

# REX8



GitHub  
rbt.ist/rexgithub

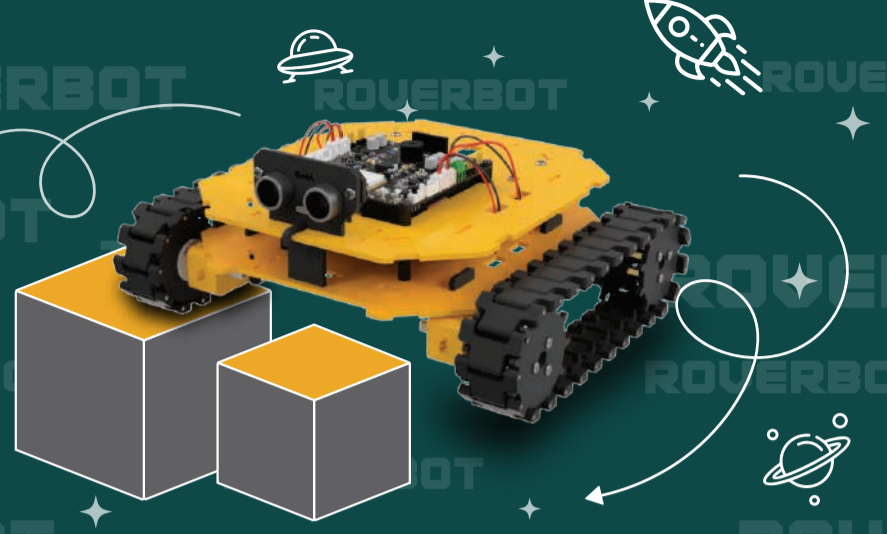


REX DOCS  
rbt.ist/rexrdt



REX'i Keşfet  
rbt.ist/rex8in1

# ROVERBOT KURULUM KILAVUZU



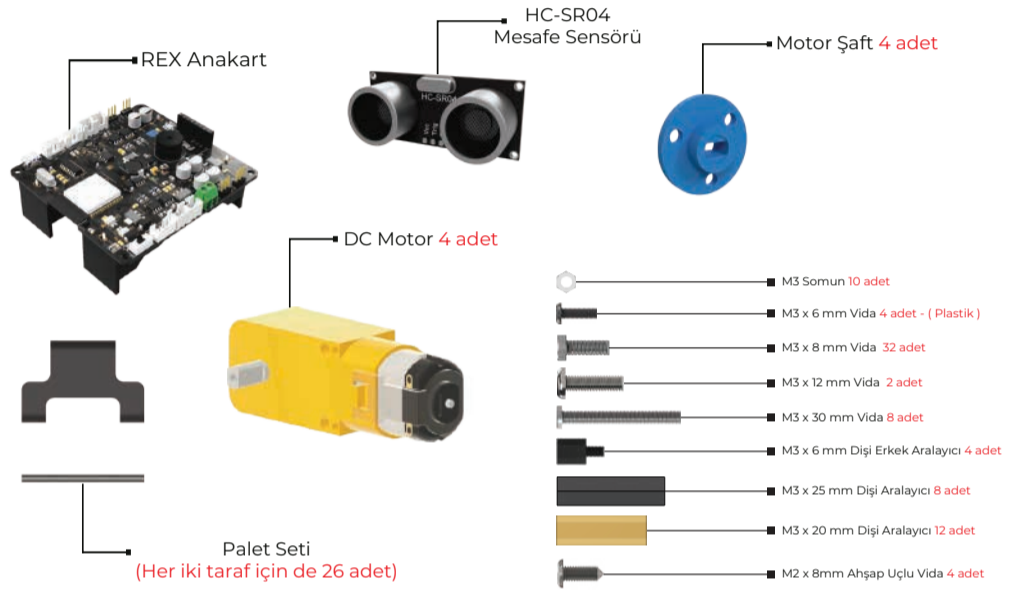
## RoverBot

RoverBot, diğer REX robotlarından farklı olarak hareket mekanizmasında palet kullanır. Paletli yapısı sayesinde engebeli arazilerde diğer REX robotlarına göre hareket kabiliyeti daha fazladır.

### Paletli Araçların Diğer Araçlara Göre Avantajları

- Engelibeli arazilerde diğer araçlara göre daha rahat hareket eder çünkü hareketi sağlayan kısmın yüzey alanı daha geniştir.
- Diğer araçlara göre daha dik rampalara tırmanabilir çünkü paletleri sayesinde zemine daha iyi tutunur.

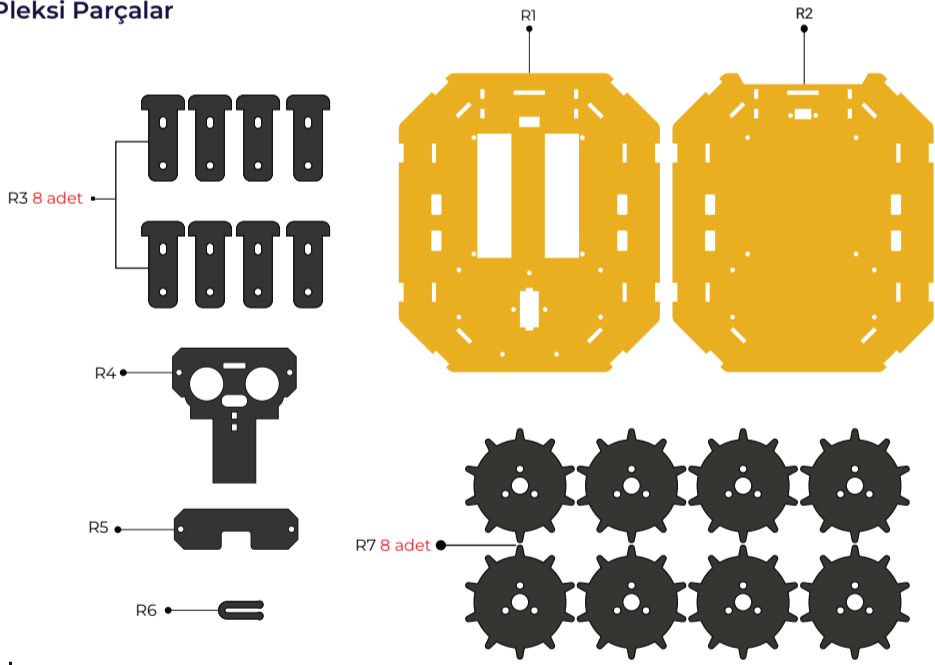
### RoverBot için Gerekli Komponentler



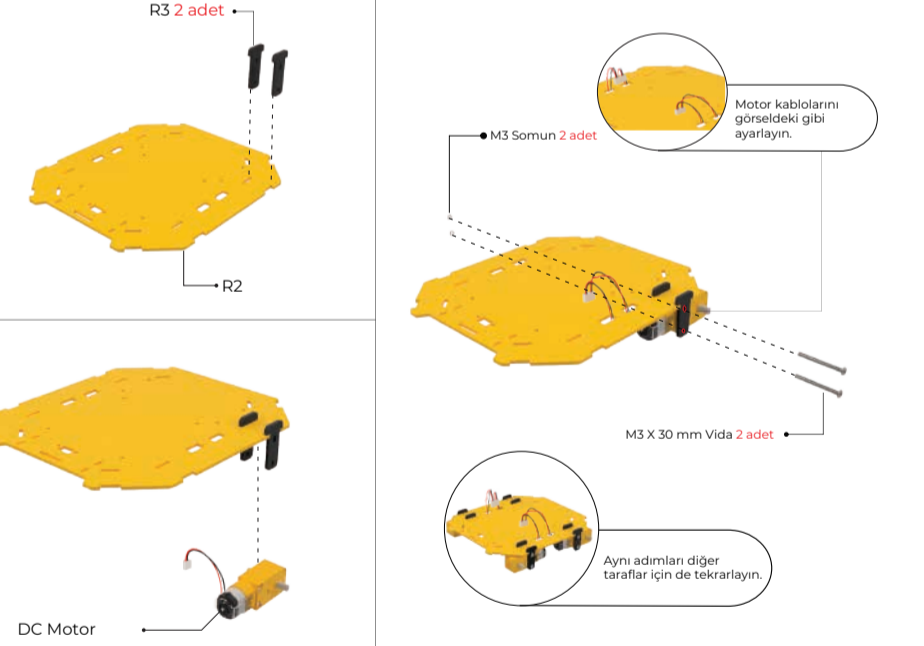
02

03

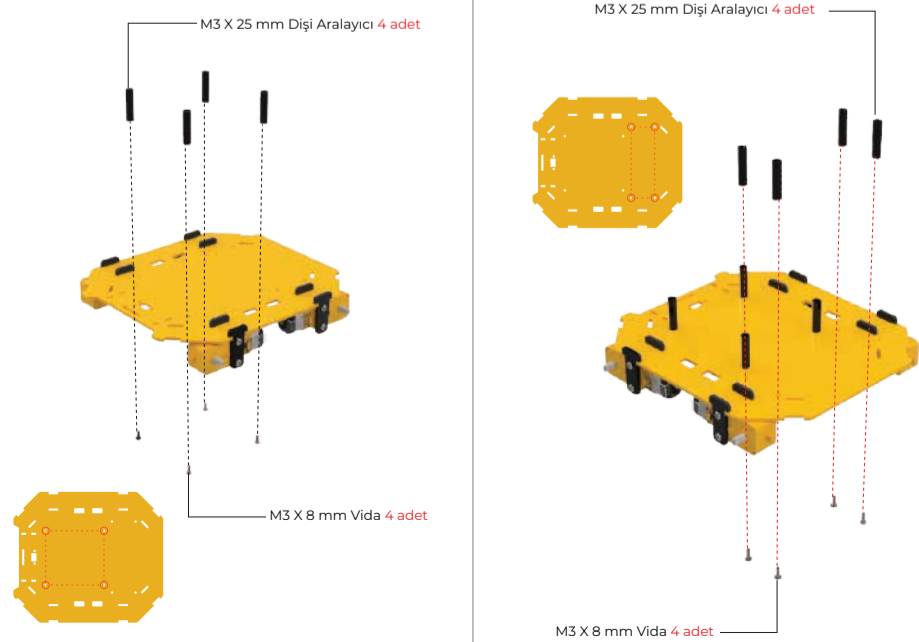
### Pleksi Parçalar



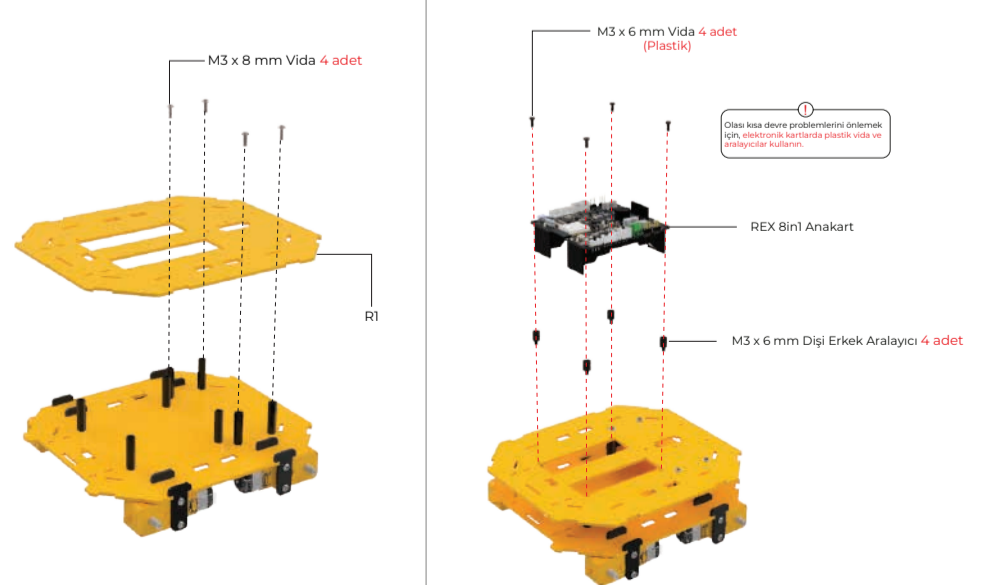
04



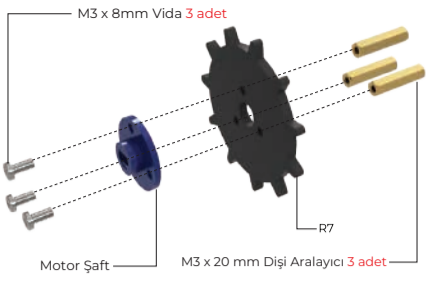
05



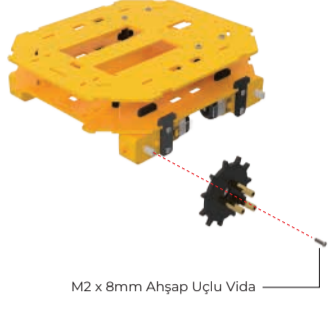
06



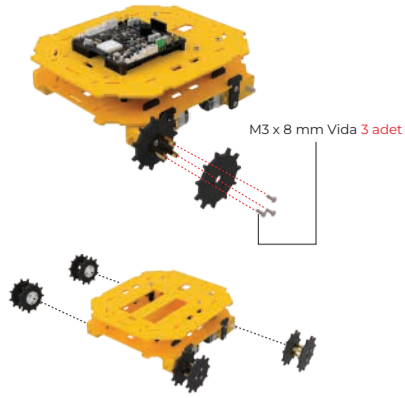
07



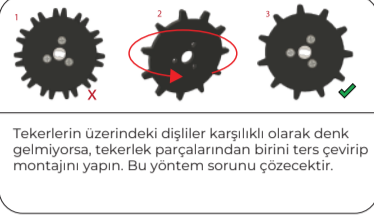
M3 x 8mm Vida 3 adet  
Motor Şaft  
M3 x 20 mm Dişi Aralayıcı 3 adet



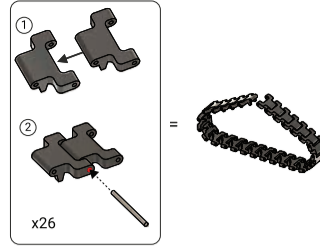
M2 x 8mm Ahşap Uçlu Vida



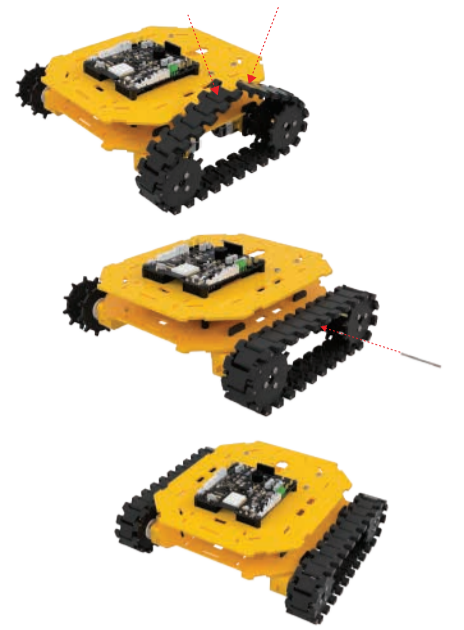
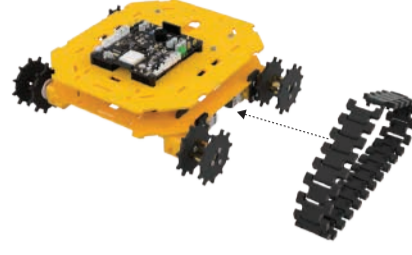
M3 x 8 mm Vida 3 adet



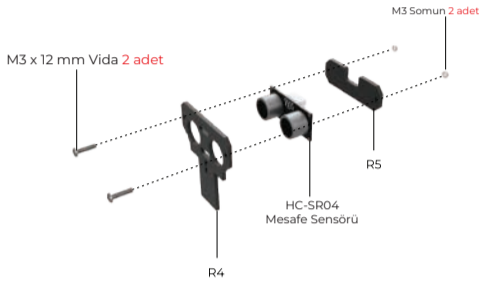
Tekerlerin üzerindeki dişler karşılıklı olarak denk gelmiyorsa, tekerlek parçalarından birini ters çevirip montajını yapın. Bu yöntem sorunu çözecektir.



x26



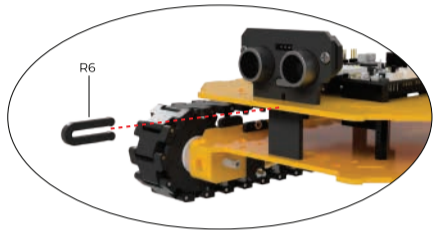
Paletleri her iki tarafa da yerleştirin.



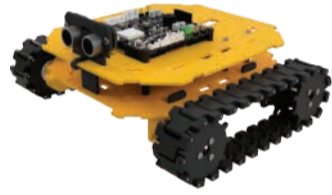
M3 x 12 mm Vida 2 adet

M3 Somun 2 adet

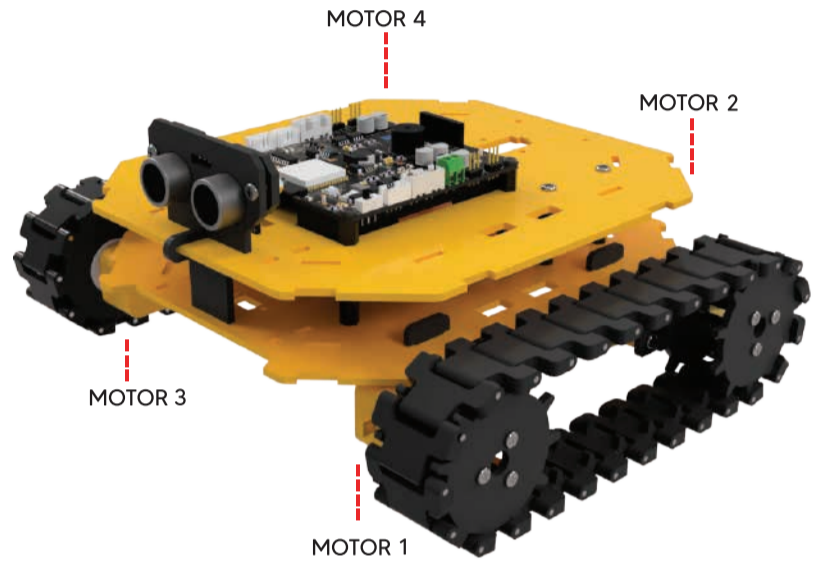
R4  
R5  
HC-SR04 Mesafe Sensörü



R6



Kurulum tamamlandı, kodlama adımlarına geçebilirsiniz.



MOTOR 3

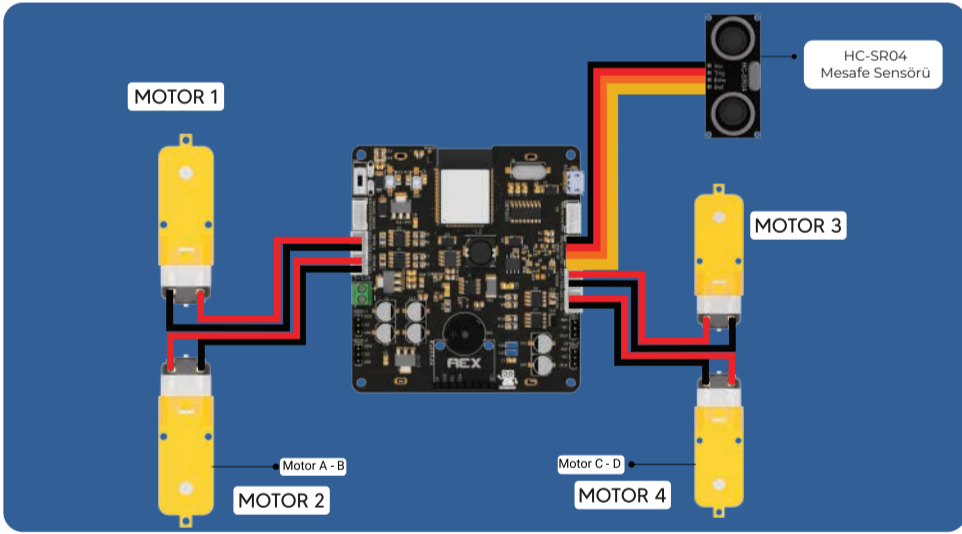
MOTOR 1

MOTOR 4

MOTOR 2

## Devre Şeması

Pleksi parçaları kurduktan sonra, devre kurulumunu aşağıdaki şemada gösterildiği şekilde yapabilirsiniz.



## Arduino Kodları

```

RoverBot.ino
1 //""REX 8in1 Rover Bot""
2 //Check the web site for Robots https://rex-rdt.readthedocs.io/en/latest/
3 // you can also control arm bot in this code.
4 #define CUSTOM_SETTINGS
5 #define INCLUDE_GAMEPAD_MODULE
6
7 #include <DabbleESP32.h>
8 #include <Arduino.h>
9 #include <analogWrite.h>
10 #include <ESP32Servo.h>
11
12 enum MOTOR_TYPE {
13     DC_MOTOR,
14     SERVO_MOTOR
15 };
16 enum MOTOR_TYPE motorType = DC_MOTOR;
17
18 int position1 = 90;
19 int position2 = 90;
20 int position3 = 90;
21 int position4 = 90;
22
23 #define MotorA1 23
24 #define MotorA2 15
25
26 #define MotorB1 33
27 #define MotorB2 32
28
29 #define MotorC1 16
30 #define MotorC2 17
31
32 #define MotorD1 14
33 #define MotorD2 27
34
35 #define horn 2
    
```

<http://rbt.ist/roverbotcode>



Kodun tamamına ve gerekli olan kütüphanelere gitmek için QR kodu okutunuz.