



circuit
CUBes

ROBOTS Rumble!

MULTI-VEHICLE / BLUETOOTH CONTROL / MOBILITY LAUNCH KIT



circuit
cubes

MEET THE CUBES!

Bring your toys to life with Circuit Cubes, the electronic building blocks that add power, motion, and light to your creations. Designed by STEM teachers, Circuit Cubes can turn a light on, power a motor, or make wheels spin — plus, they work with your LEGO® bricks.

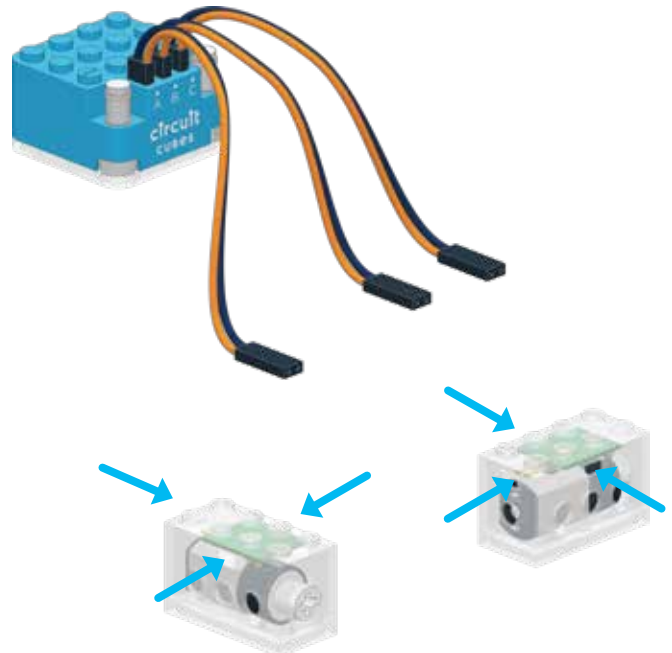
BLUETOOTH

The Bluetooth Cube can function like a standard Battery Cube to power all the outputs at the same time with the 3-way switch in the ON position. Move the switch to the Bluetooth position for broadcast mode [flashing blue LED] to pair the Cube with your device. Once connected [solid blue LED], you can control the three outputs [A | B | C] independently using the app.



CUBITS

Cubit Geared Motors are compact and powerful. The tiny planetary gears inside reduce the high speed motor to about 160 RPMs (rotations per minute) to provide torque to gears, wheels, etc. Three (3) ports around the Cubit Geared Motor allow maximum versatility to connect the wires from the Bluetooth Cube.



BATTERY MODE



Flip the switch to the right to power your creation in standard battery mode. A solid green light [●] indicates that the Bluetooth Cube is powered on. Outputs [A | B | C] are on, and you cannot control voltage.

PROTECT

Your Bluetooth Cube has short circuit protection for when you cause a shortage. Power will be disabled and the top LED will flash green [●] and blue [●]. You will hear a beeping sound until the short is removed.

CHARGING

To charge your Bluetooth Cube, plug the provided USB cable into the charging port on the side, and connect it to a standard USB port. The LED will turn red [●] while charging and green [●] when charging is complete.

BLUETOOTH MODE



You can control the three outputs [A | B | C] independently with the Circuit Cubes app. Each output allows you to control and power different parts of the build. Similar to the metal posts on the Cubes, each output has positive and negative polarity. This makes the Motor move, either clockwise or counterclockwise.

BLUETOOTH [●]

Flip the switch to the left to control your creation via the free Circuit Cube app — find it in the Apple App Store or Google Play Store.

PAIRING

A blinking blue light indicates that the Bluetooth Cube is pairing with your device. When the light is solid blue [●], it's connected.

DEVICE PAIRING

1 Download the free Circuit Cubes app from the Apple or Google Play stores. 2 Turn on your device's Bluetooth and set the Bluetooth Battery to the Bluetooth icon. 3 In the Circuit Cubes app, press the Bluetooth icon in the upper right corner of the home screen. 4 If no Cubes appear, tap the refresh icon. 5 Tap the Cube you wish to control.



BLUETOOTH
ICON



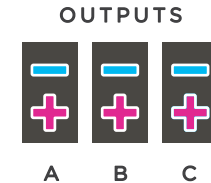
REFRESH
ICON



TAP CUBE

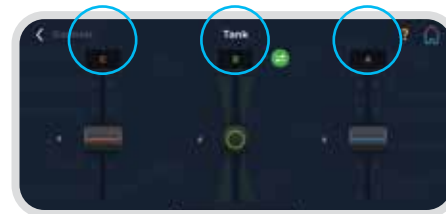
OUTPUTS

The Bluetooth Cube has three outputs [A | B | C]. In Bluetooth Mode, output A and the metal posts are the same, and are linked when powered on.

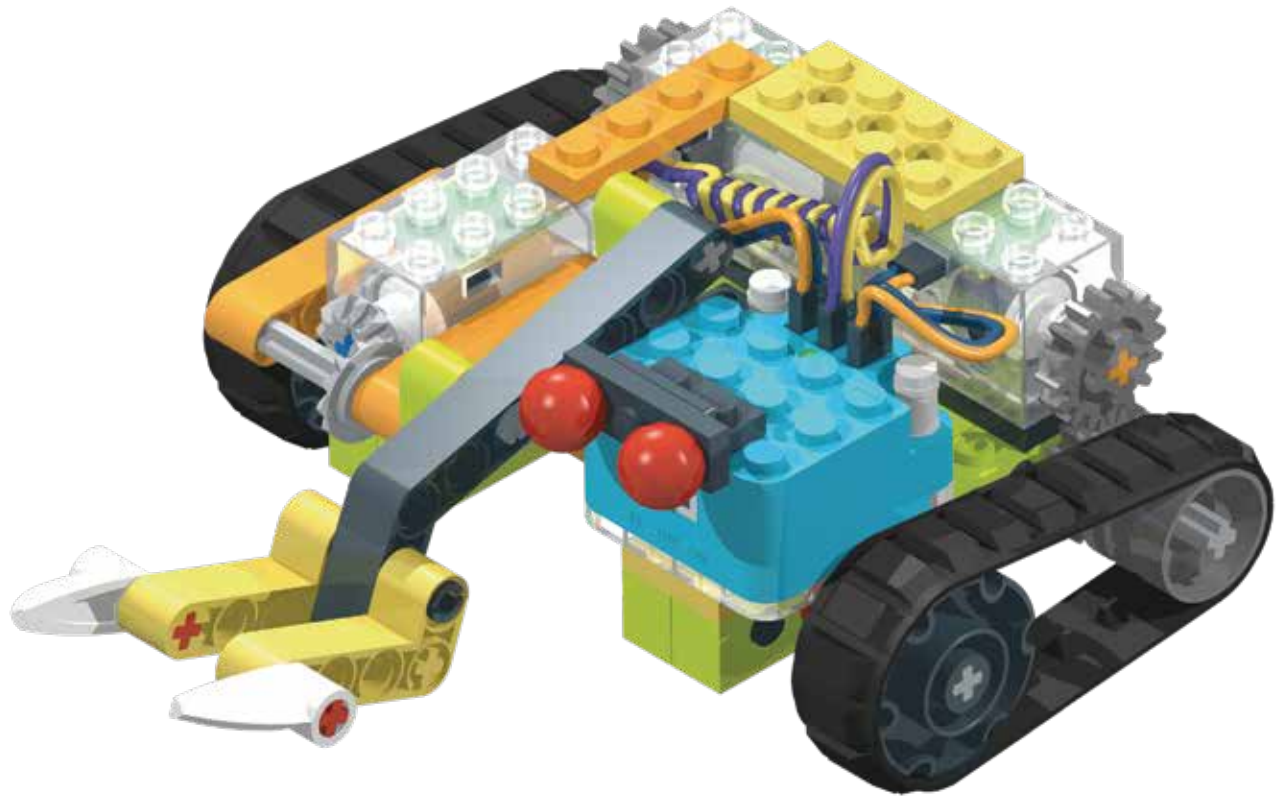


CONTROLS

Power the three outputs [A | B | C] using Tank, Tinker, Gamepad or Code in the Controls section of the App. The correct output settings to control each build is located at the end of each section.



XR-B1



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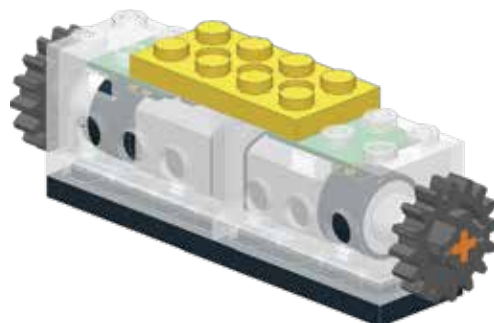
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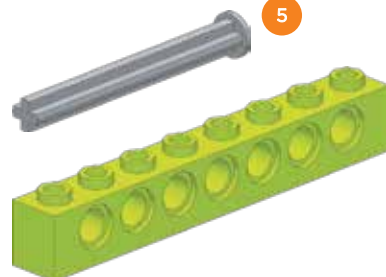
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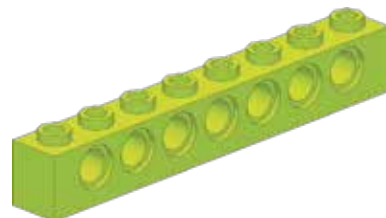
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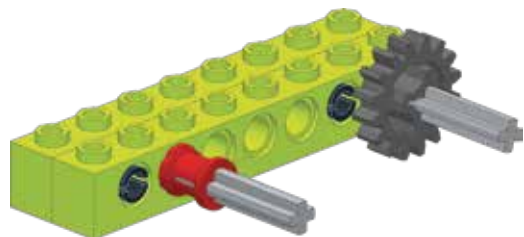
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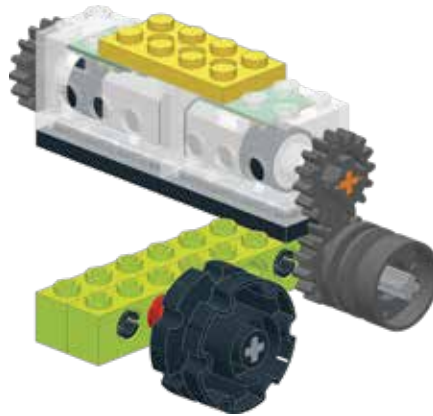
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1:1 SCALE



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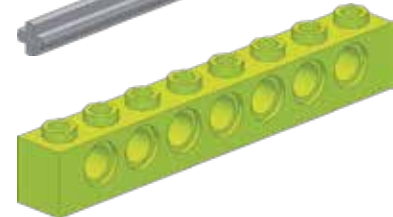


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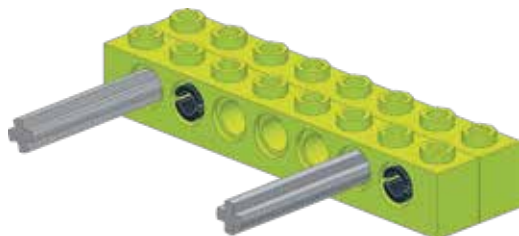
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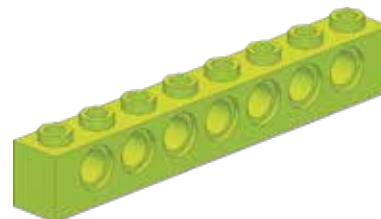
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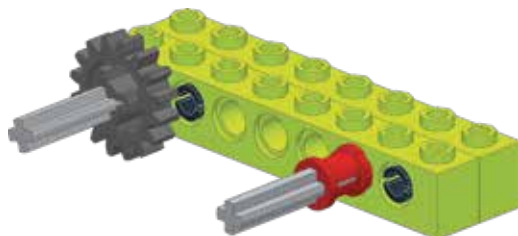
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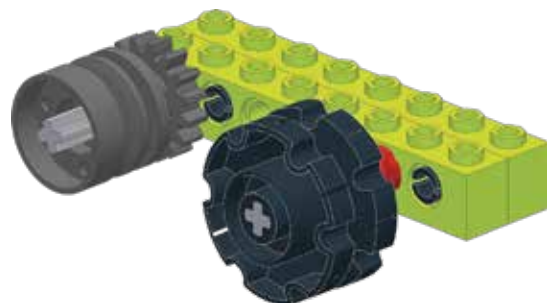
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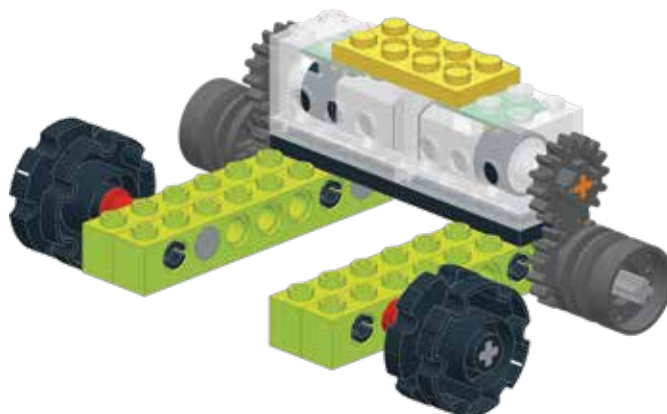
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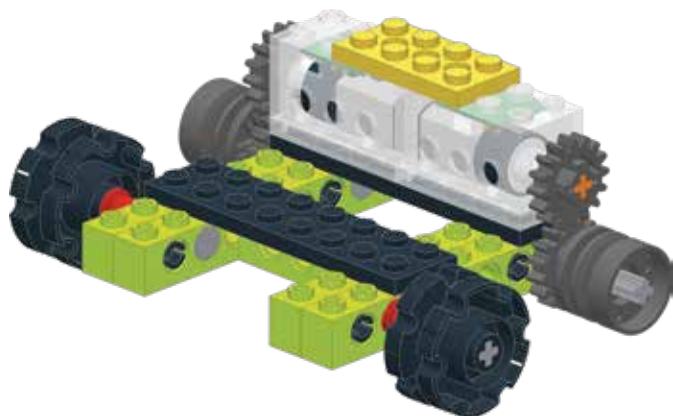
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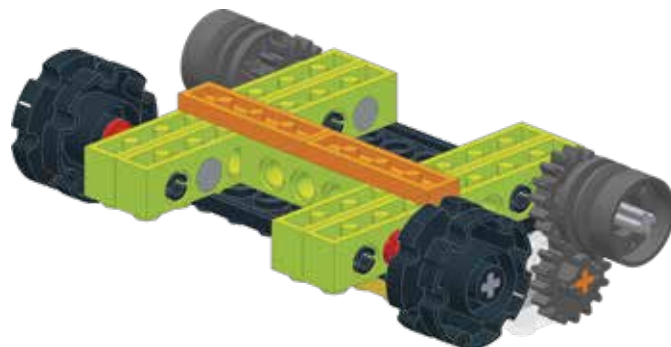
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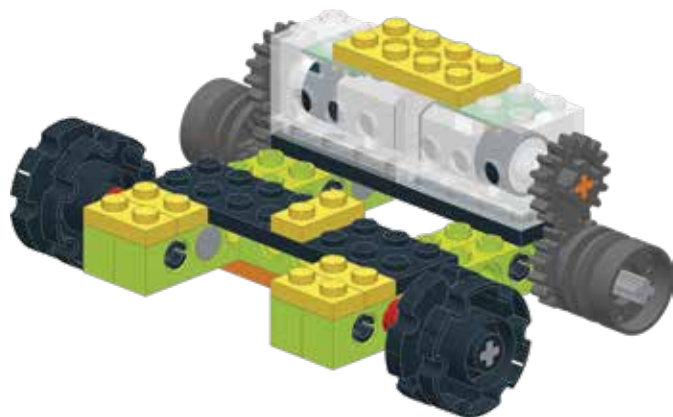
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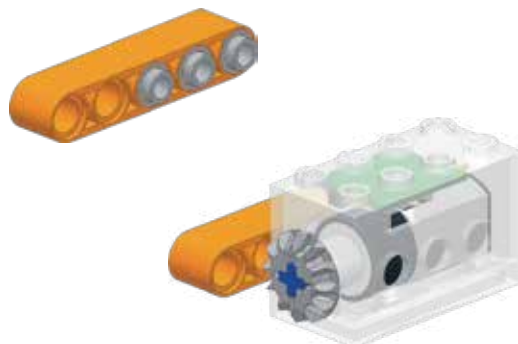
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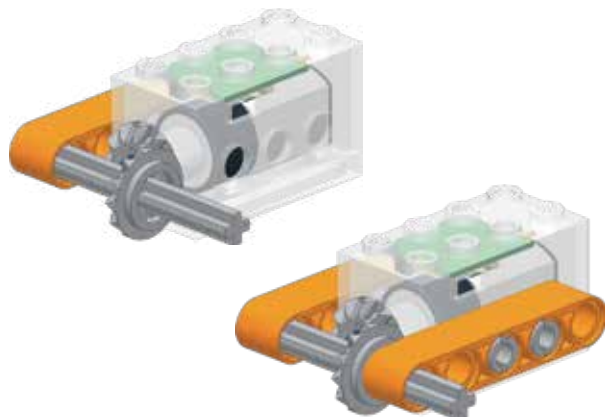
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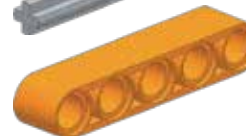


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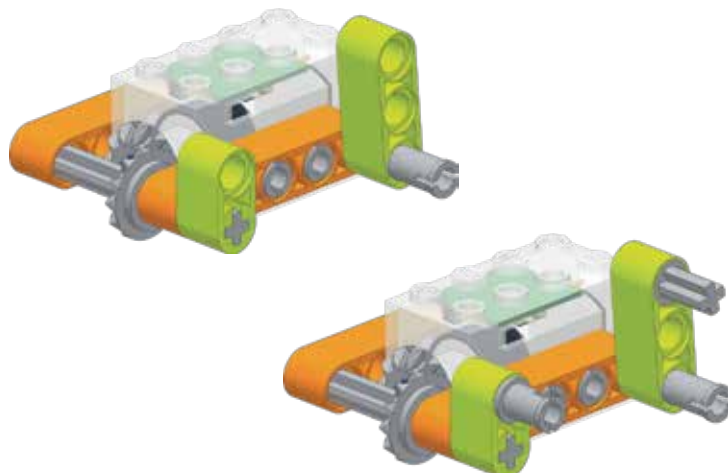
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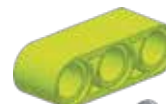
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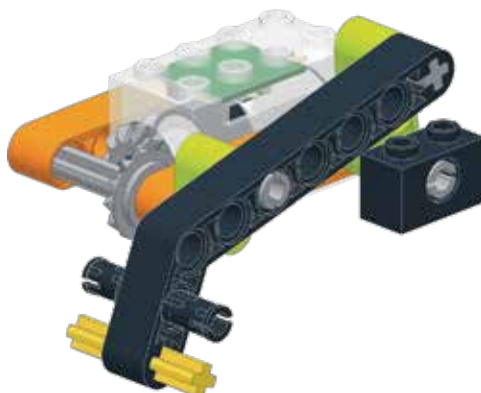
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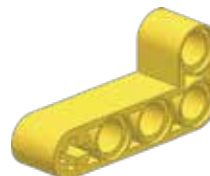
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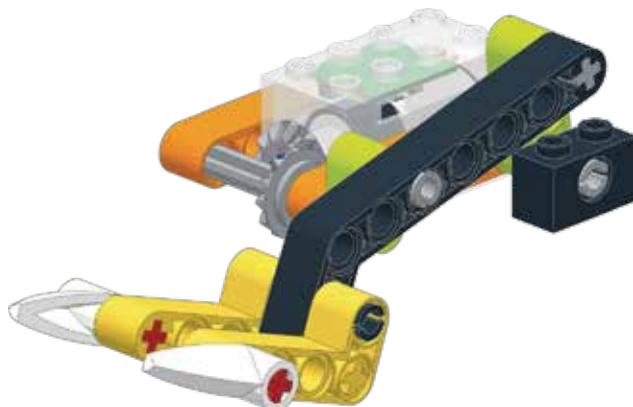
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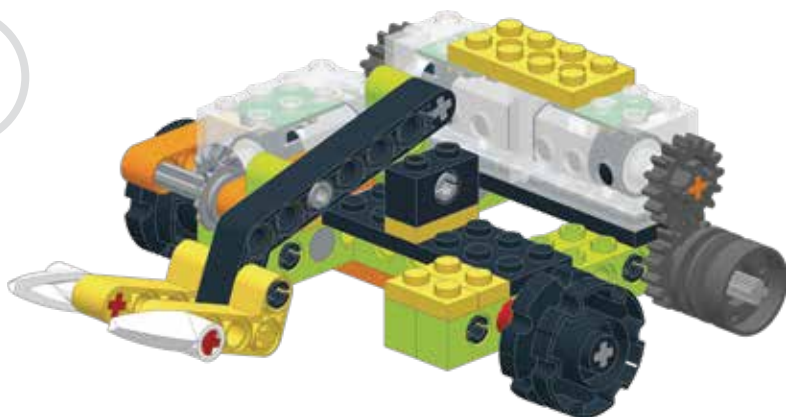
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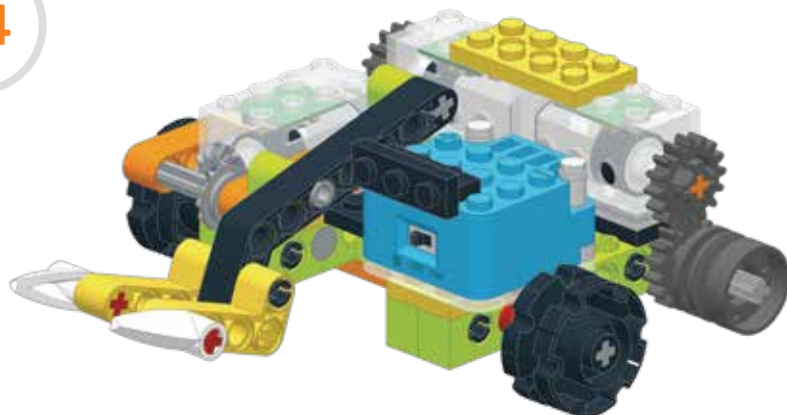
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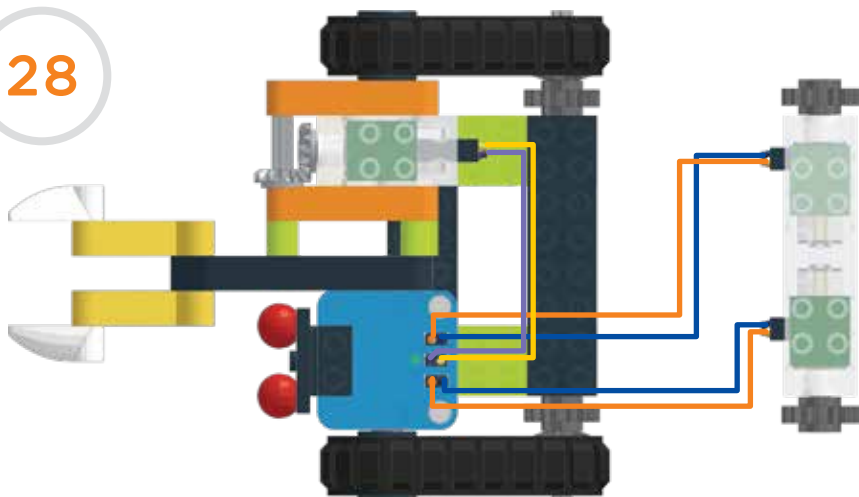
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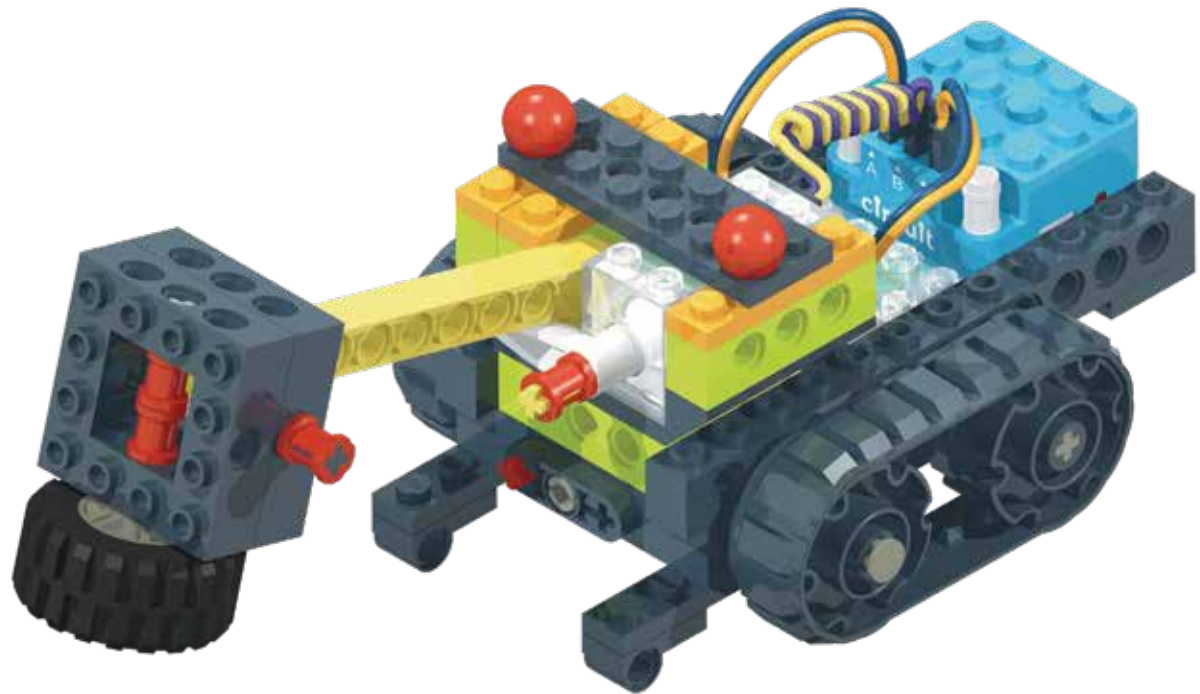
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XR-B1 CONTROLS



XR-B2



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1:1 SCALE



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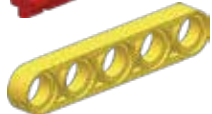
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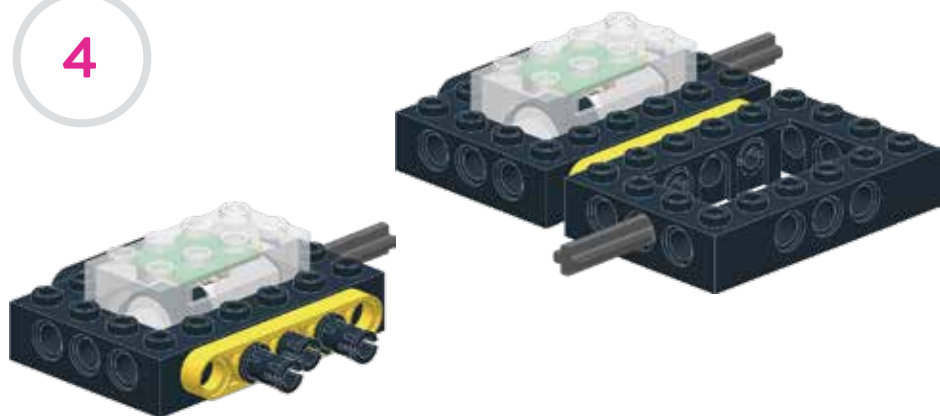
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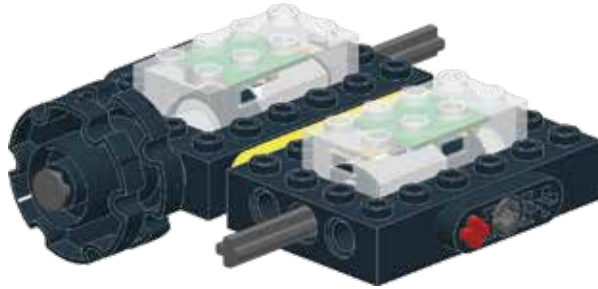
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1:1 SCALE



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1:1 SCALE



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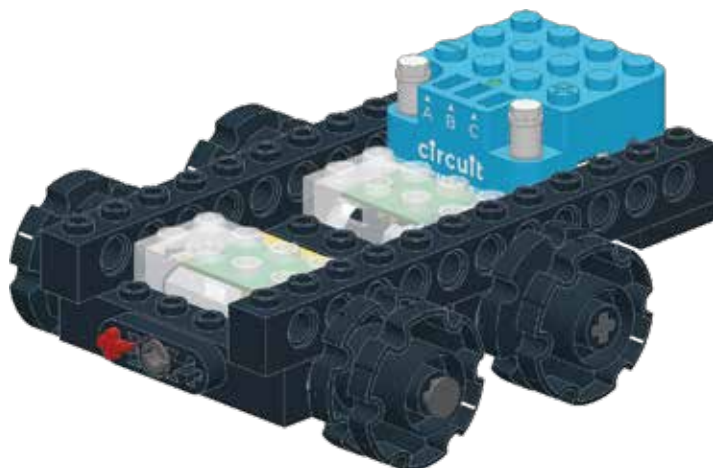
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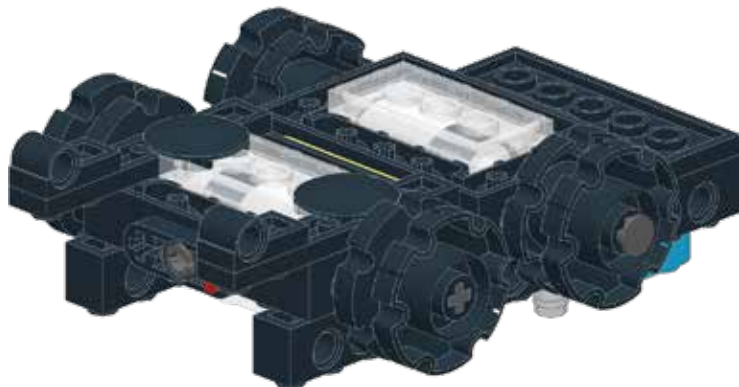
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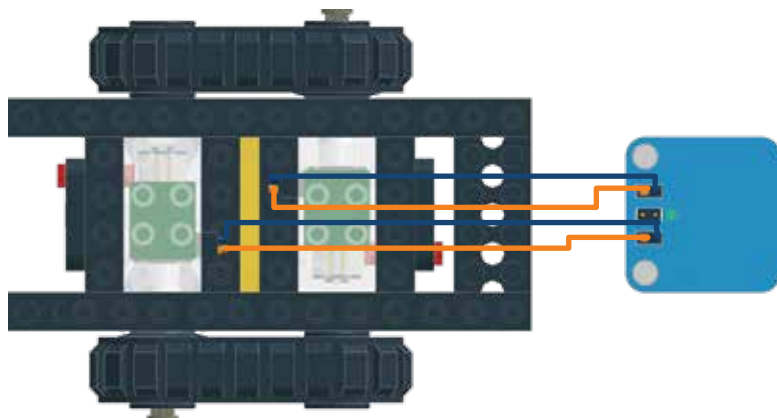
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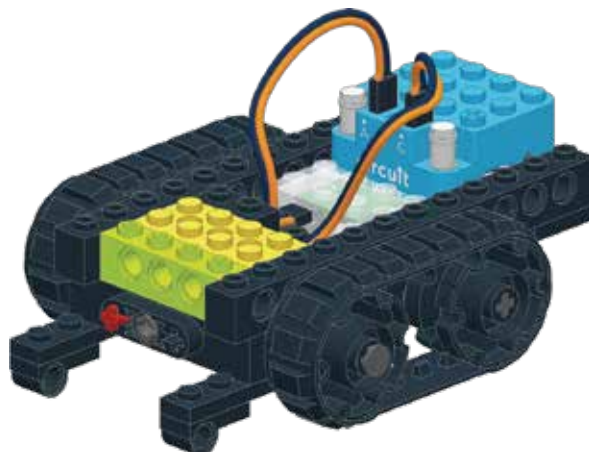
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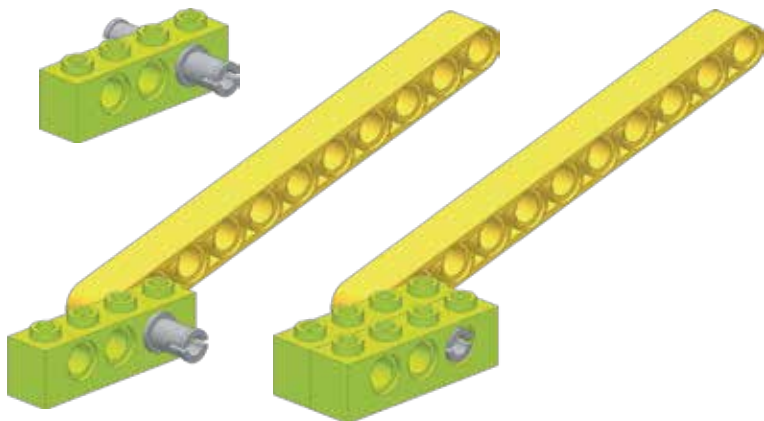
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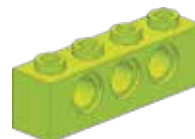
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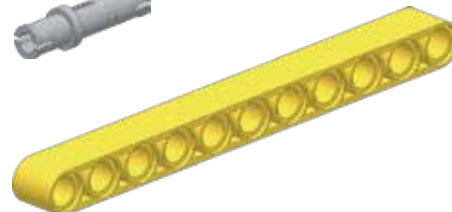
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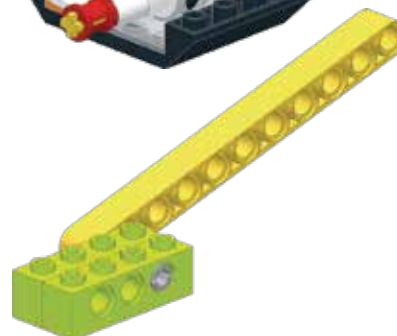
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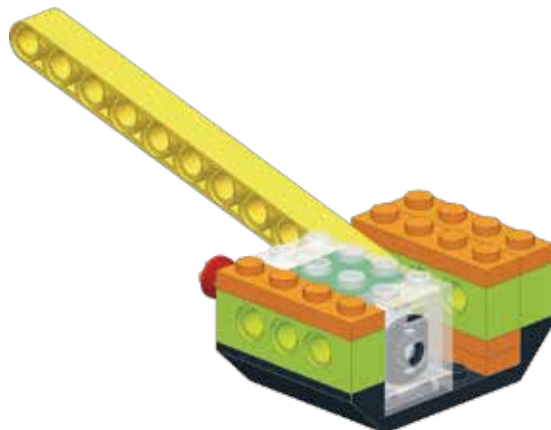
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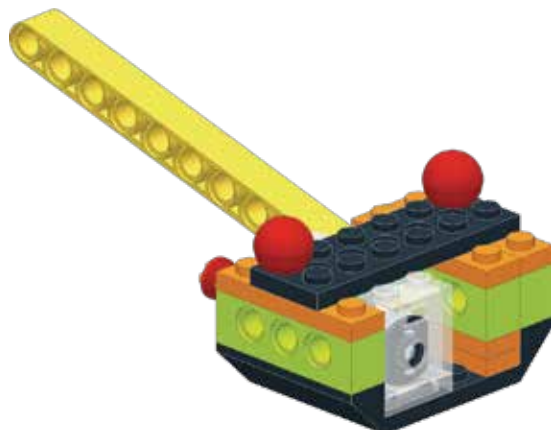
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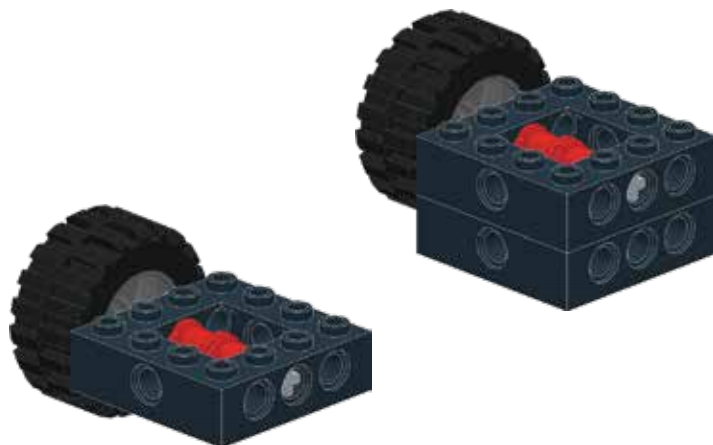


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1:1 SCALE



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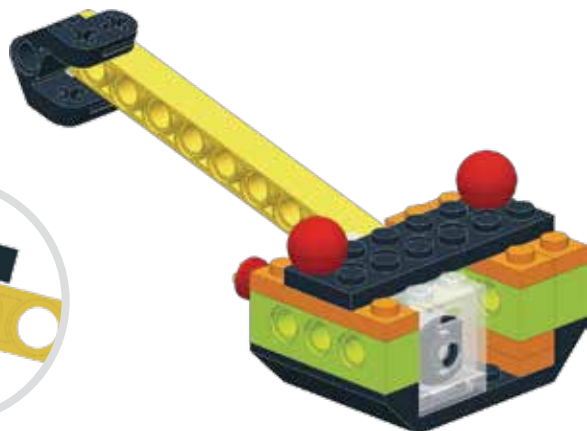
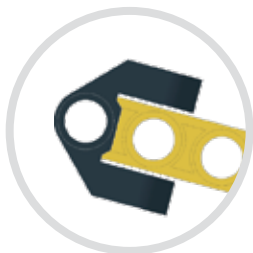
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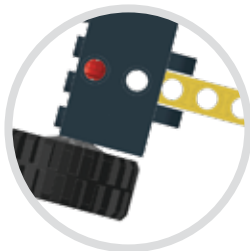
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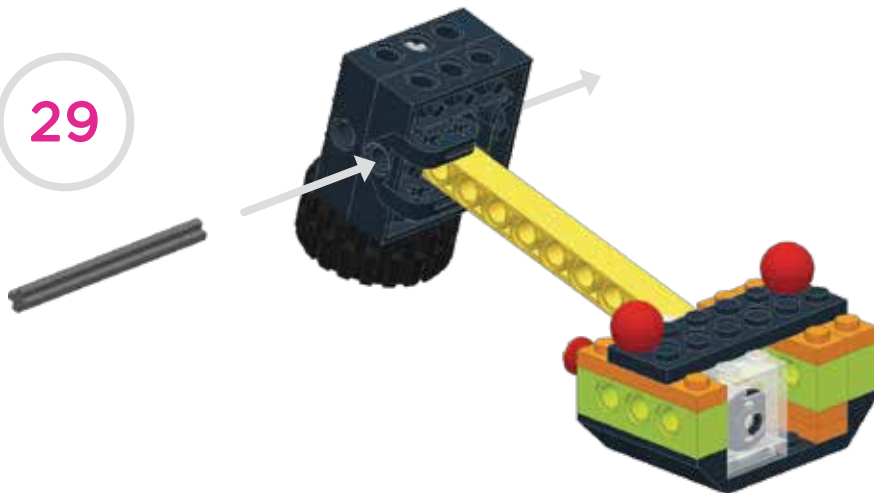
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1:1 SCALE



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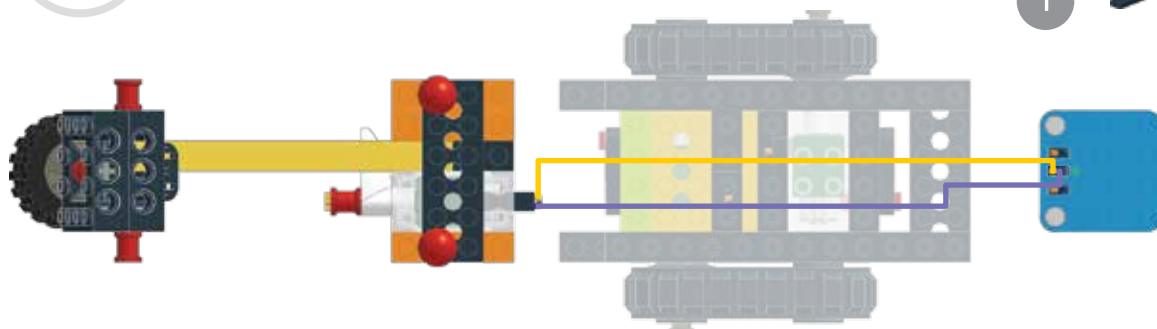
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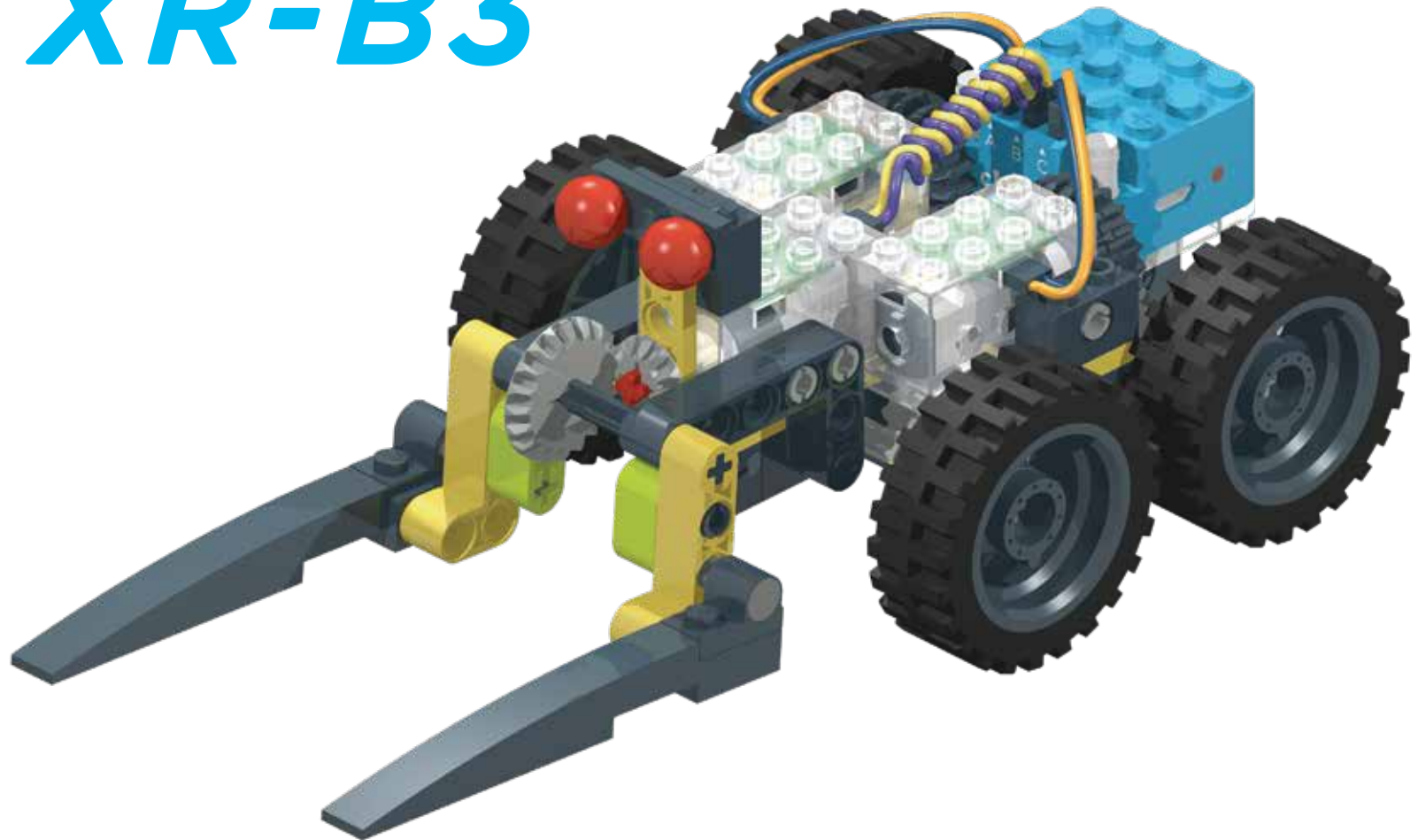
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XR-B2 CONTROLS



XR-B3



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1:1 SCALE



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1:1 SCALE



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1:1 SCALE



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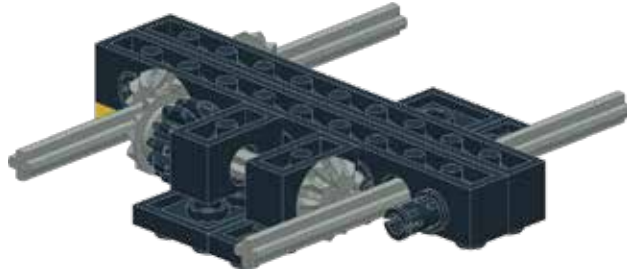


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1:1 SCALE



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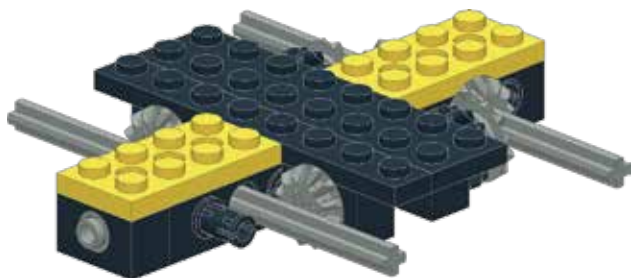
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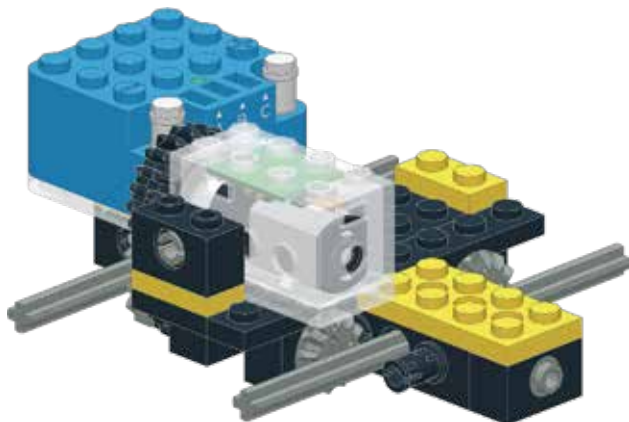
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