


Key

Required parts

Directions

Step 1

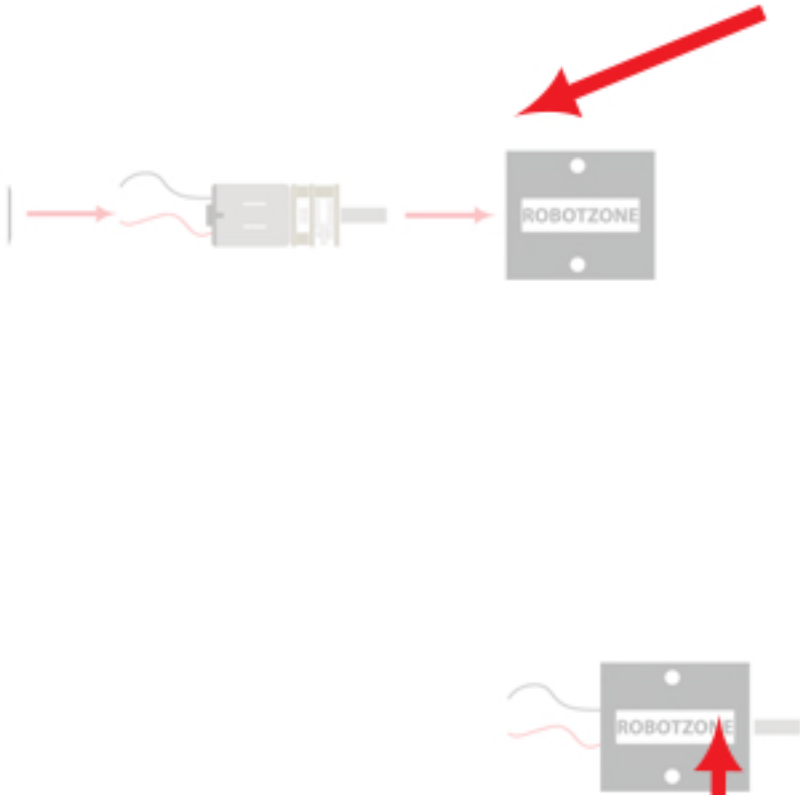


x 2

x 2

Remove the plastic plate from the back of the micro gearmotor enclosure and insert the gearmotor. Arrange the wiring so that it sets inside the provided indentation and press the plastic plate back in place.

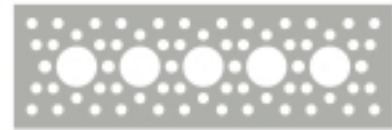
Visual Overview



Result

Parts List

1 4.5" Channel



2 90 rpm Micro Gearmotors



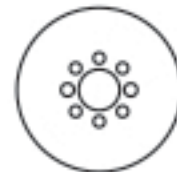
2 Micro Gearmotor Enclosures



2 Set Screw Hubs



2 2" Precision Disk Wheels



2 Rubber Lip Rings



Parts List Cont.

1 Acetal Caster Mount



1 Acetal Caster



2 Acetal Battery Mounts



2 Acetal Arduino Mounts



12 Socket Head Machine Screws



1AA Battery Pack



Assembly Guide

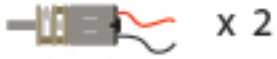


Actobitty Robot Kit

Servocity.com

620-221-0123

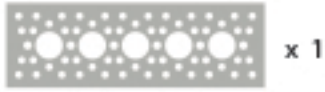
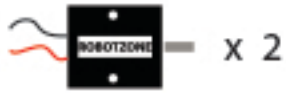
Step 1



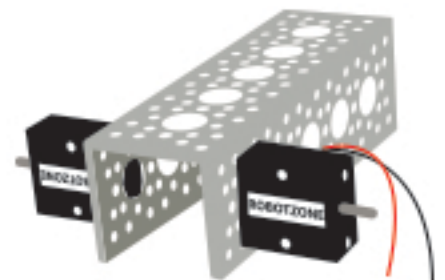
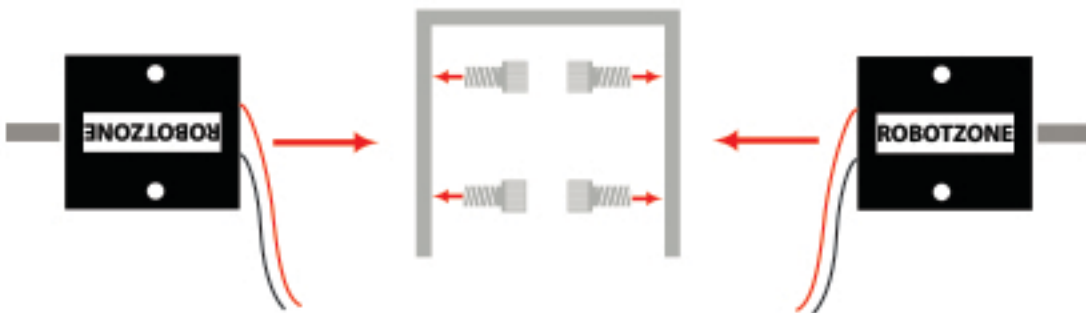
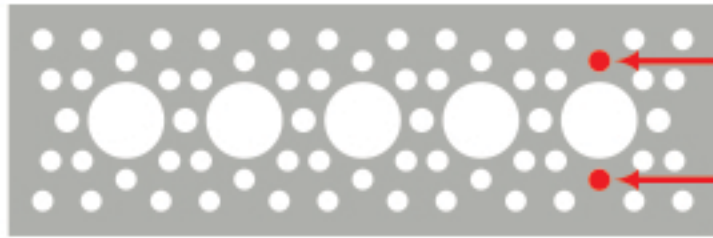
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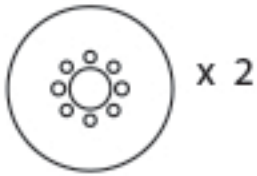
Step 2



Insert 4 screws into the indicated holes from the inside of the channel. Using the provided hex head driver fasten the gearmotors to the channel with their wiring facing back toward the long side of the channel.



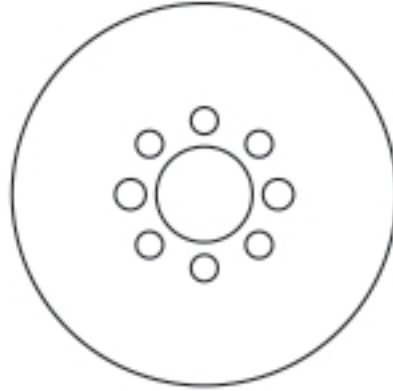
Step 3



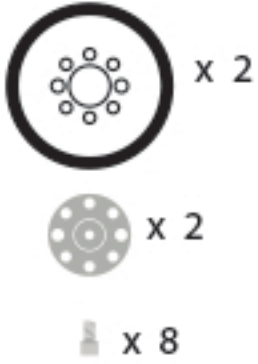
Stretch the rubber lip ring over the edge of the 2" precision disk wheels so that the wheel is evenly covered by the ring.



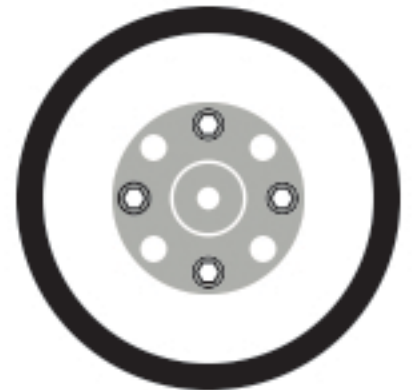
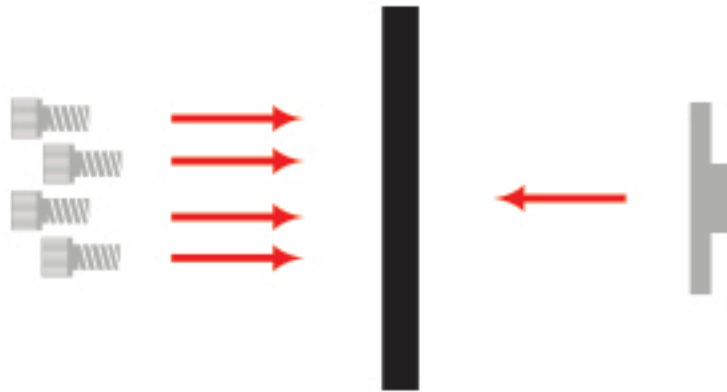
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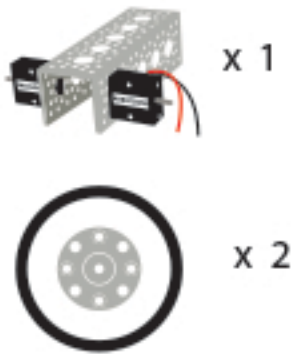
Step 4



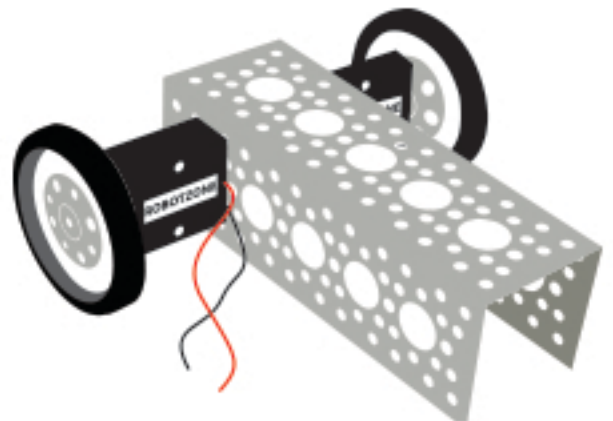
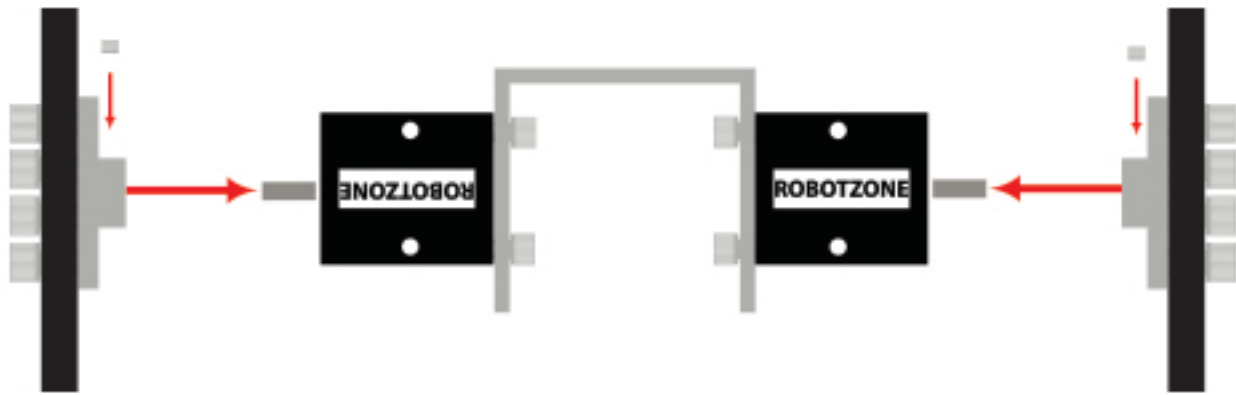
Feed four screws through each wheel and into the threaded holes of the set screw hub on the other side. Make sure the set screw faces away from the wheel.



Step 5



Slide the wheels onto the motor output shaft so that the set screw faces in toward the motor. Use the provided hex head driver to tighten the set screws. When tightening the set screws make sure that they sit centered on the flat portion of the motors output shaft.



Step 6

x 2

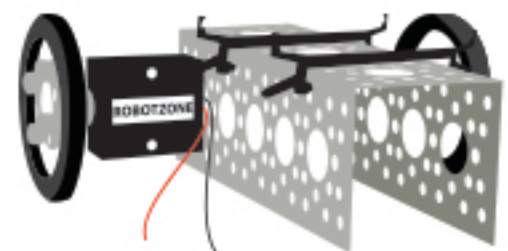
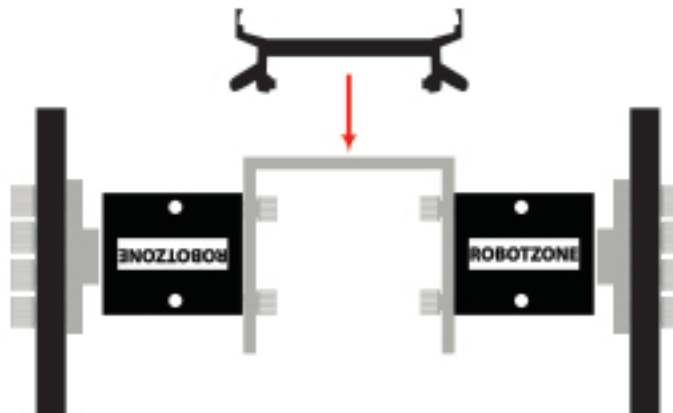
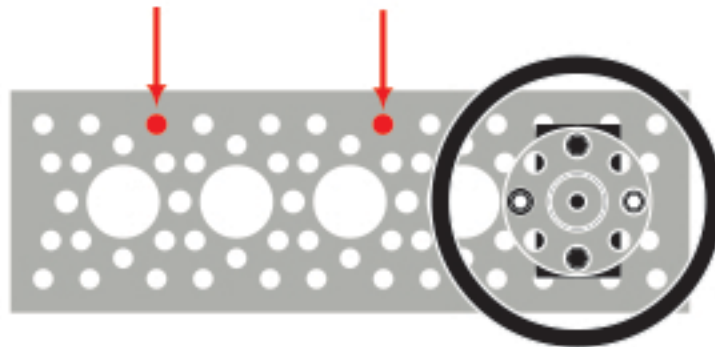


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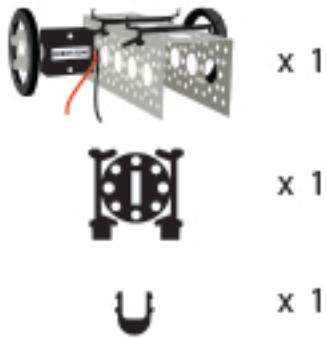


x 1

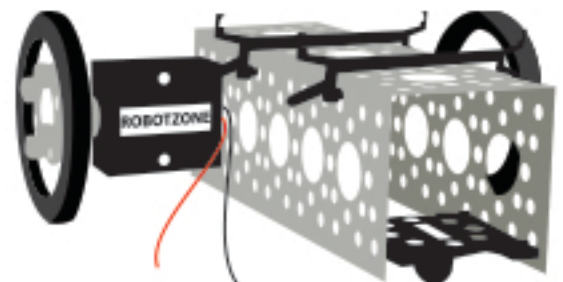
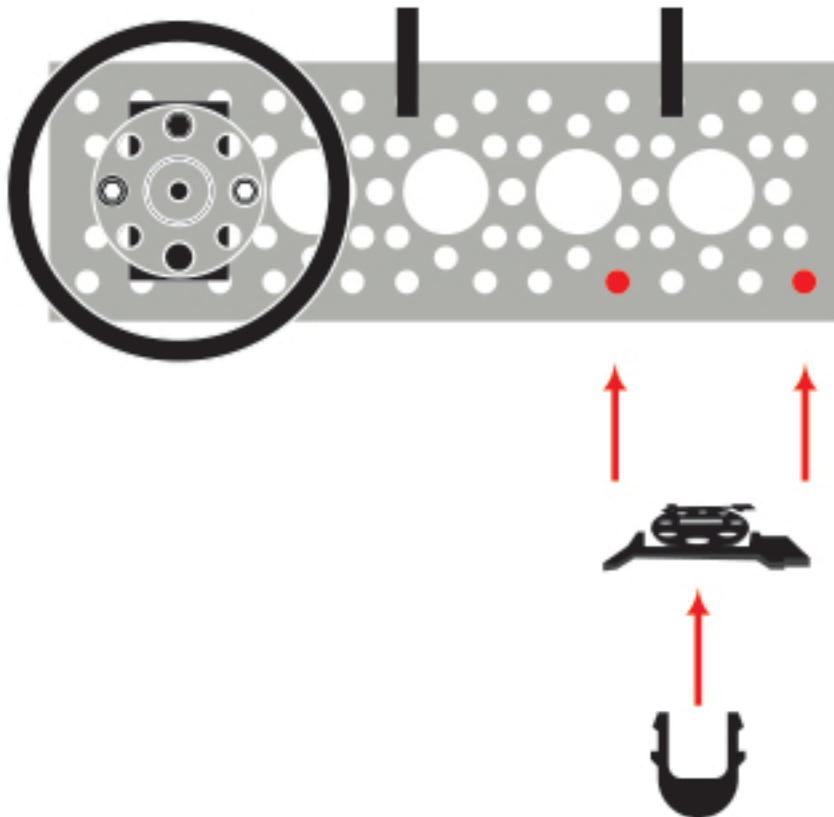
Snap the Arduino mounts onto the channel using the indicated holes. These mounts can be rearranged for different applications if desired.



Step 7



Insert the caster attachment into the rectangular hole in the caster mount.
Snap the resulting piece into the bottom of the channel into the indicated holes. Orient the piece so that the square sensor mounts face away from the channel as indicated.



Step 8

x 2

x 1

x 1

Slide the AA battery pack inside the channel. Snap the acetal battery mounts into the indicated holes to hold the battery pack in place.

