

REX8



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ARMBOT SETUP GUIDE



ArmBot

ArmBot is a REX robot that can move items around it from one point to another, thanks to the 4-axis robot arm and wheels it has in its body.

What is Robot Arm? Where Is Robot Arm Used?

With advancements in technology, robotic arms are frequently used to reduce manpower in industrial production and prevent accidents that individuals might encounter in hazardous tasks. The capacity of the robot arm to reach various points is determined by the number of axes. The robot arm included in The REX 8 in 1 kit is a 4-axis robotic arm capable of reaching four different points by utilizing four servo motors.



Crane



Forklift



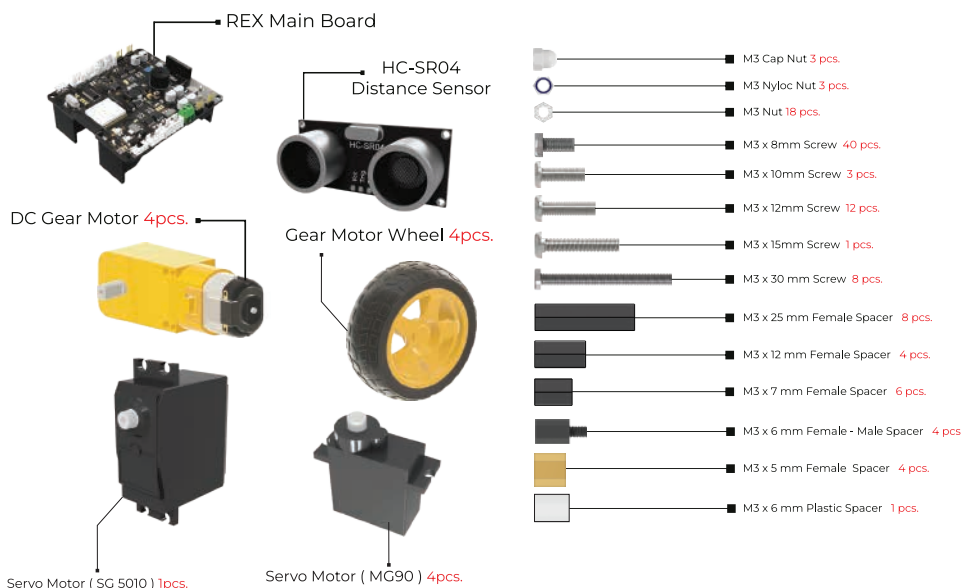
Gripper

Types of Robot Arm

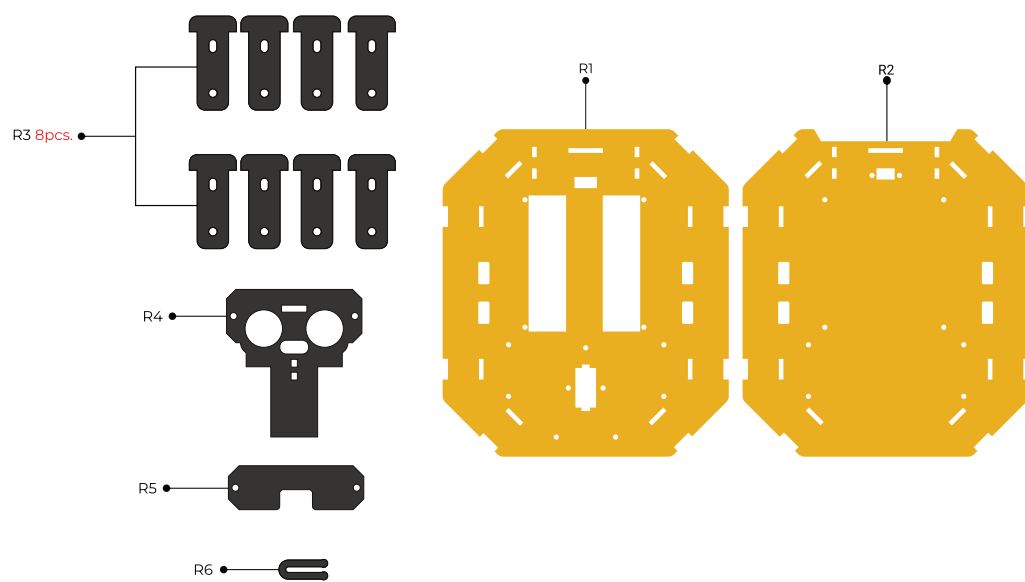
Robot arms are divided into five according to their features.

- **Joint Robot Arm**
A robot with joints that can rotate to at least three different points is referred to as a robotic arm with joints.
- **Spherical Robot Arm**
It is the robot arm that moves only spherically. The range of motion is restricted according to the length of the arms.
- **Cylindrical Robot Arm**
This type of robot arms move in a cylindrical workspace.
- **Cartesian Robot Arm**
It is a robot arm that moves linearly in the X, Y and Z axes.
- **SCARA Robot Arm**
The most fundamental characteristic that sets the SCARA Robot Arm apart from a joint robot arm is that its rotation axes are vertical. While it does not have vertical movement, it offers various options in the horizontal direction.

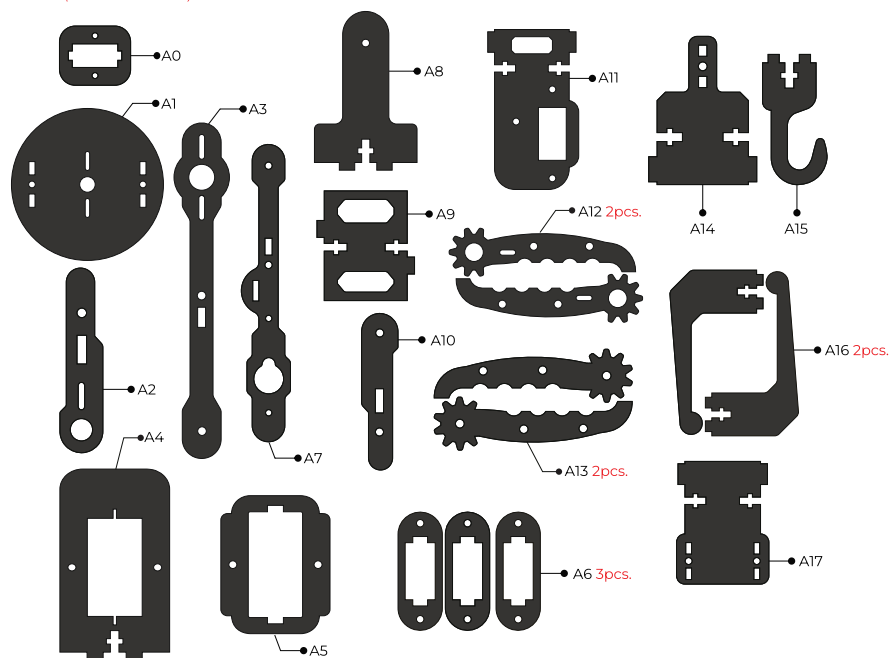
Components of ArmBot



Plexiglass Parts (Robot Chasis)

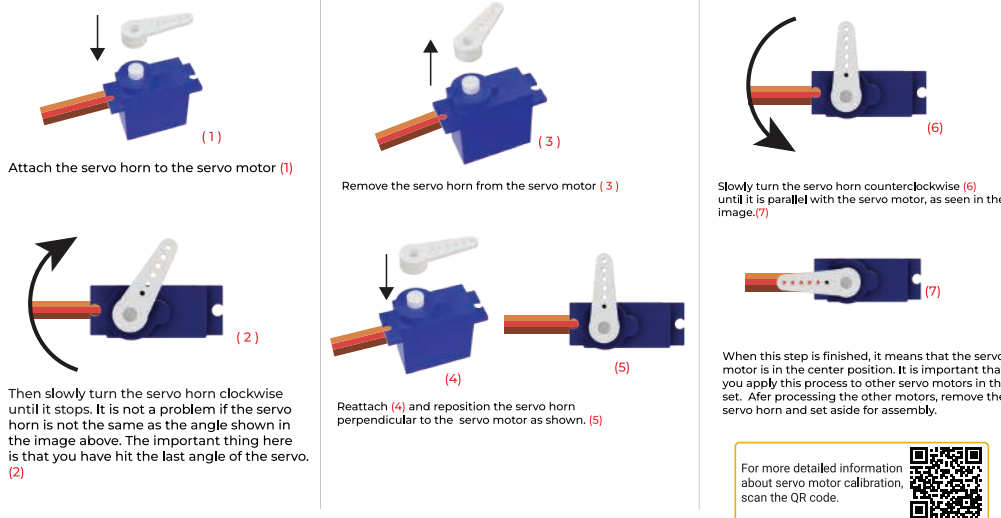


Plexiglass Parts (Robotic Arm)



Servo Motor Calibration (Essential)

Before starting the assembly, you have to manually calibrate the angles of the servo motors. Otherwise, Servo Motors won't be working properly.

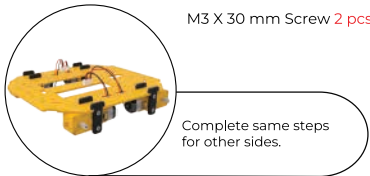
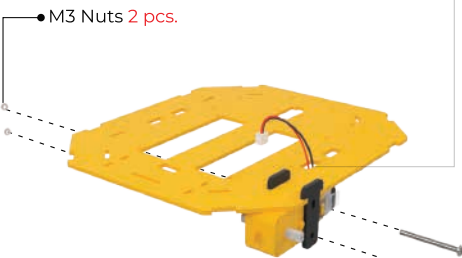


Body Assembly of The Robot

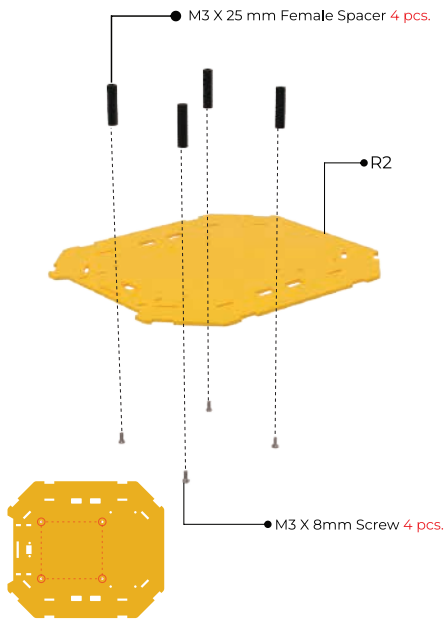
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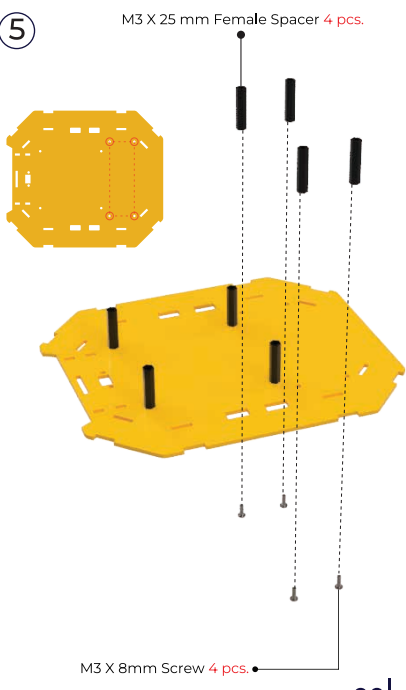
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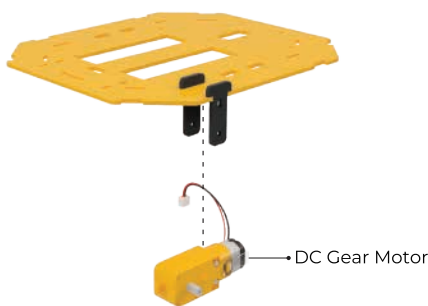
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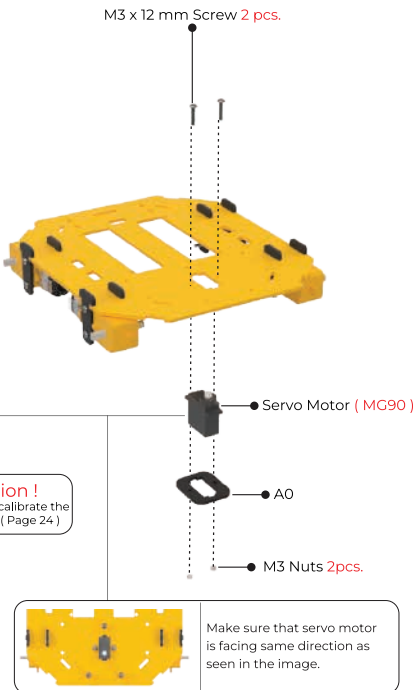
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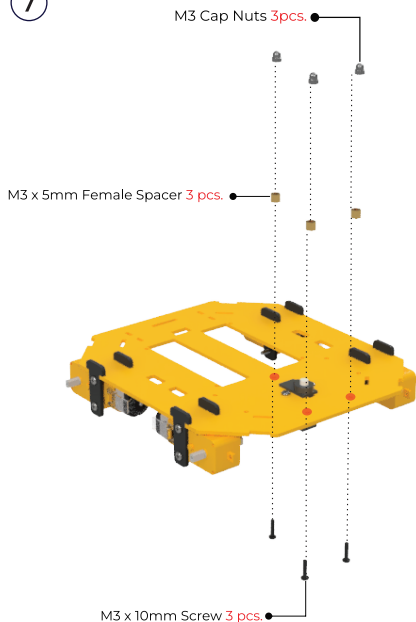
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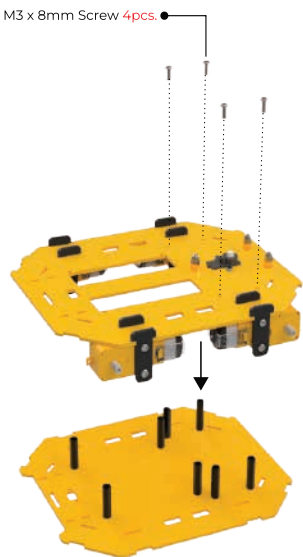


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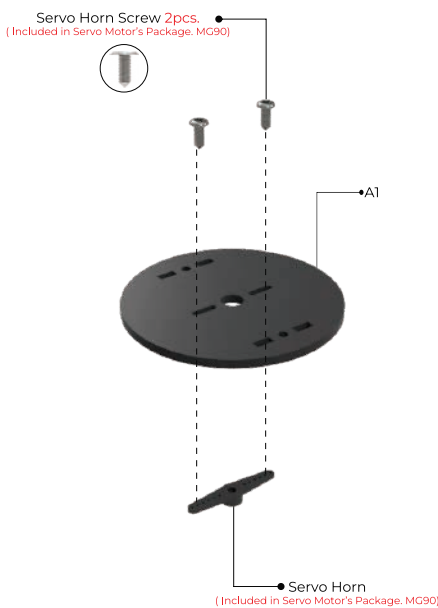


Assembly of The Robot Arm

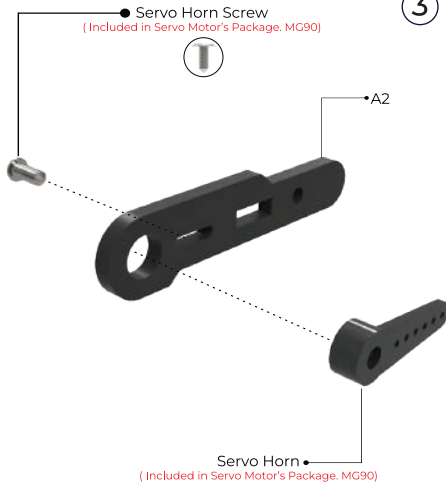
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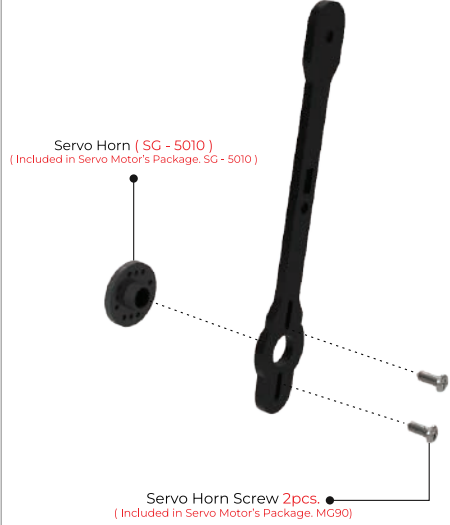
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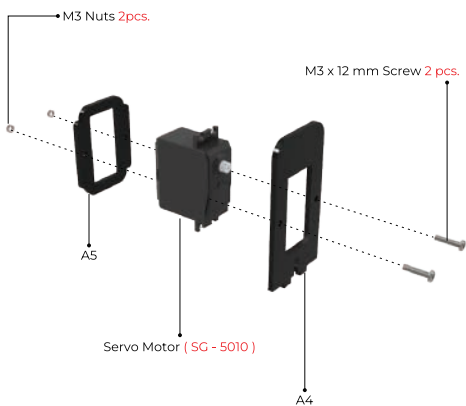
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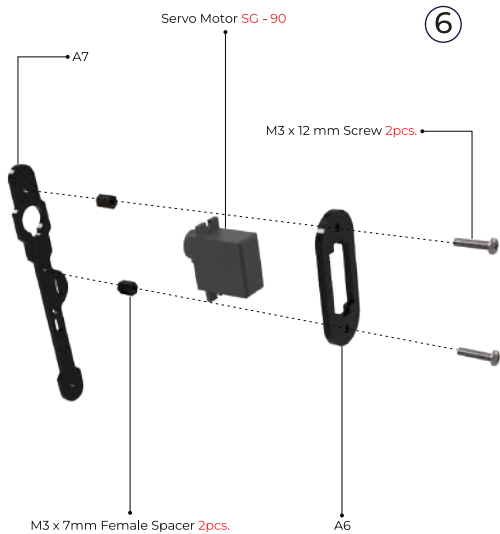
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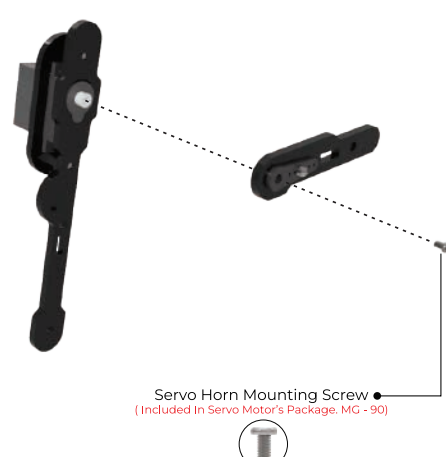
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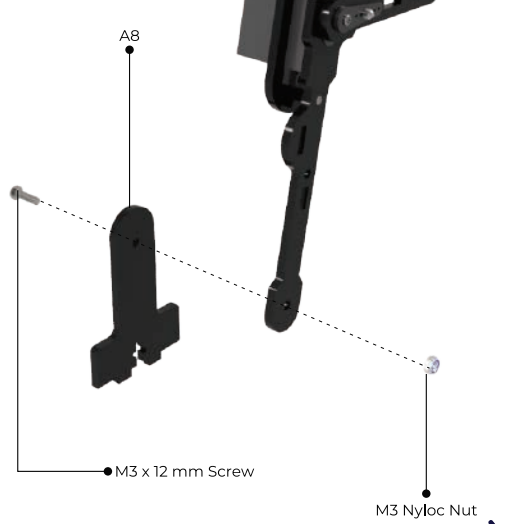
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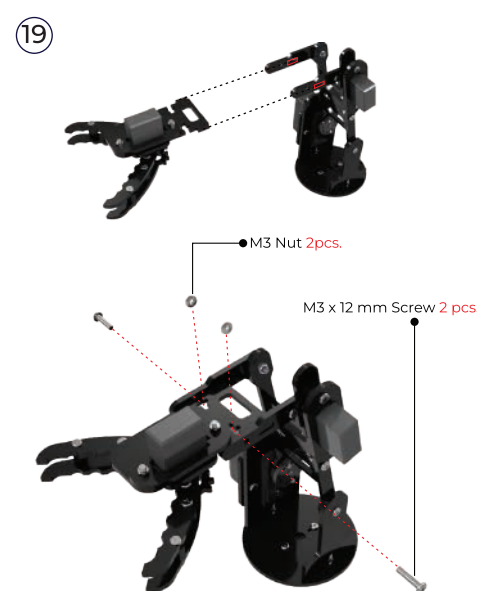
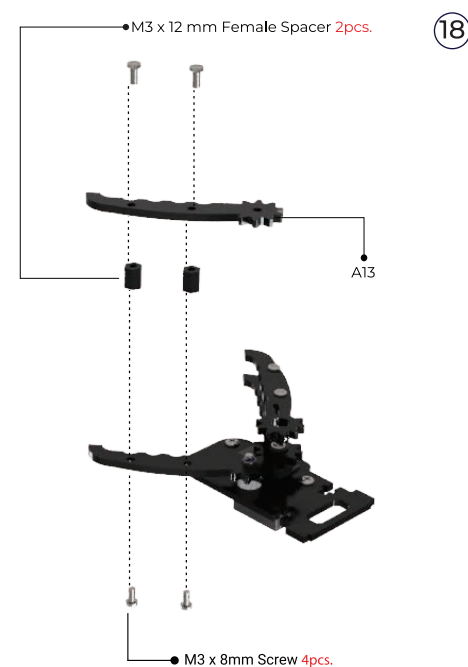
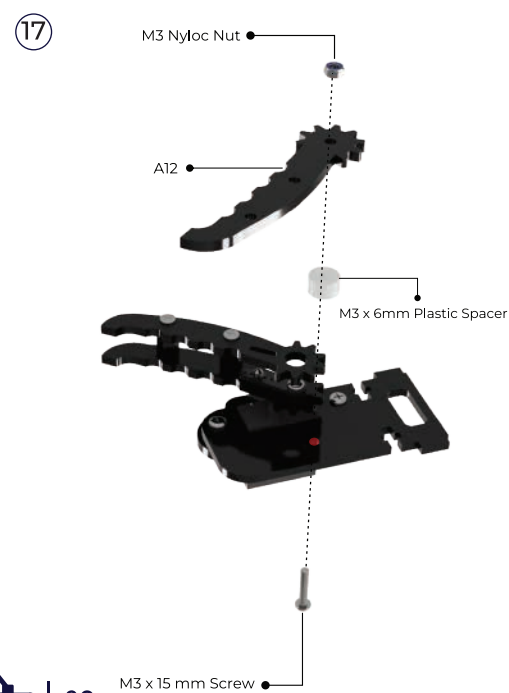
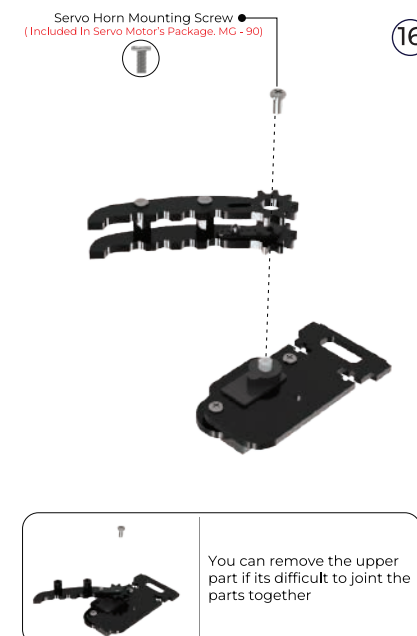
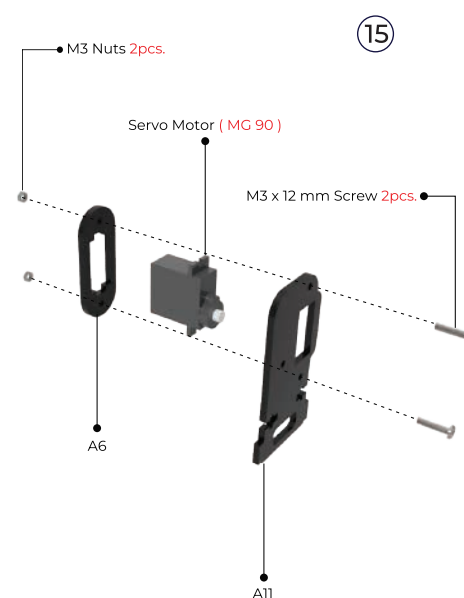
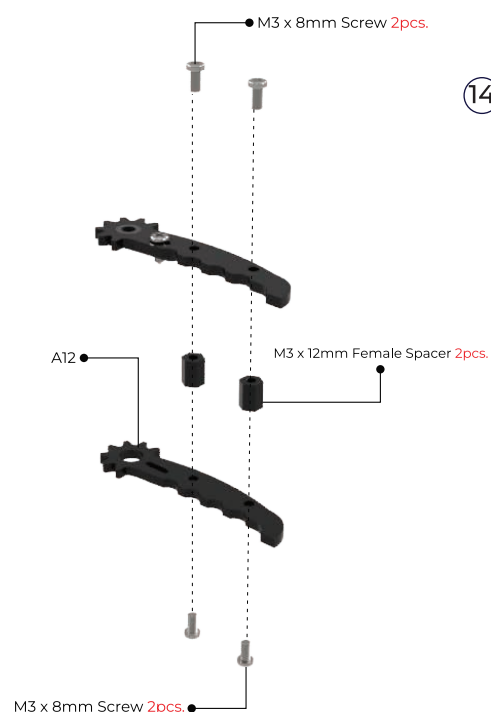
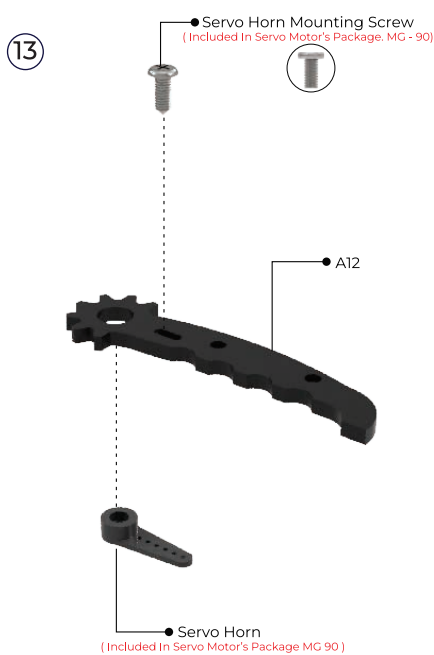
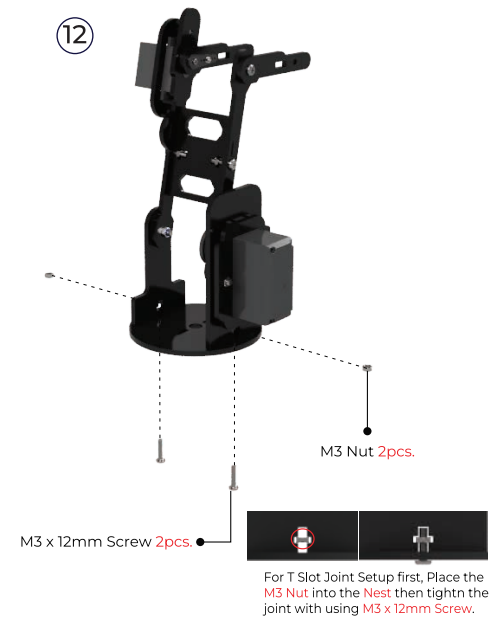
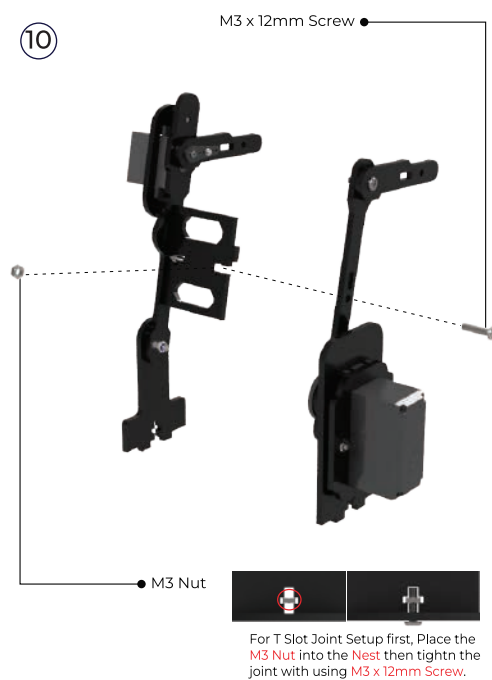


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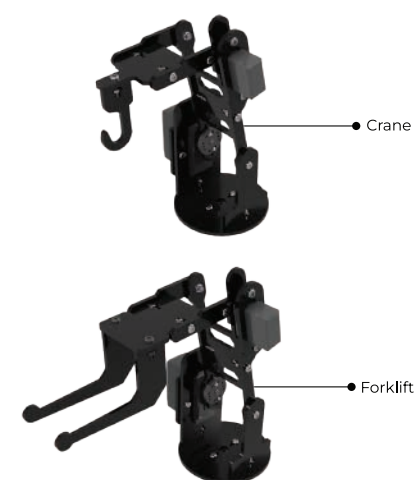
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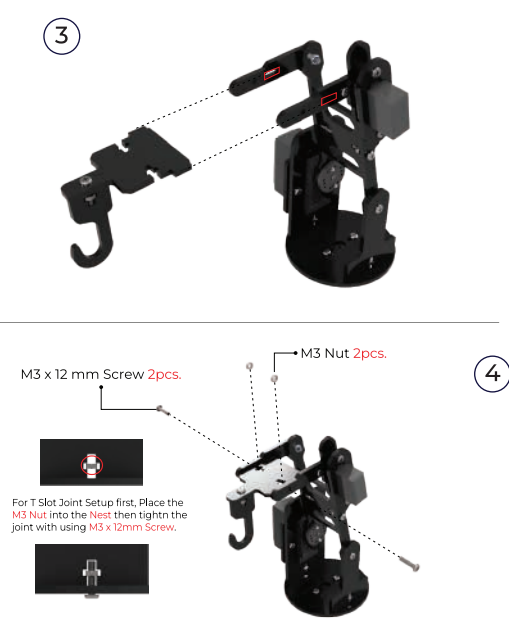
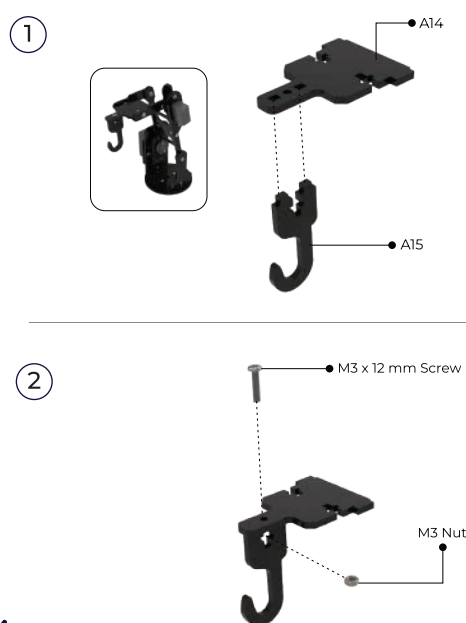


Interchangeable Parts

Robotic Arm is packed and ready to be built with two different heads. You can choose in between depending on your project needs.



Crane Assembly



Forklift Assembly

