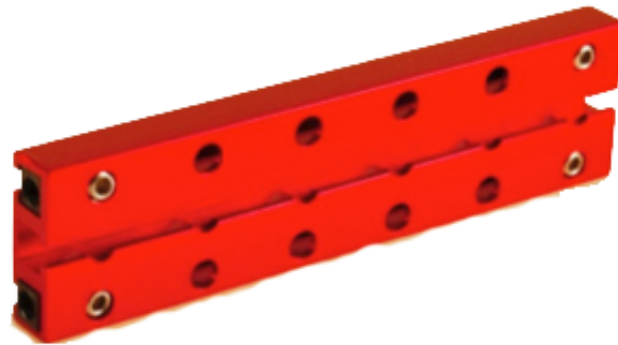
attach the other rim to the **double beam**. Tighten the rim to the double beam with the **M4 nut**.

At this point, you will want to repeat these steps to configure the other DC motor.

# The Frame

## Parts List:

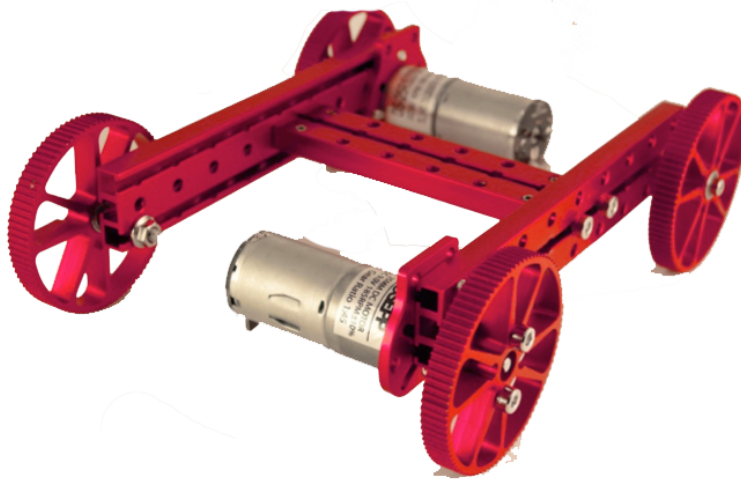
HEX Screw M4x12		4
Assembled DC Motors (previous steps)		2
Assembled Double Beam (previous steps)		1
Hex Allen Key 3.0mm		1



Slide in the **beam connectors** to each corner of the double beam. Attach the **headless screws** into the corner holes of the double beam.

# Connecting the Parts Together







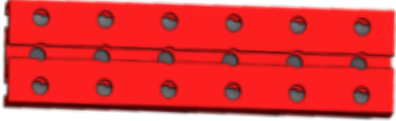
Parts List:



Attach the double beam in between the assembled DC motor wheel brackets using the M4 screws. Make sure the double beam is centered between the wheel motor brackets.

# Installing the Base Plate & Top Frame

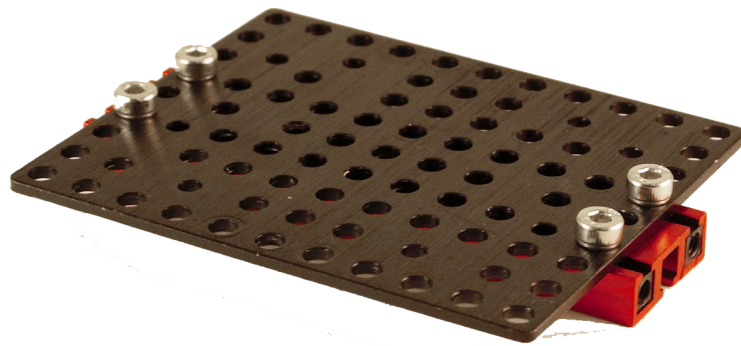
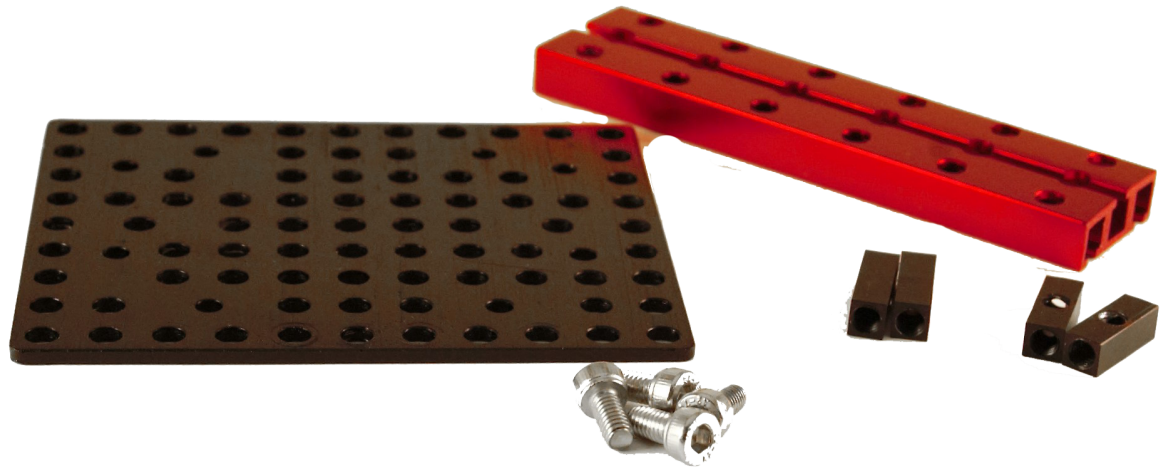
parts list

Base Plate		3
Screw M4x14		2
Nut M4		2
Screw M4x8		8
Standoff M4*15		6
Beam Connector		4
Double Beam -6		1
Hex Allen Key 3.0mm		1

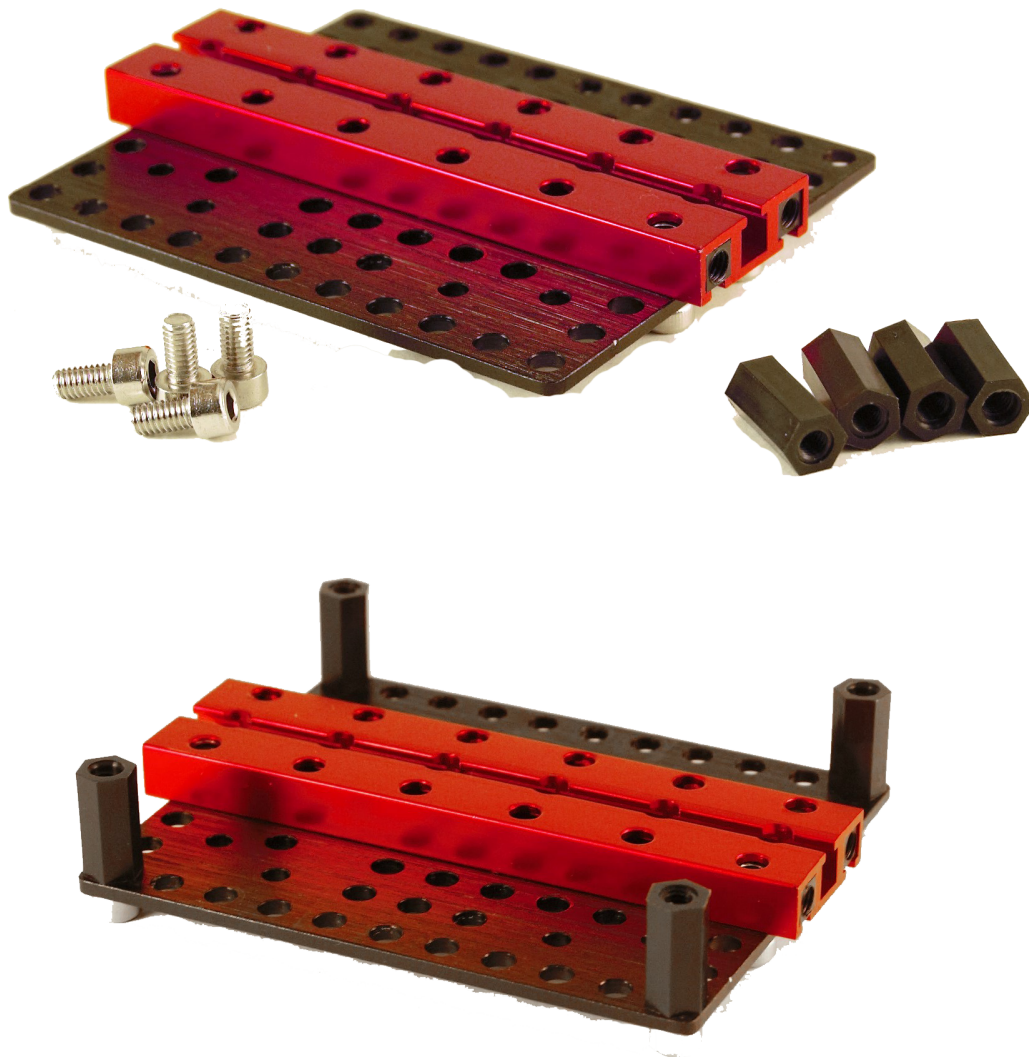




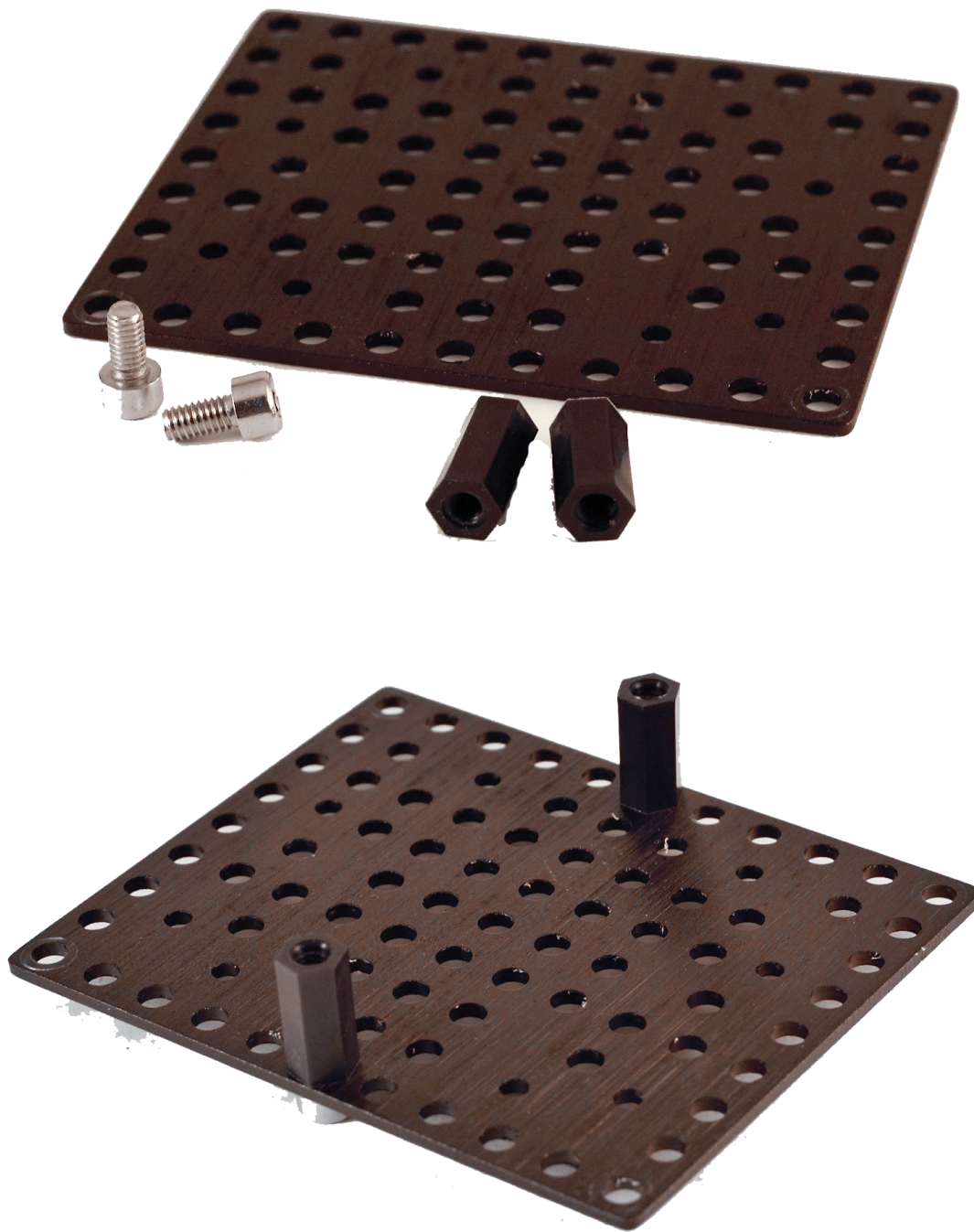
Attach the **base plate** with the **M4\*14 screws** to the assembled wheel frame. secure with **M4 nuts**.



Attach the second **base plate** and slide each **beam connector** into the **double beam** slot. Fasten the base plate to the beam with four **M4\*8 screws**.

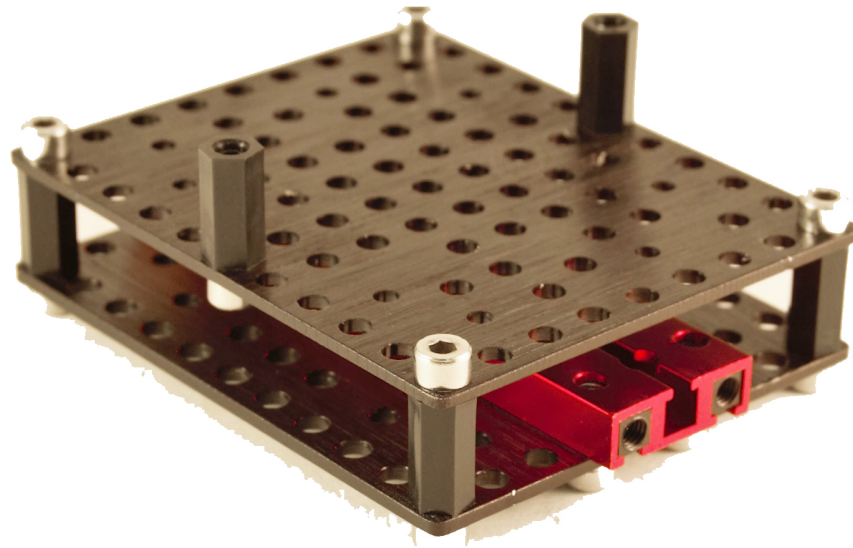
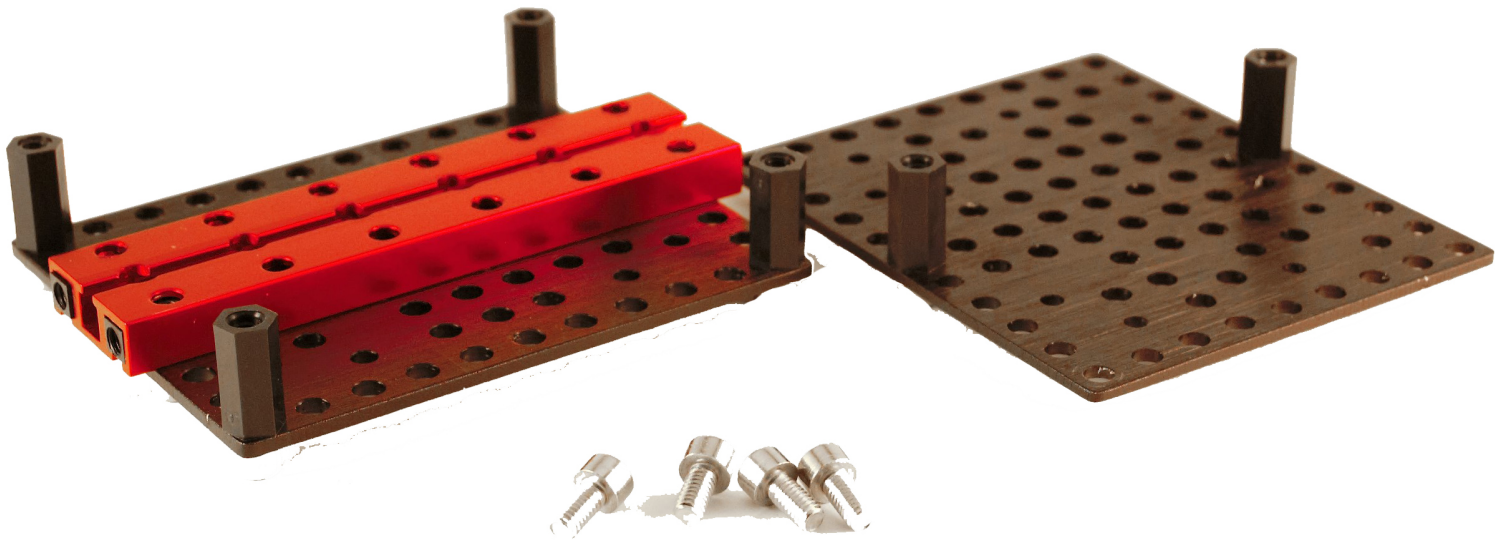


attach the **M4\*15 standoff screws** to the **base plate**. Fasten with the **M4\*8 screws**.



Attach two **M4\*15 standoff screws** to the other **base plate**. Fasten with **M4\*8 screws**.


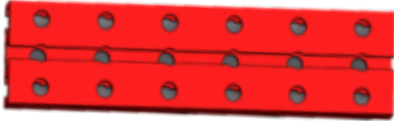


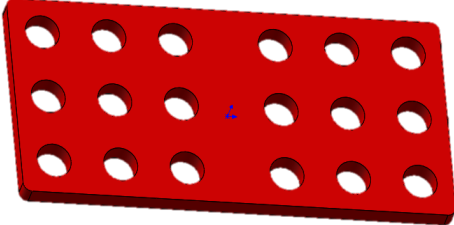


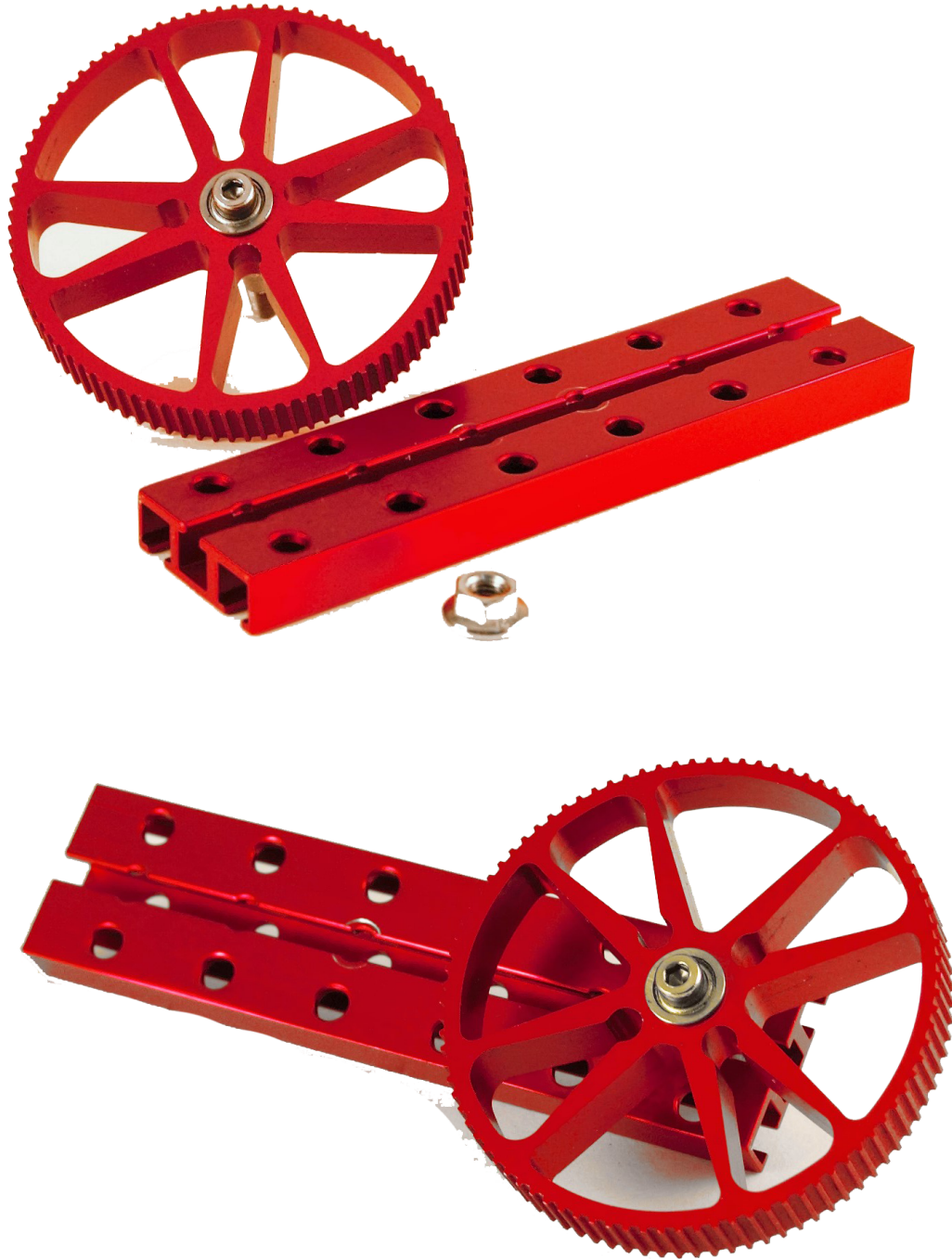


Take both **base plates** you assembled individually and attach them with four **M4\*8** screws.

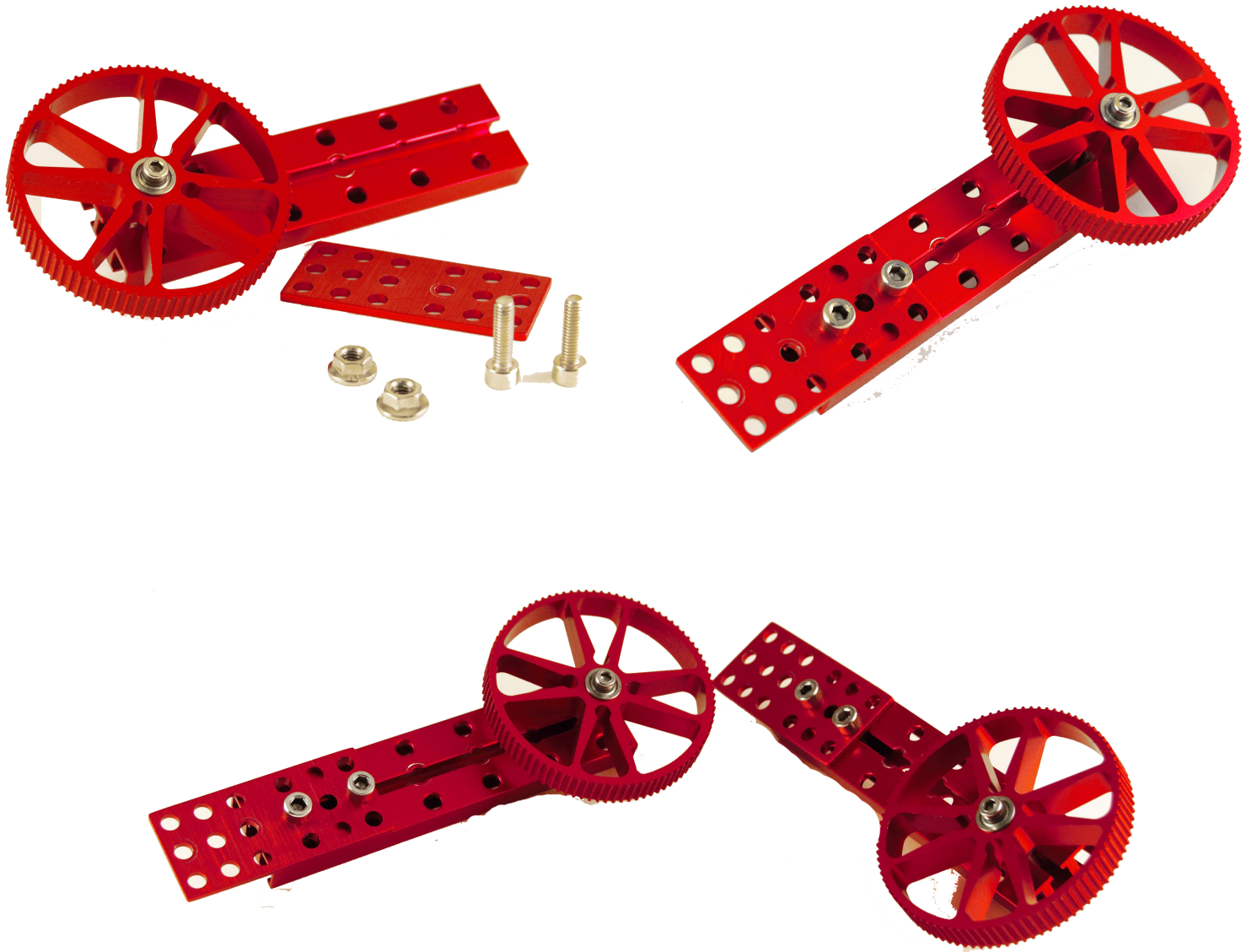
# Assembling the Rim

parts list

RIM -90T		2
Double Beam -6		2
Nut M4		2
Wrench		1
Screw M4x14		4
Plate B 3X6		2
Hex Allen Key 3.0mm		1



Attach the assembled **RIM 90-T** to the **double beam** and fasten with the **M4 nut**. Repeat twice.

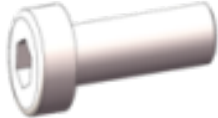




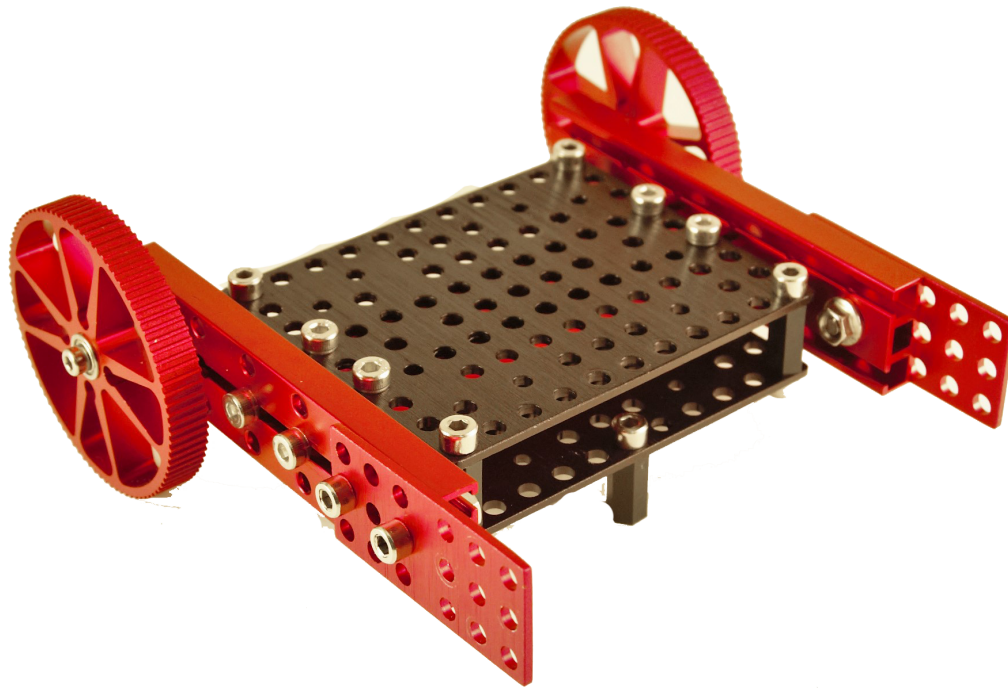
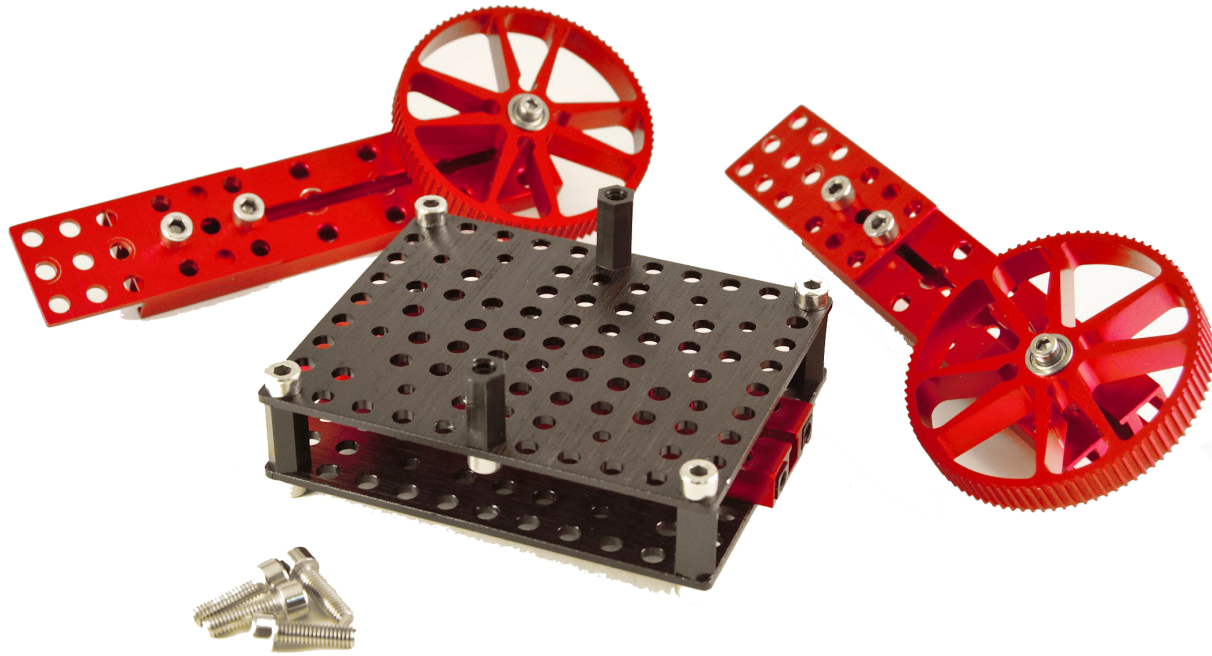
Take **plate B 3x6** and attach to the assembled RIM parts with the **M4\*14 screws**. Fasten with the **M4 screws**.



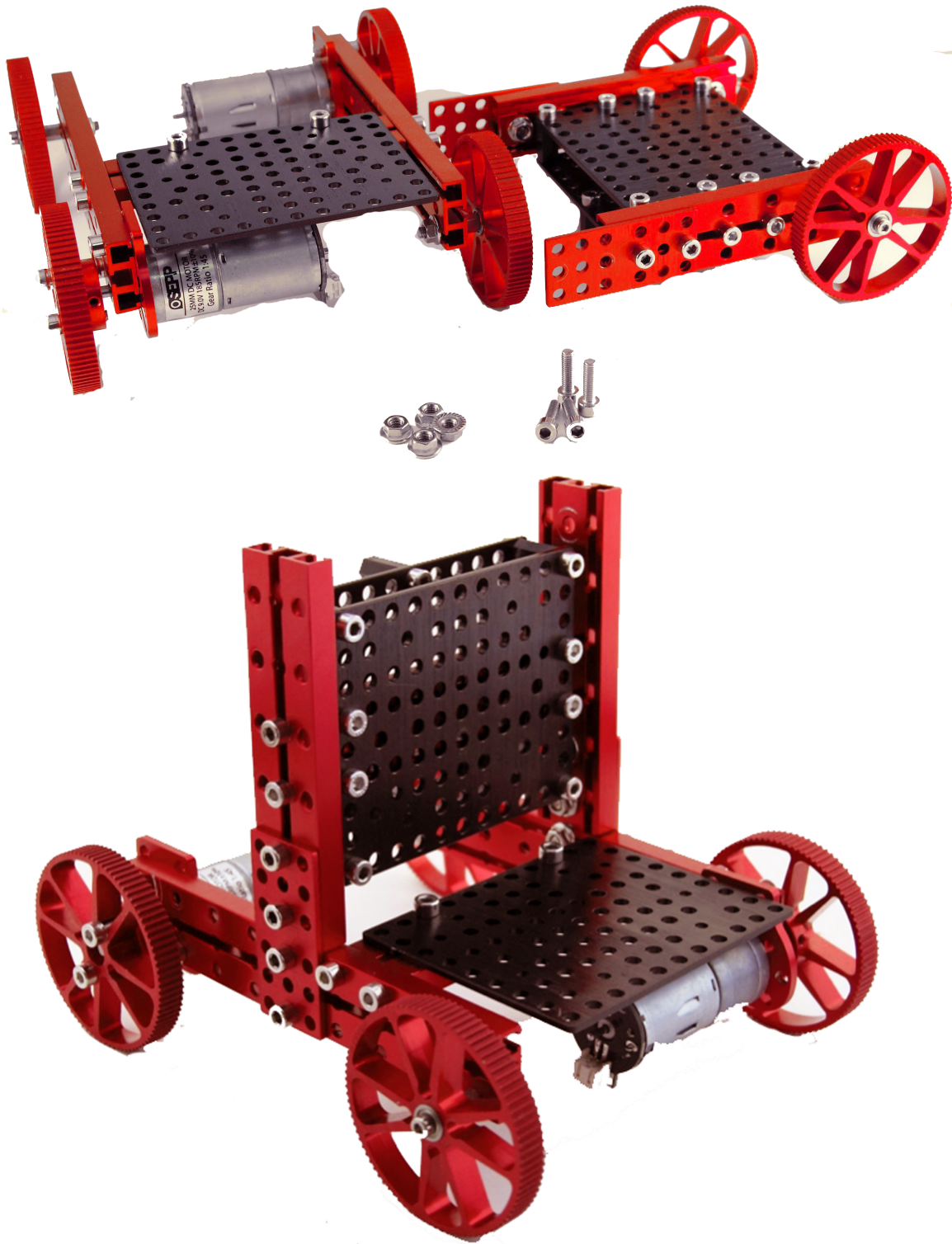
# Attaching Together

parts list

Screw M4x12		4
Screw M4x14		4
Nut M4		4
Hex Allen Key 3.0mm		1



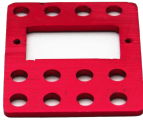


Fasten the base plates to the assembled RIMs with the **M4\*12 screws**.

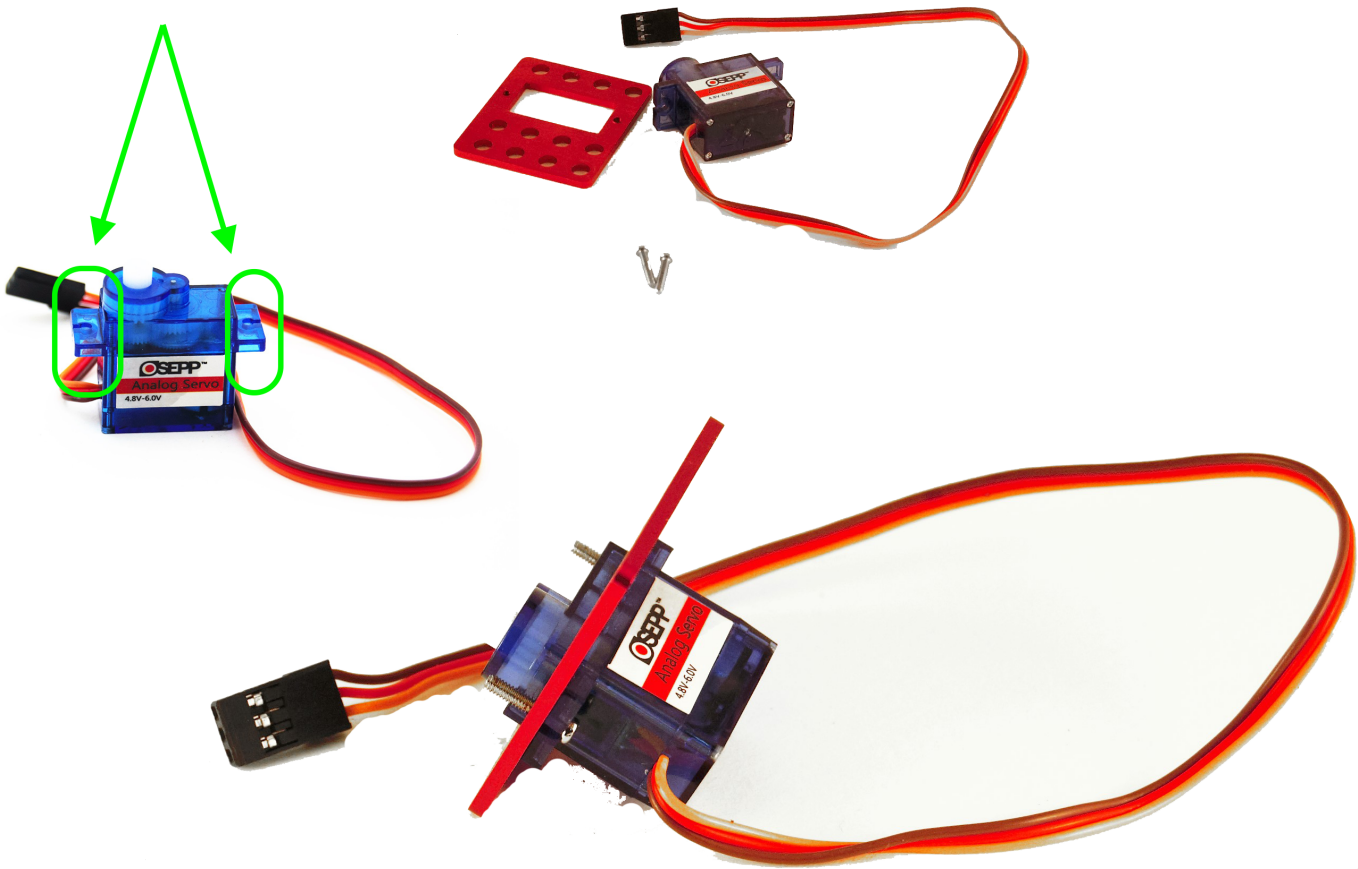


Attach the entire top bracket to the bottom RIM bracket with **M4\*14 screws**. Fasten with the **M4 nuts**.

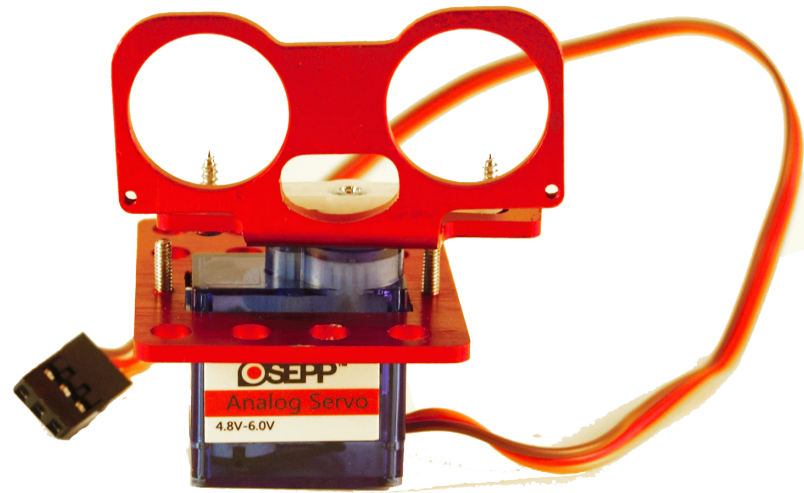
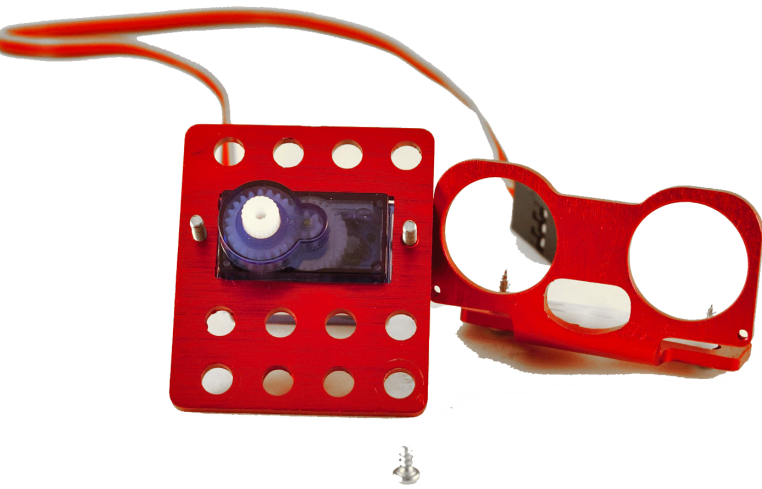
# Analog Servo & Ultrasonic Sensor

## Parts List:

Servo Horn (servo accessories parts)		1
Servo Bracket		1
Analog Servo		1
Screw M2*10 (servo accessories parts)		2
small screw (servo accessories parts)		2
Plastic Rivet		6

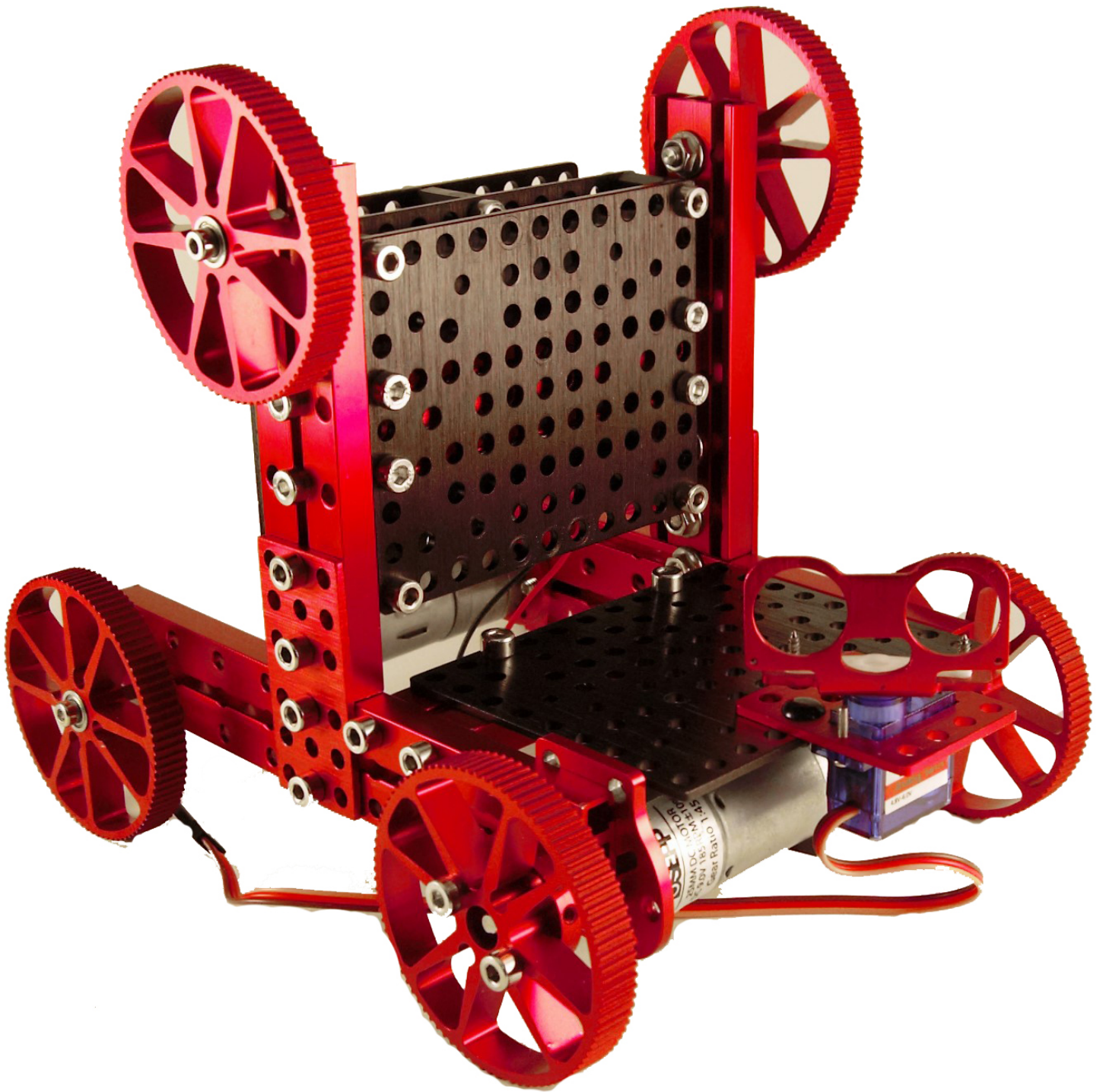


Insert the **Servo** into the **mounting bracket**.  
Insert the **M2\*10 screws** ( found in servo accessories) through the servo mounting holes to attach to the servo bracket.



attach the **servo horn** to the **ultrasonic sensor** mount. Make sure you are able to align the servo horn center teeth the the **analog servo** shaft.








Attach the servo / ultrasonic mount to the tank with the **rivets**.

# Battery Pack & Wheels

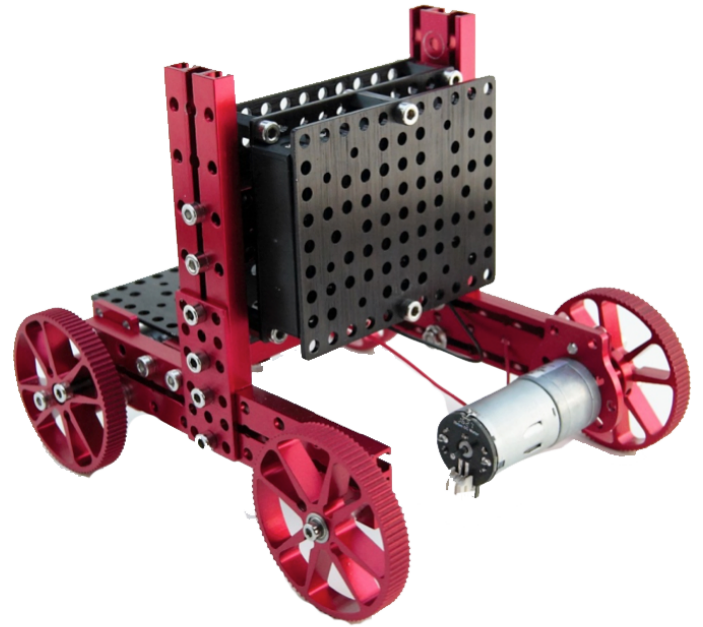
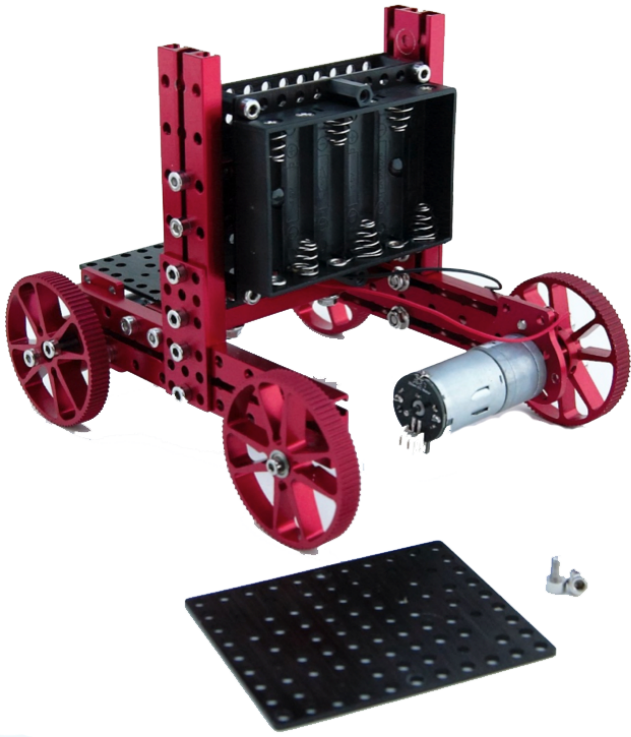
## Parts List:

Battery Holder 6AA		1
Plastic Rivet		2
Base Plate		1
Screw M4x8		2
Tracks		50
Track Axle		50





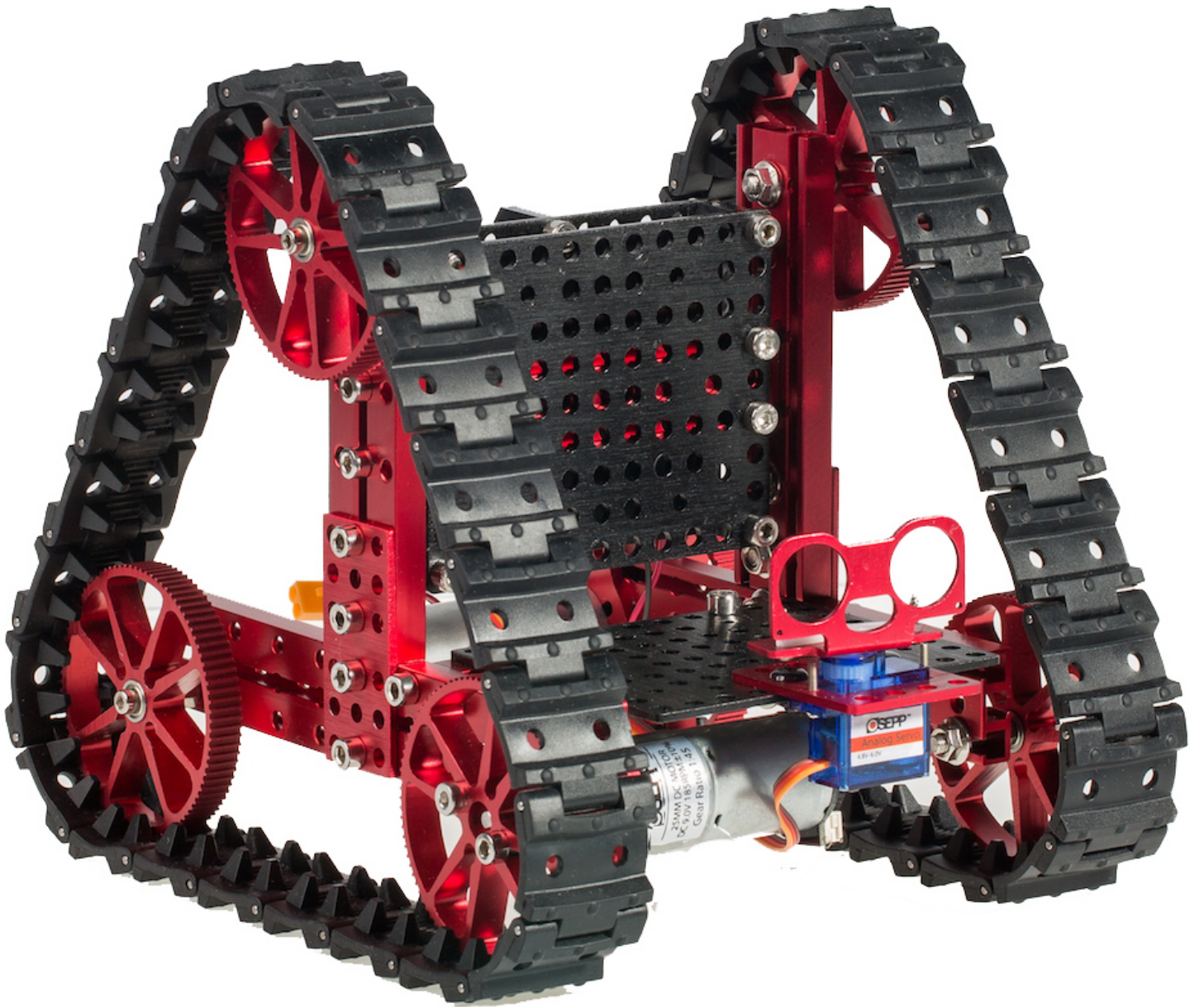
Attach the **battery pack** to the Triangular Tank with the **rivets**.



Attach the base plate to the battery holder with the M4\*8 screws.



Slide the track axles into each track link to assemble the belt wheels for the tank. Repeat for each wheel.



## Completed Triangular Tank





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