







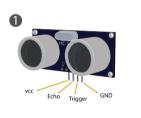


SonicBot

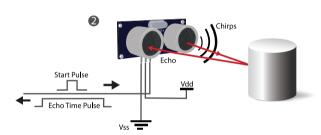
SonicBot is a REX robot that detects objects in front of it by using the HCSR04 (Distance Sensor) and determines its next movements accordingly. By utilizing the HCSR04 distance sensor converter, you can effortlessly connect the HCSR04 distance sensor to the connector on the REX board using a single cable.

How Does SonicBot Detect The Objects In Front of It?

SonicBot detects objects in front of it thanks to the HCSR04 distance sensor located in its body. The HCSR04 distance sensor is an input sensor with 4 pin ports as GND, VCC, Trigger and Echo. The distance between the sensor and the object in front of it is measured by using the return time of the ultrasonic wave sent from the trigger pin to the echo pin.

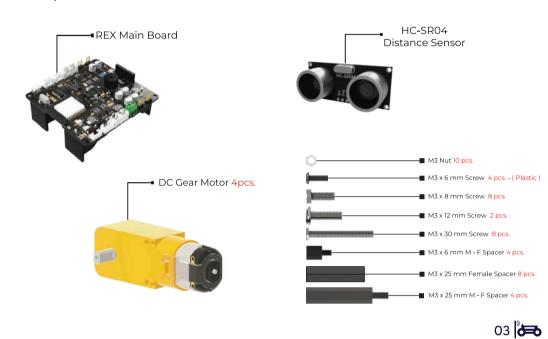


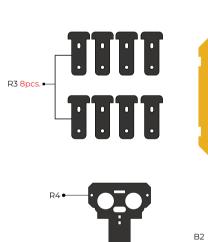


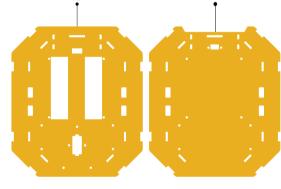


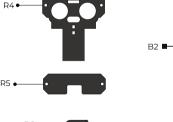






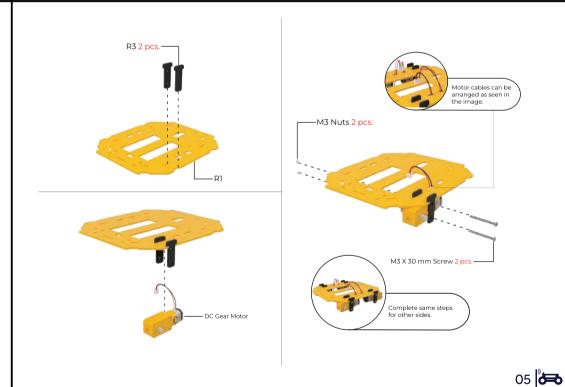


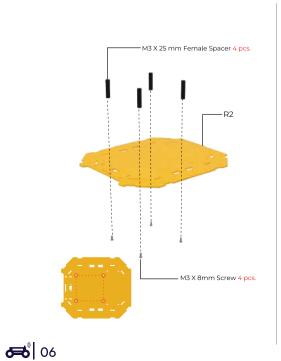


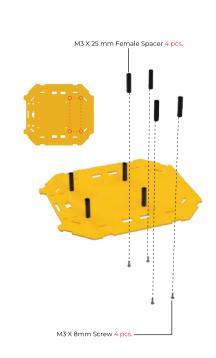


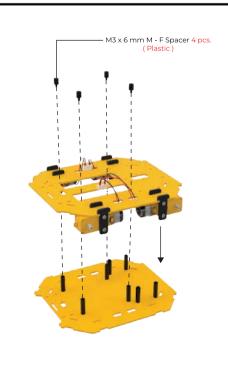


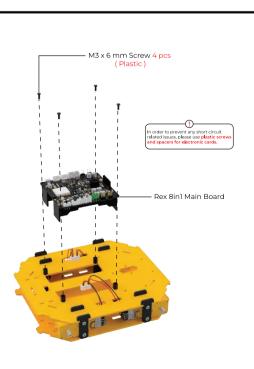


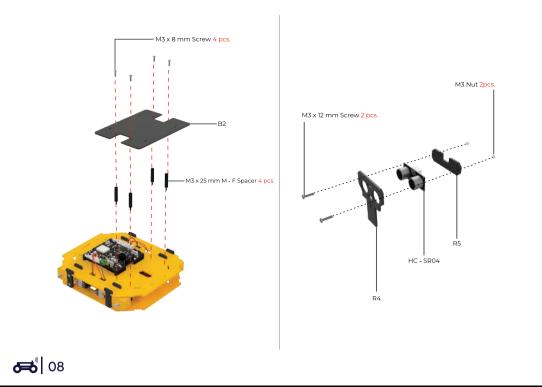




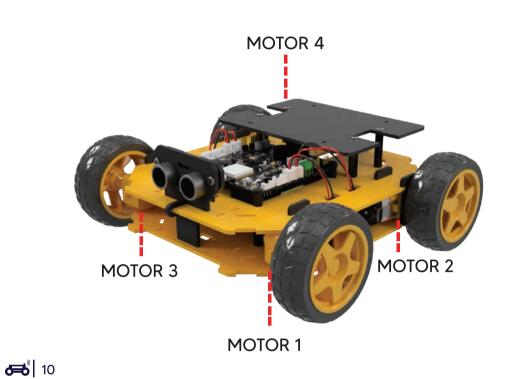






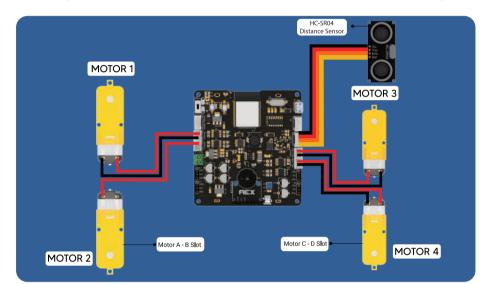






The Circuit Diagram

After assembling the acrylic pieces, you can proceed with circuit installation as shown in the diagram below.



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2 Set consist = 5; // Ethe
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4 series slow 120
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8 selectine stored 15
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