

REX8



GitHub
rbt.ist/rexgithub

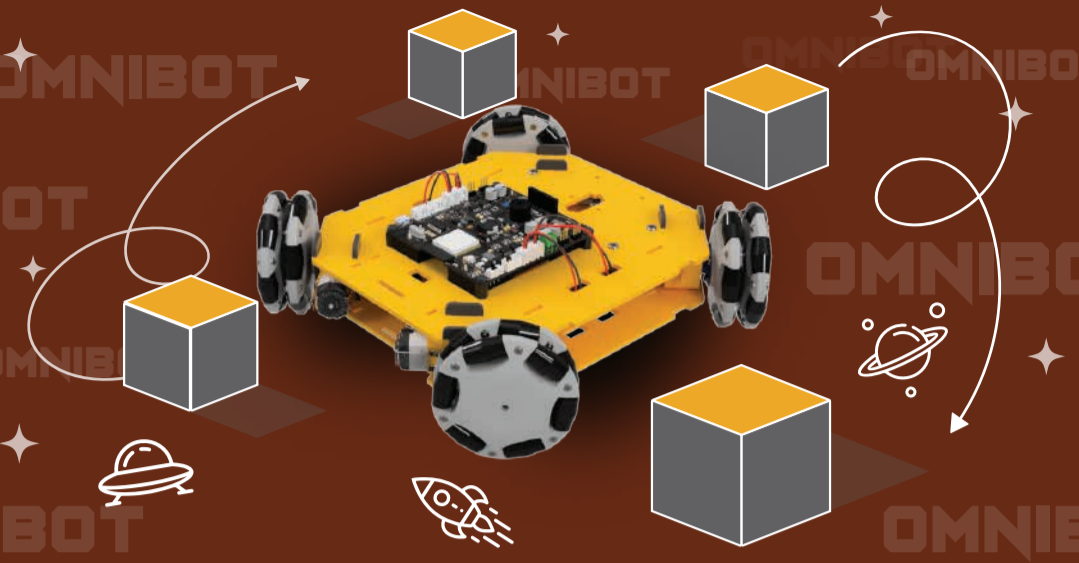


REX DOCS
rbt.ist/rexrdt



REX'i Keşfet
rbt.ist/rex8in1

OMNIBOT KURULUM KILAVUZU



OmniBot

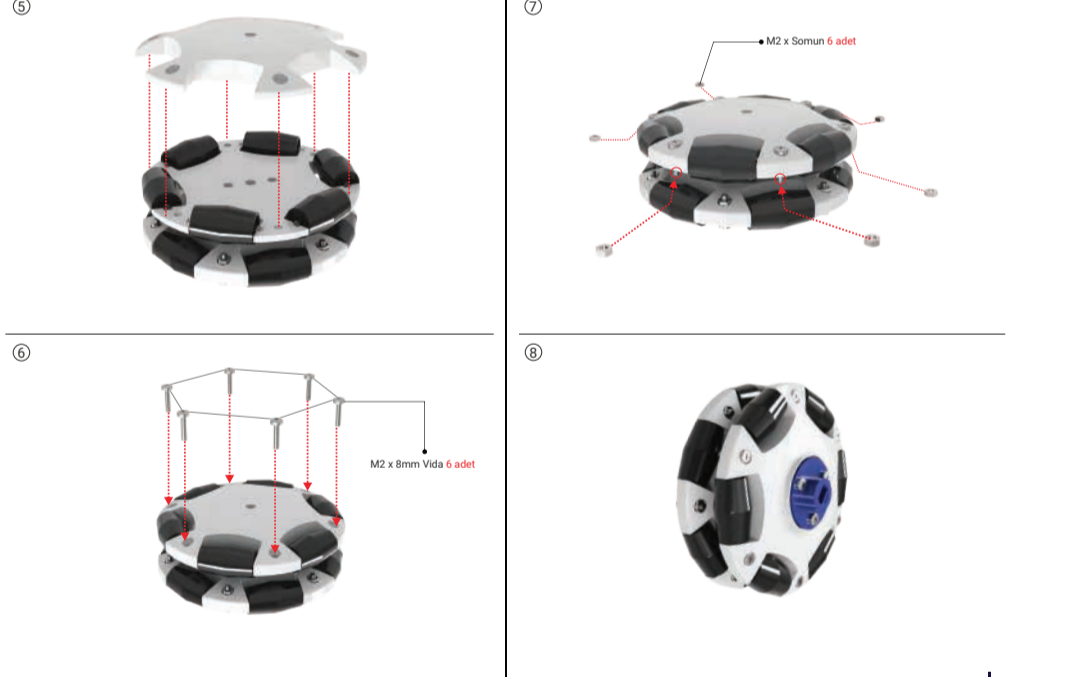
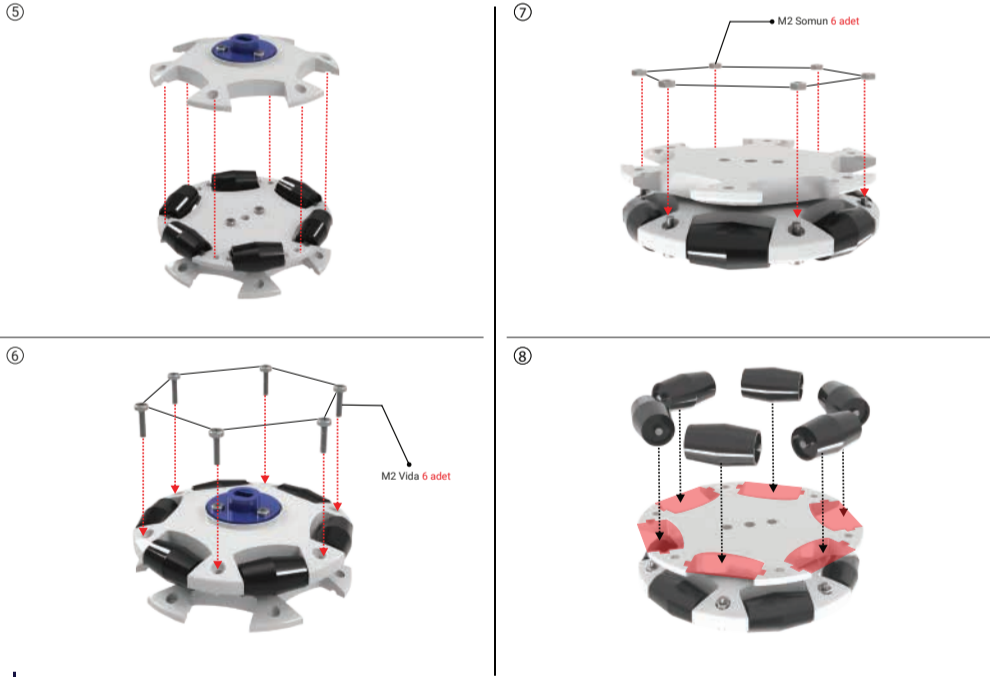
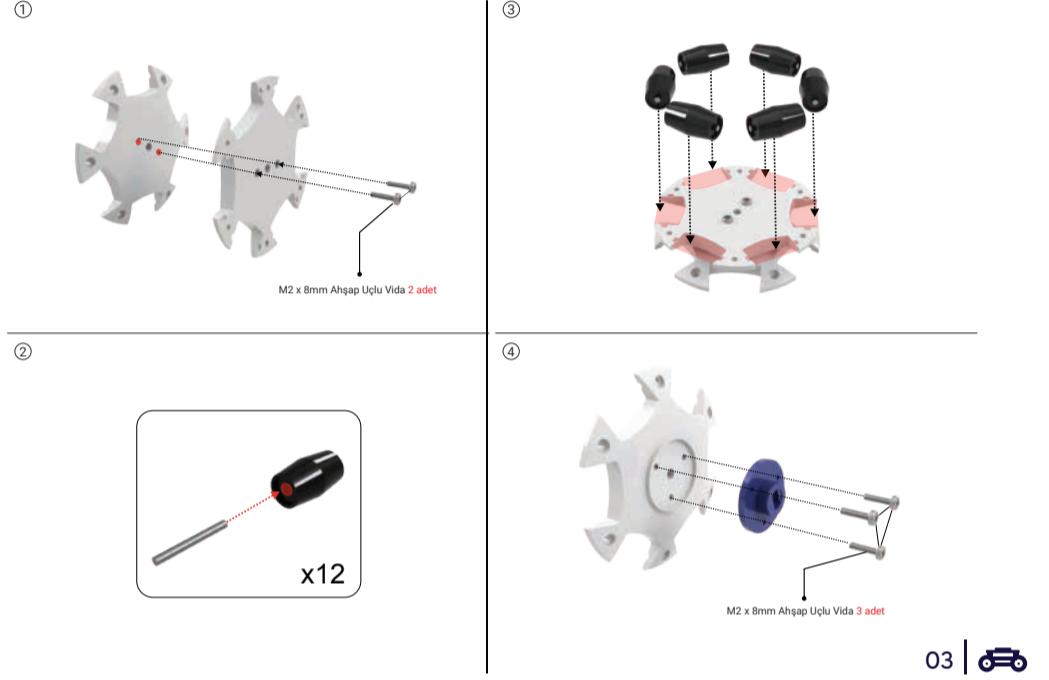
OmniBot, diğer REX robotlarından farklı olarak özel tasarlanan omni tekerlekleri kullanır. Bu tekerlekler, OmniBot'a 360° kolay hareket özelliği sağlamaktadır. Omni tekerlekler sayesinde OmniBot dönme hareketi yapmadan istediği açıda ilerleyebilir.

Omni Tekerlekler Nasıl Çalışır?

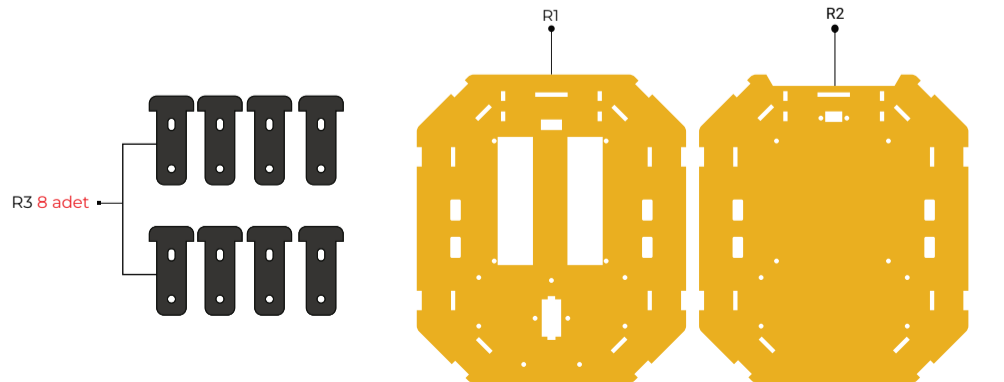
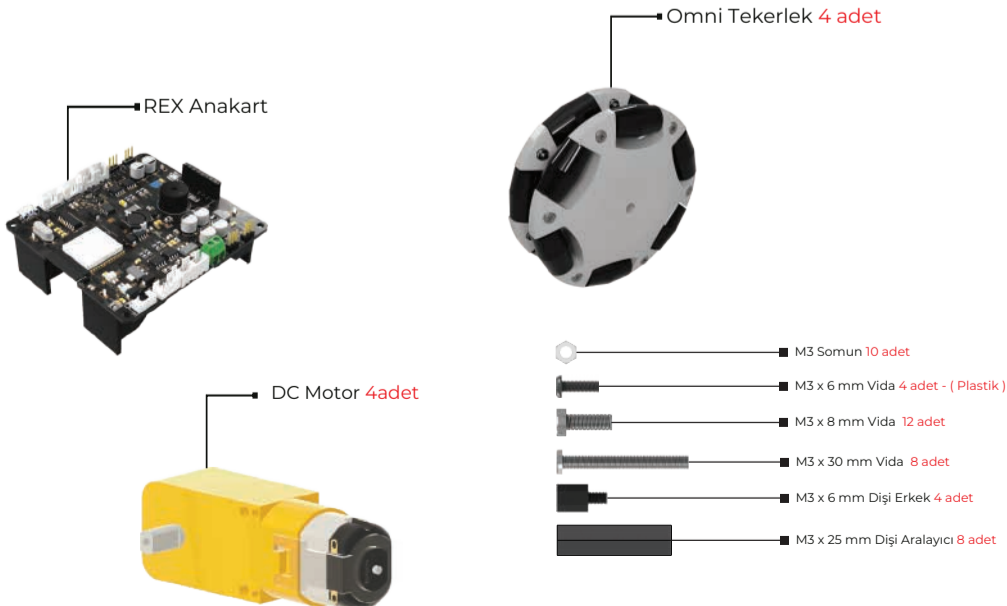
OmniBot, 4 adet DC motor kullanan bir robottur. 4 adet omni tekerlek kullanan bir robotun nasıl hareket ettiğini aşağıdaki görselle inceleyelim.

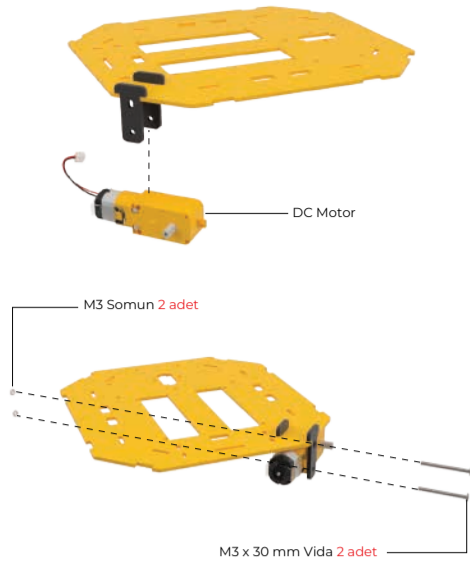
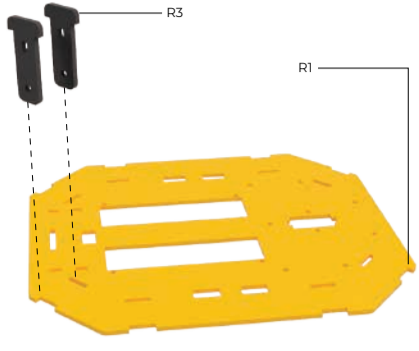


Omni Tekerleklerin Kurulumu

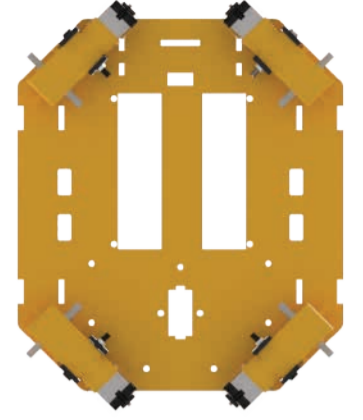


OmniBot için Gerekli Komponentler

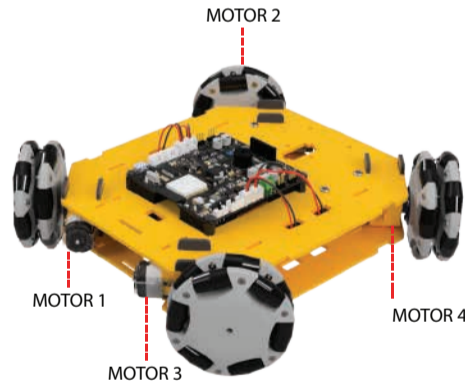
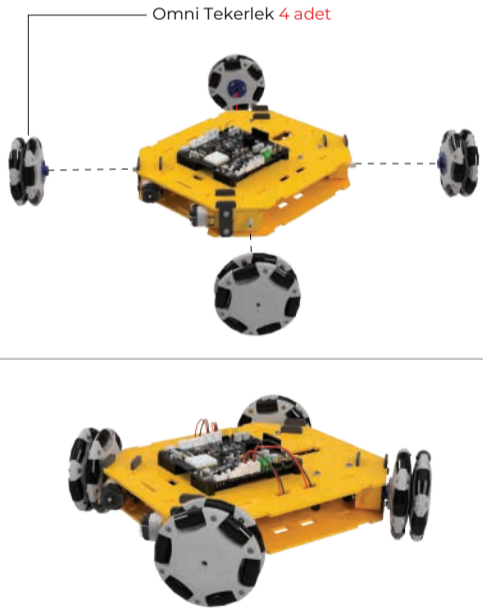
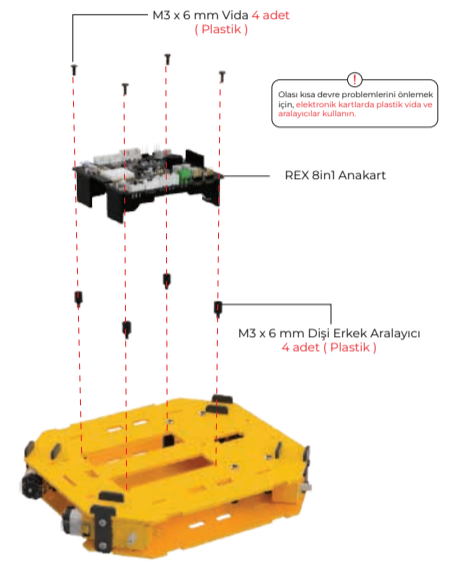
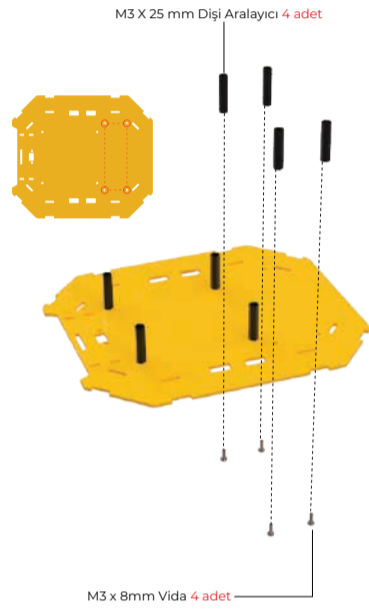
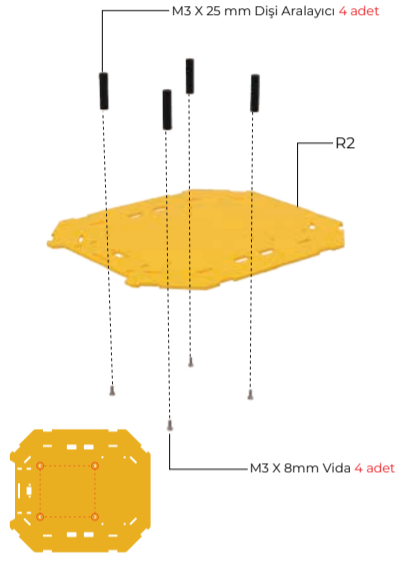




Aynı kurulum adımlarını diğer motorlar için de tekrarlayın.



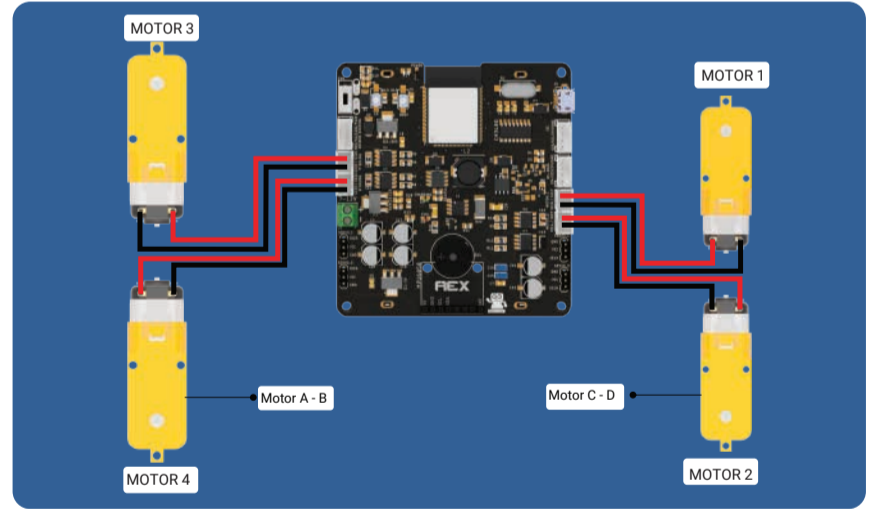
DC motorların pozisyonları görseldeki gibi olmalıdır.



Kurulum tamamlandı, kodlama adımlarına geçebilirsiniz.

Devre Şeması

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



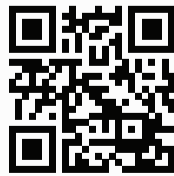
Arduino Kodları

```

1 // REX B1N1 Omni Bot
2 // Check the web site for Robots https://res-rbt-muhtedus.com/jatest/
3
4 #define CUSTOM_SETTINGS
5 #include <Arduino.h>
6
7 #include <ESP32.h>
8 #include <Servo.h>
9 #include <ESP32Servo.h>
10
11
12
13 // Define pins of motors
14 // DC Motor 1
15 #define Motor1 31
16 #define Motor2 32
17
18 // DC Motor 2
19 #define Motor3 31
20 #define Motor4 32
21
22 // DC Motor 3
23 #define Motor1 31
24 #define Motor2 32
25
26 // DC Motor 4
27 #define Motor1 31
28 #define Motor2 32
29 #define horn 2
30
31 #define low_s 300
32 #define mid_s 250
33 #define high_s 200
34
35 int i = 0;
36
37 void setup() {
38 // Active pins which is defined
39 pinMode(horn, OUTPUT);
40
41 pinMode(Motor1, OUTPUT);
42 pinMode(Motor2, OUTPUT);
43

```

<http://rbt.ist/omnibotcode>



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