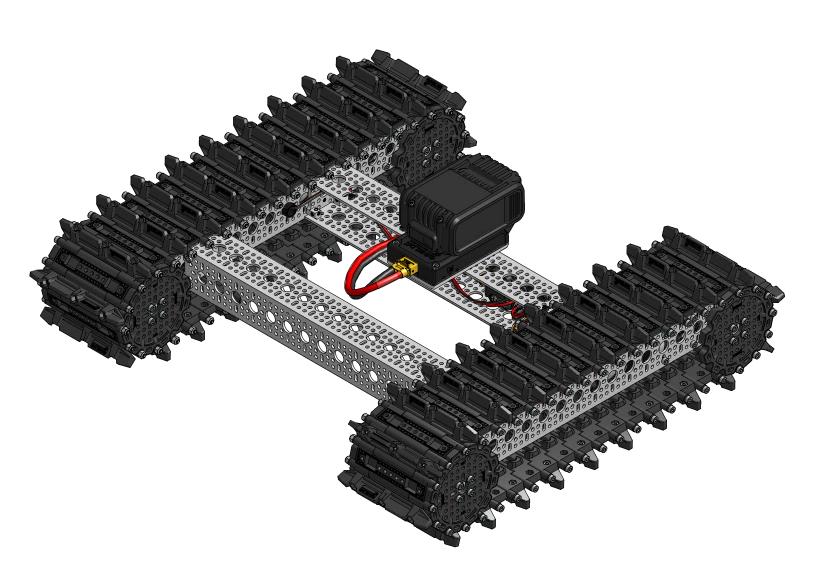
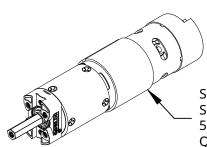
Assembly Instructions for **Bravo RC Tank Chassis** SKUs: 3209-0008-0004 and 3209-0008-0005



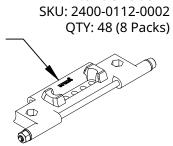
Kit Contents:



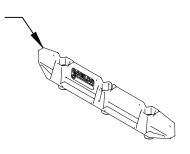
Grid-Track SKU: 2400-0112-0002 QTY: 90 (15 Packs)

Saturn Planetary Gear Motor SKU: 5303-2402-0051 or 5303-2402-0100

QTY: 2



terraGROUSER



Bravo Bare-Bones Chassis Kit



3mm Length Spacer SKU: 1522-0010-0030 QTY: 4 (1 Pack)

4mm Length Spacer SKU: 1522-0010-0040 QTY: 4 (1 Pack)

> 6mm Length Spacer SKU: 1514-0010-0060 QTY: 4 (1 Pack)

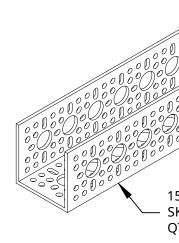
7mm Length Spacer

SKU: 1522-0010-0070 QTY: 4 (1 Pack)



Clamping Mount SKU: 1401-0043-0036

QTY: 2



Quad Block Pattern Mount SKU: 1201-0043-0002 QTY: 6

104mm Length REX Shaft SKU: 2106-4008-1040 QTY: 4

15 Hole U-Channel SKU: 1120-0015-0384 QTY: 4

> Miter Gear SKU: 2315-4008-0030 QTY: 4



8mm Length Screw SKU: 2800-0004-0008 QTY: 25 (1 Pack)

11mm Length Screw SKU: 2800-0004-0011

QTY: 50 (2 Packs)

14mm Length Screw SKU: 2800-0004-0014 QTY: 50 (2 Packs)

Washer

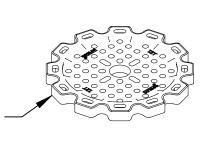
SKU: 2801-0004-0008 QTY: 50 (2 Packs)

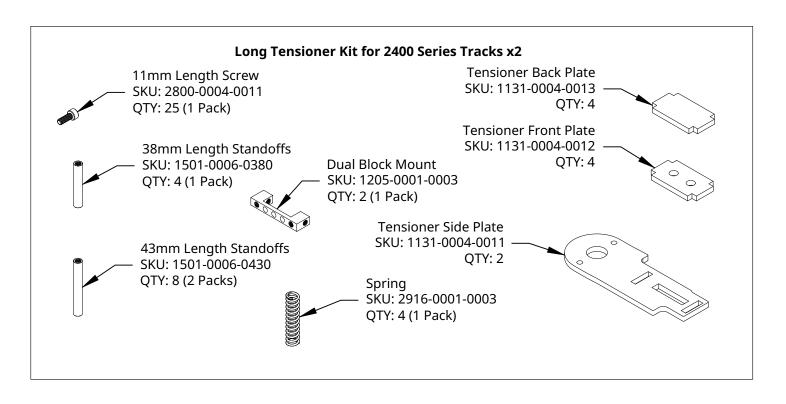
0.5mm Shim SKU: 2807-0811-0500 QTY: 12 (1 Pack)

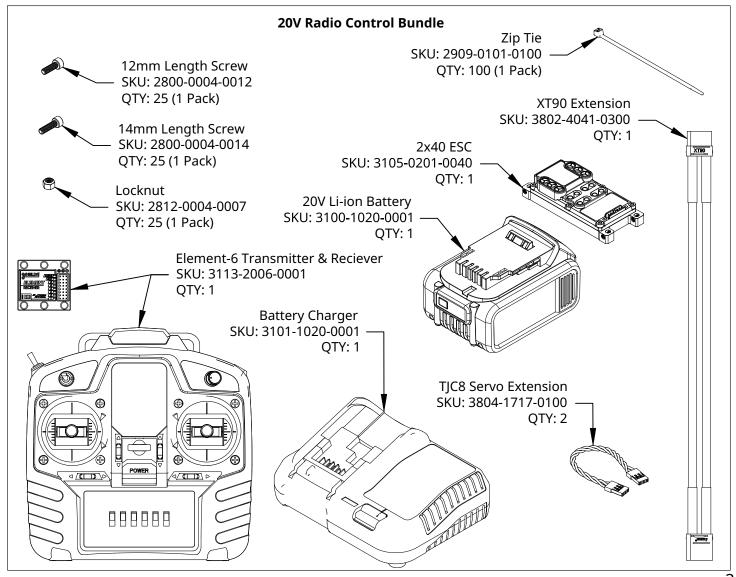
Hyper Hub SKU: 1310-0016-4008 QTY: 8

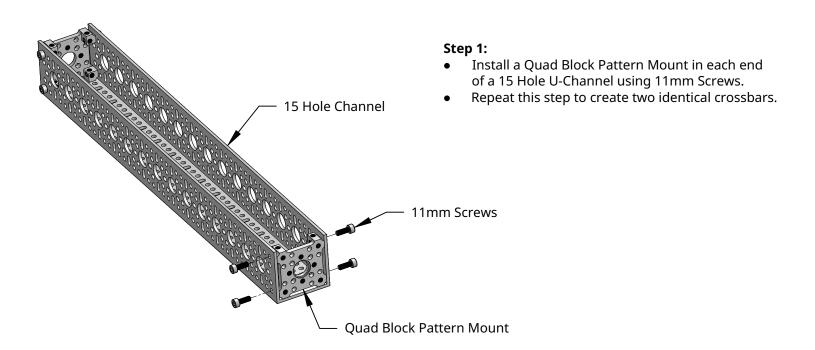
> Track Sprocket SKU: 2401-0014-0012 QTY: 8

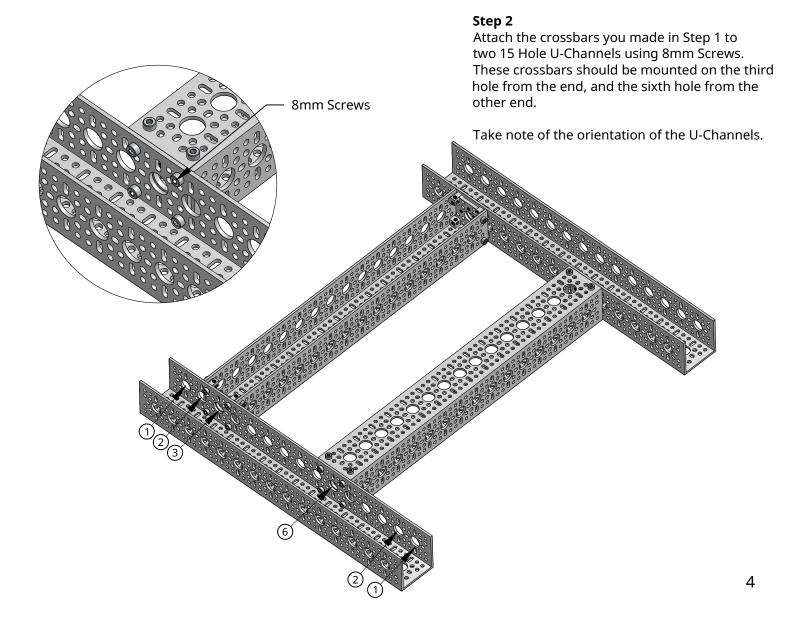
Plastic Grommet SKU: 2911-0014-0001 QTY: 12 (1 Pack)





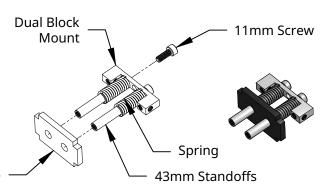




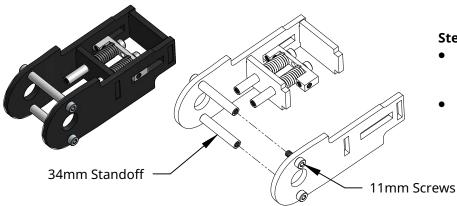


Step 3a

- Fasten two of the 43mm Length Standoffs to a Dual Block Mount using two 11mm Screws.
- Slide a spring over each standoff and slide the front tensioner plate over the standoffs.



Front Tensioner Plate

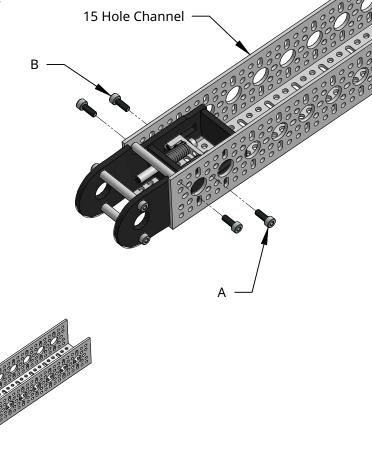


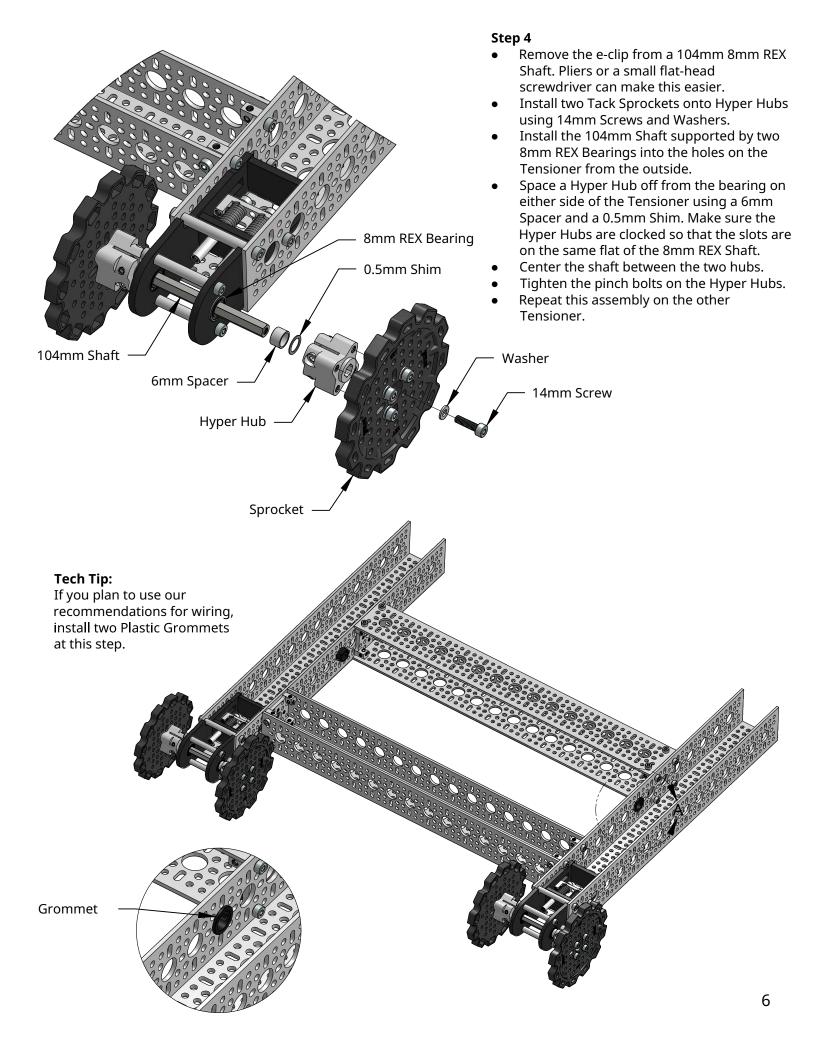
Step 3b

- Insert the assembly from Step 3a (along with the back tensioner plate) into one of the side plates.
- Using two 34mm length standoffs and four 11mm Screws, fasten the second side plate to the opposing side (sandwiching it all together) to create one track tensioner.

Step 3c

- Insert the assembly from Step 3b into the end of a 15 Hole Channel. Note the orientation.
- Thread two 11mm Screws into the Dual Block Mount. Screws "A" and "B" each go into a slot. Ensure they are slid to the back of the slot (away from the near end).
- Add a 43mm length standoff in the top corner of the channel with two more 11mm screws.
- Repeat steps 3a-3c to create a second tensioner and i nstall it in the other 15 Hole Channel.





Step 5

- Remove the e-clip from an 8mm REX Shaft.
- Clamp one Hyper Hub onto the end of the shaft, then slide a 4mm Spacer and an 8mm REX Bearing onto the shaft. Make sure the bearing flange is towards the hub. (Figure A)
- Slide this assembly into the open hole on the end of the 15 Hole Channel opposite where you installed the tensioner. Inside the channel, slide a 3mm Spacer, a 0.5mm Shim, and a Miter Gear onto the shaft. (Figure B)
- Slide the shaft through the channel until the Hyper Hub and spacer bottoms out aginst the bearing.
- Install an 8mm REX Bearing in the channel, so that the bearing protrudes into the hole in the channel and the flange rests against the outside.
- Slide a 4mm Spacer and a Hyper Hub on the shaft and tighten the pinch bolts on the Hyper Hub.
- Slide the Miter Gear so that the Miter Gear and shim/spacer bottom- out against the bearing.
 Then tighten the set screws on the Miter Gear.
- Repeat this step on the last open end of the 15 Hole Channel.

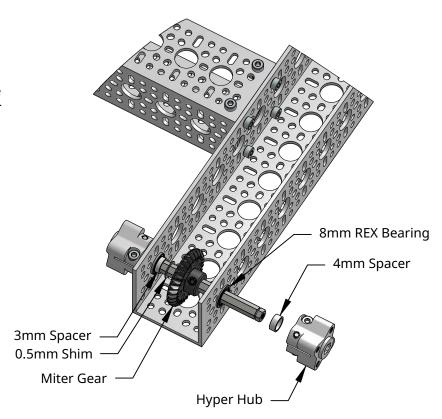
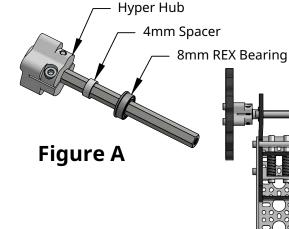
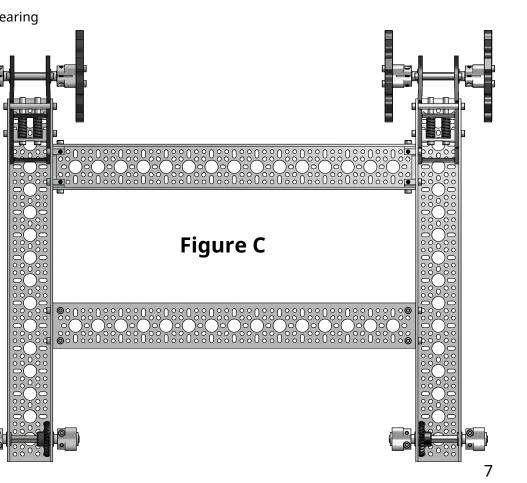


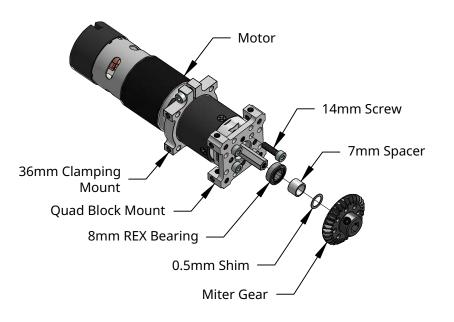
Figure B



Tech Tip:

We've included Thread Locker in your kit, we reccomend you apply this to the set screws in the Miter Gears. But you can apply it to any screw that is not threading into a Locknut.





Step 6

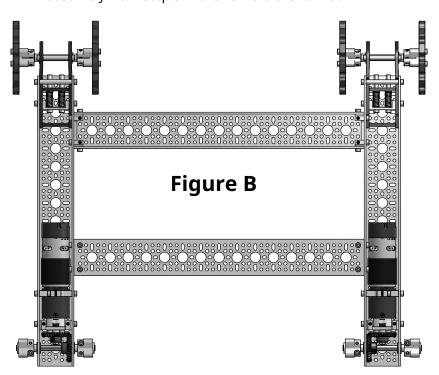
- Slide a 36mm Clamping Mount onto the Motor's Gearbox. Leave it's pinch-bolt loose.
- Bolt a Quad Block Pattern Mount to a motor using 14mm Screws. Leave these screws slightly loose.
- Install an 8mm REX Bearing over the Motor Shaft and into the hole on the Quad Block Pattern Mount. After it is installed, tighten the four screws that secure the Quad Block Pattern mount to the motor.
- Slide a 7mm Spacer, a 0.5mm Shim, and a Miter Gear onto the motor shaft and then tighten the Miter Gear set screws.
- Repeat this step to create a second motor drive assembly.

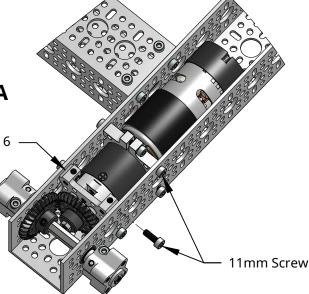
Figure A

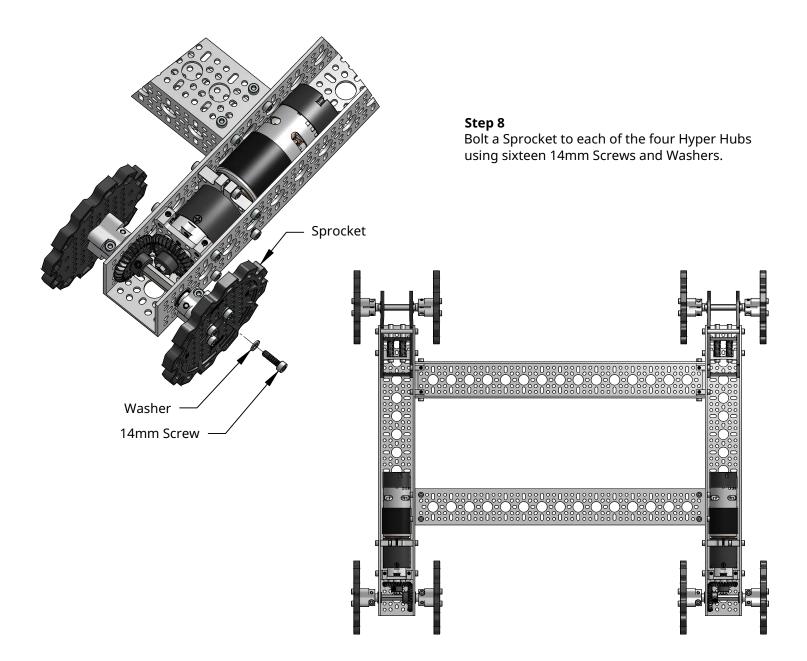
Assembly from Step 6

Step 7

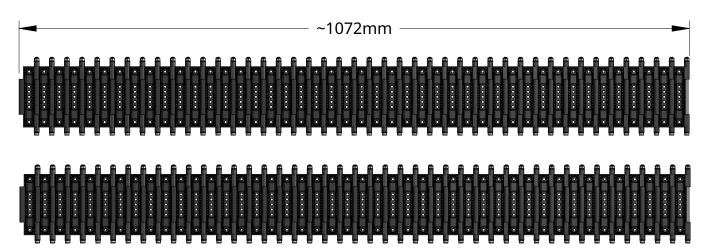
- Use four 11mm Screws to bolt the Quad Block Pattern Mount from one of the assemblies you created in Step 6 into one of the 15 Hole U-Channels to mesh with the Miter Gear you installed in Step 5.
- Use four 11mm Screws to bolt the 36mm Clamping Mount to the channel before tightening the pinch bolt.
- Repeat this step by bolting the second assembly from Step 5 in the 15 Hole U-Channel.





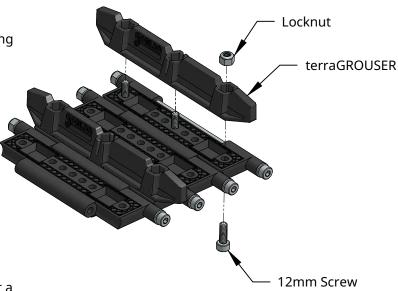


Step 9Assemble two sets of 44 Track links. You should have 2 links left over, one per section. These bolts should be loose enough to spin freely in the track, so that each track joint pivots smoothly. 44 Tracks should measure aproximately 1072mm or 42.2".



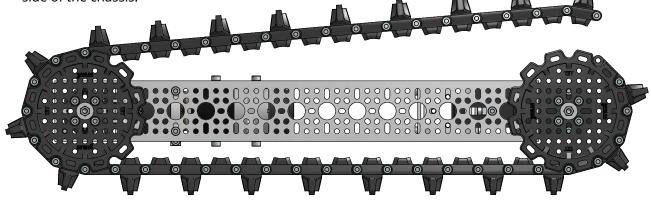
Step 10

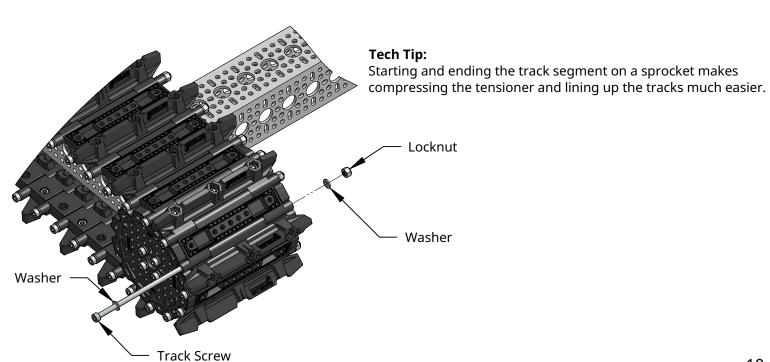
On every other Grid-Track, bolt a TerraGROUSER using the included 12mm Screws and Locknuts.



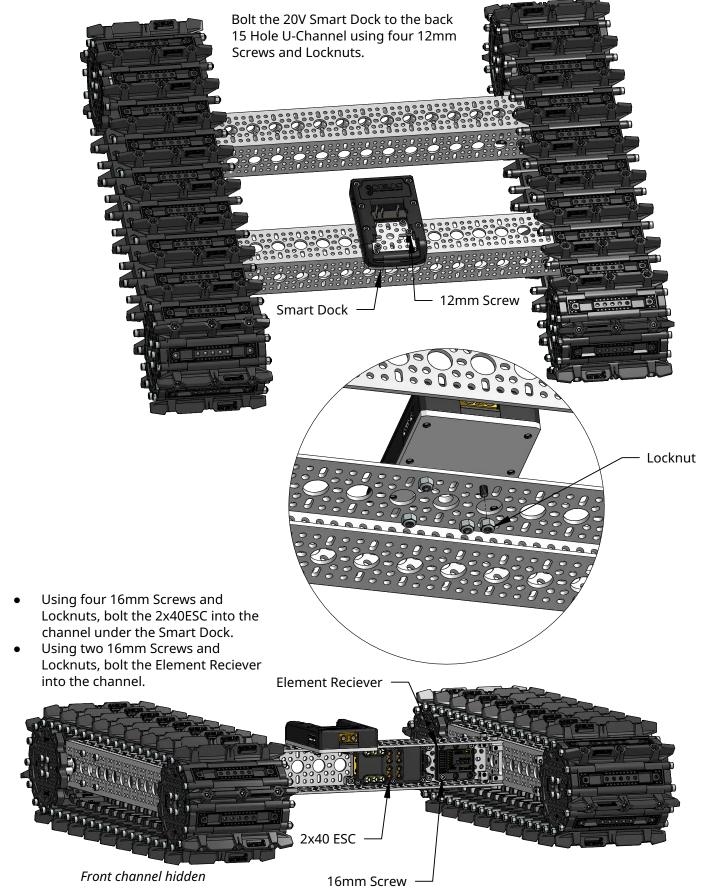
Step 11

- Wrap the tracks around the two sprockets. Line up the ends of the track sections and insert a bolt through the tracks, then install the washer and locknut on the other side.
- Repeat this step to install the track on the other side of the chassis.





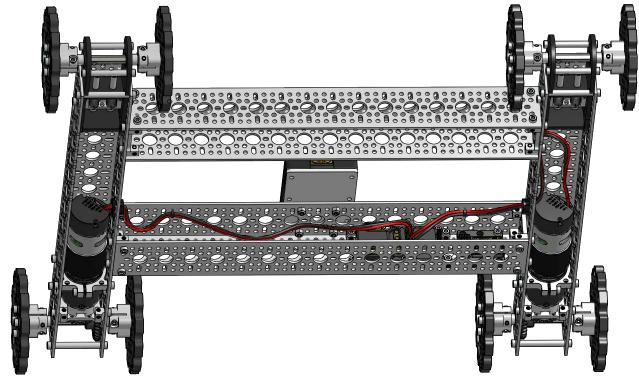
Recommended Electronics Placement



Wiring Guide

Route the leads from your motors through the grommets in the channels, and plug them into the 2x40 ESC



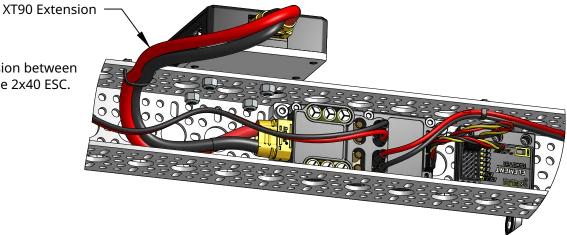




Using two Servo Extensions connect Channels 1 and 2 on the Reciever to the inputs on the 2x40 ESC.

The yellow wires on the connector should go towards the sticker on the receiver, and towards the middle on the ESC.

Install the XT90 Extension between the Smart Dock and the 2x40 ESC.



Transmitter Setup

To bind the Transmitter and Reciever, click the Bind button on the Reciever using a hex key or pen until the LED on the Reciever starts flashing rapidly, then turn on the Transmitter. The Reciever light should turn solid.



Moving the Right Joystick forward should make the chassis drive forward, and pushing it to the left should make the chassis rotate left. If it does not, follow the steps below.

- 1. If the chassis moves backwards when pushing the stick forwards, change the switch position for both channels 1 and 2. EG If they are set to NORMAL, move the switch to REVERSE.
- 2. If the chassis turns instead of driving foward, reverse just channel 1 on the transmitter.
- 3. If the chassis drives straight as desired. But rotates right when it should rotate left, swap the Servo Extensions on the reciever so that what was plugged into channel 1, is plugged into channel 2.