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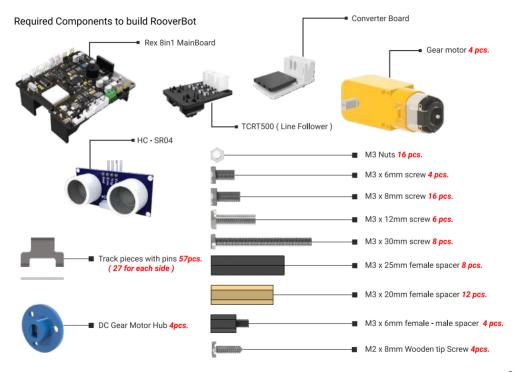
RoverBot

Unlike other REX robots, RoverBot uses pallets in its movement mechanism. Thanks to its tracked structure, it has more mobility in rugged terrain than the other REX robots.

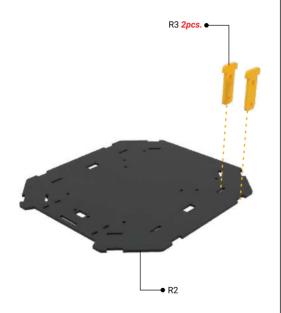
Advantages of Tracked Vehicles Compared to Other Vehicles

- It can move more easily on rugged terrain than other vehicles because the surface area of the part that provides the movement is wider.
- It can climb steeper ramps than other vehicles because it holds onto the ground better thanks to terrain.

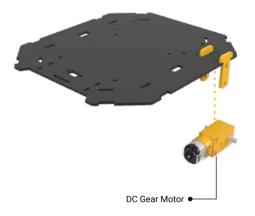
The Installation Steps

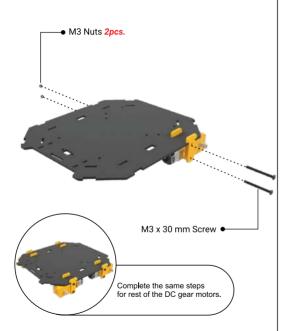


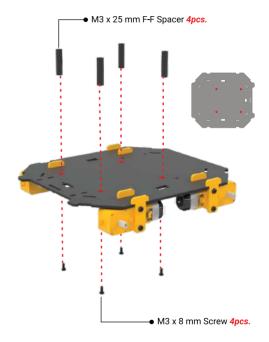
R1 **● Required Parts** R3 **8pcs.** ◆ R6 ● R8 **8pcs**. **●** R2

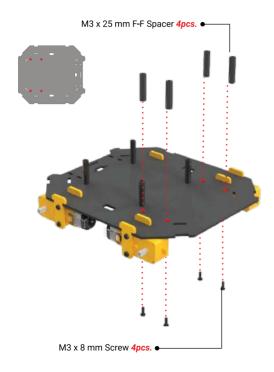


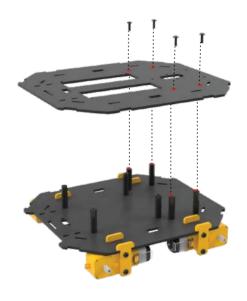
Cables should be oriented inward.

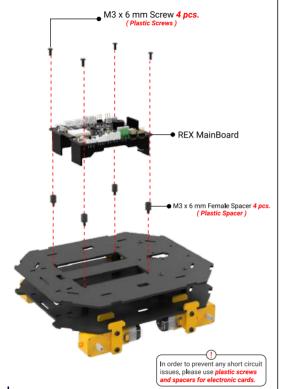


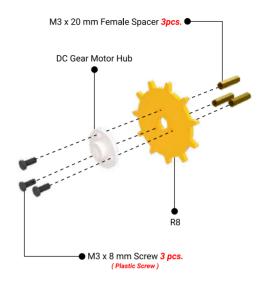


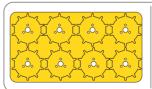










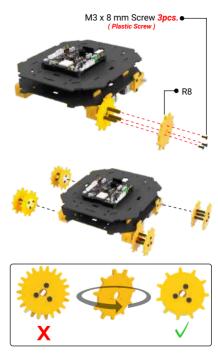


In order to prevent tracks beign demounted please use R8 part from this plate.

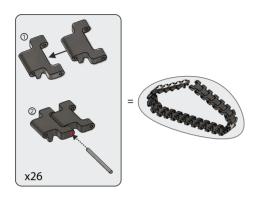
(If you don't have this plate inside the package that means you have updated version of kit and you can proceed.)





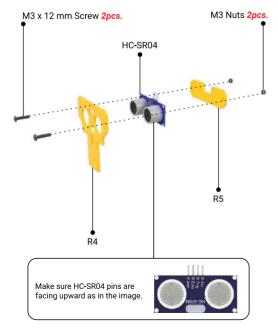


If you encounter any issues with misaligned gears or misaligned holes, we highly recommend flipping the piece as a solution. This straightforward action will effectively resolve the problem.





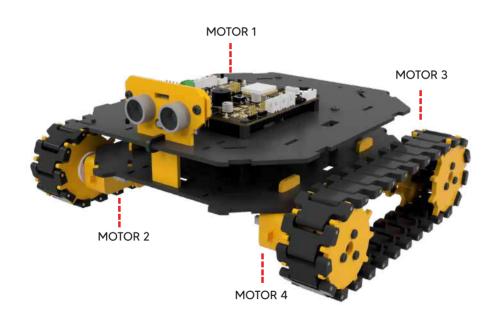




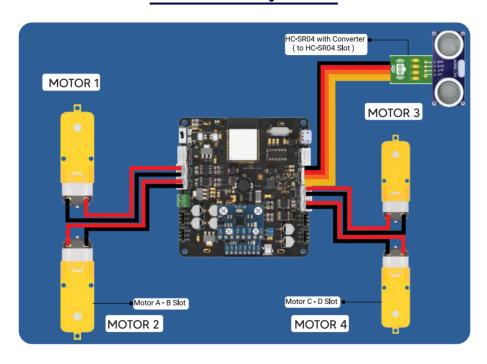




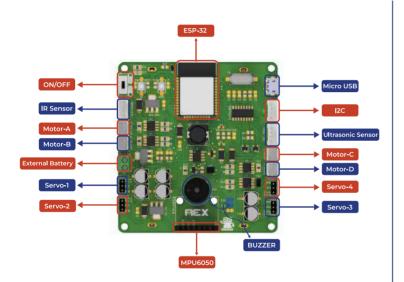




The Circuit Diagram



REX Main Board Diagram





Arduino Code

RoverBot Inc.

```
//"""REX SIn1 Rover Bot"""
     //Check the web site for Robots https://rex-rdt.readthedocs.io/en/latest/
     // you can also control arm bot in this code.
     #define CUSTOM SETTINGS
     #define INCLUDE GAMEPAD MODULE
    #include <DabbleESP32.h>
     #include <Arduino.b>
     #include <analogWrite.h>
     #include <ESP32Servo.h>
11
12
     enum MOTOR TYPE {
13
       DC MOTOR,
14
      SERVO MOTOR
15
     enum MOTOR_TYPE motorType = DC_MOTOR;
16
17
     int position1 = 90;
18
     int position2 - 90:
19
     int position3 = 90;
20
     int position4 = 90;
21
22
     #define MotorA1 23
23
     #define MotorA2 15
24
25
26
    #define MotorBi 33
     #define MotorB2 32
27
28
    #define MotorC1 16
29
    #define MotorC2 17
30
31
32 #define MotorD1 14
33 #define MotorD2 27
34
35
    #define horn 2
```



Scan the QR code to go to the whole code and the necessary libraries.









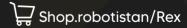
rbt.ist/rexgithub





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