Caesar's construction process

Installation of 3D designs

KANAAN Team



6 steps for installation

The first 3 steps:

1) Installing the robot chassis

2) Installing the battery pod and rear ultrasonic

3) Installation of processing controllers

4) Installing the servo pod and camera holder.

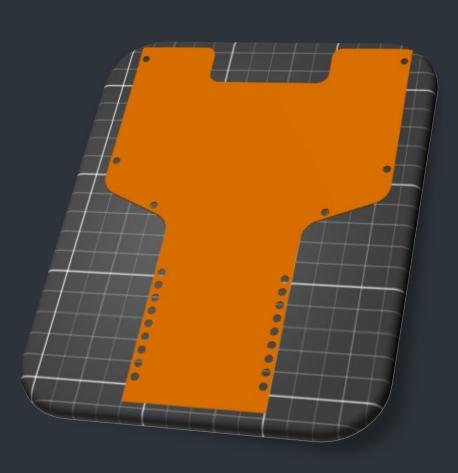
5) Steering installation

6) Installation of front ultrasonic incubators

1) Installing the robot chassis

Front piece

These two pieces handassemble to form the car's body for further designs and installations.





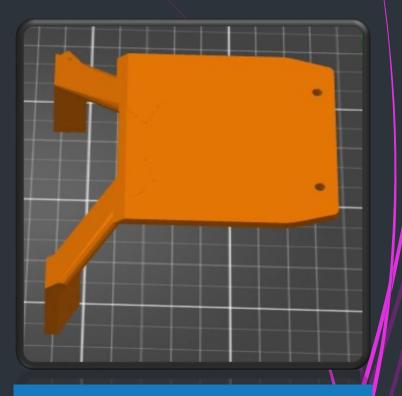


1) It is installed with screws and nuts on the rearmost part of the chassis

2-A) Installing the battery pod and rear ultrasonic



This is how it is installed

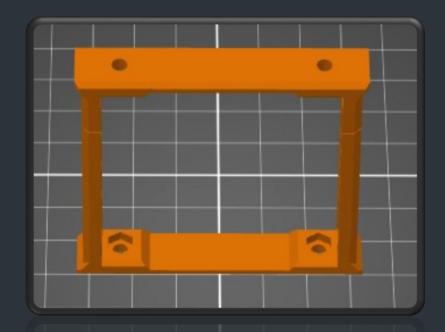


2) It is mounted with screws and nuts on the bracket shown in photo 1, with the battery on top.

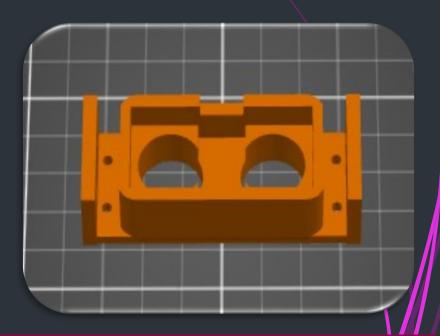




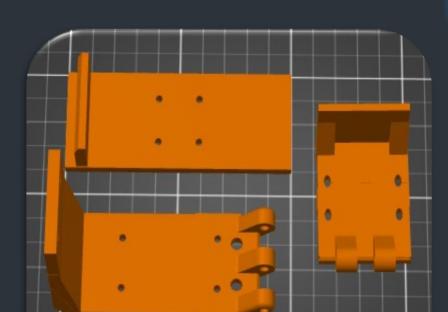
One-step installation



Battery pod holder



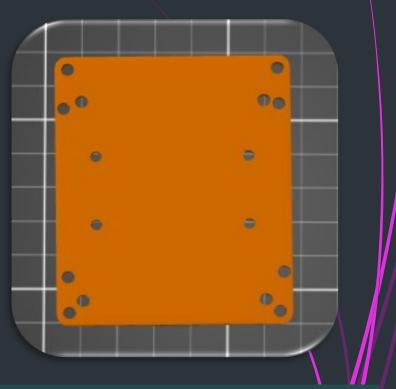
1) The sensor housing is secured with two screws to the carrier's vertical ribs.



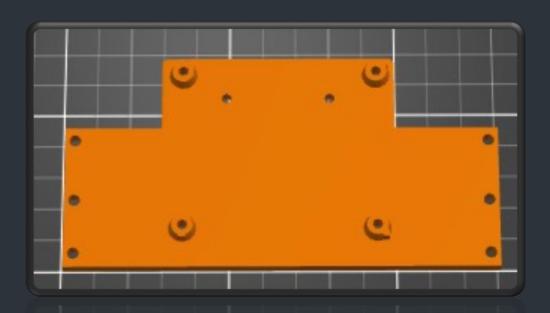
1) The two pieces are joined with screws and nuts, and their rectangular roof is silicon-glued to create a controller housing.

3-A) Installation of processing controllers

Installation in 3 steps



2) It is installed longitudinally inside the house to form a base for the ESP32

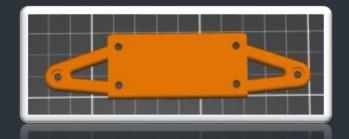


1) A base on which the Raspberry Pi is installed, a stand above it, and the controllers house above it

3-B) Installation of processing controllers

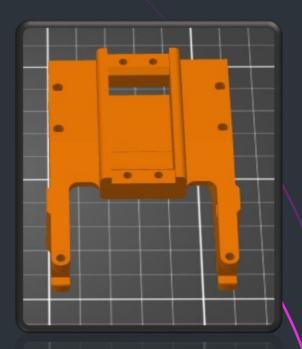
Integrating the Raspberry Pi into the controllers

4-A) Installing the servo pod and camera holder.

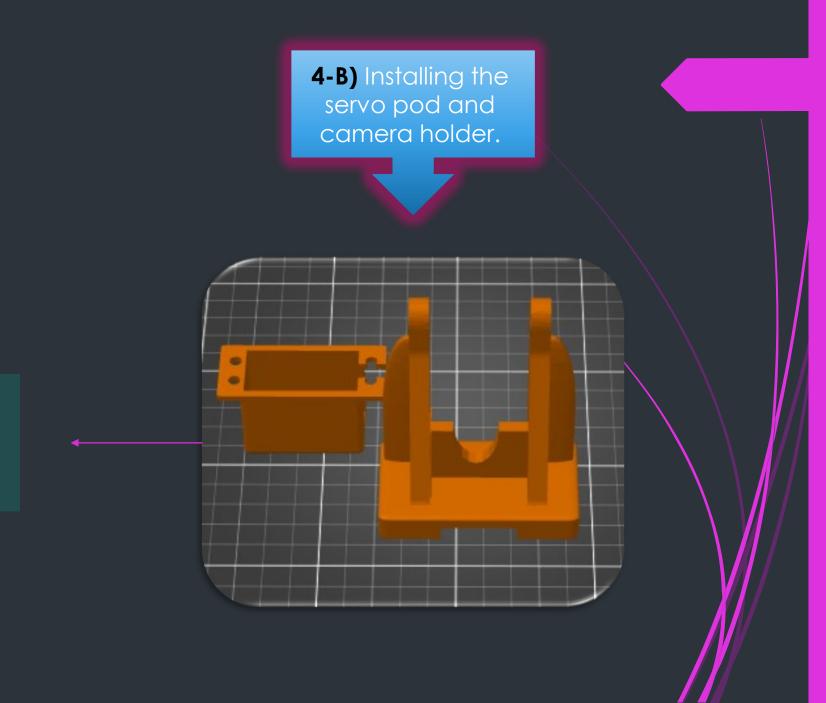


1) A piece of steering wheel mounted on top of the Chassis with 4 screws

The steering assembly is integrated with the servo housing

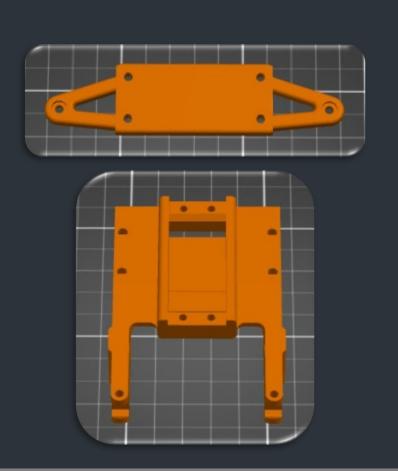


2) The servo assembly is mounted on top of the steering wheel using 4 screws and nuts



1) This cover is placed to cover the servo and the camera holder is glued over it

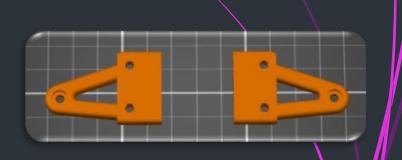
5-A) Steering installation Preparing the wheels for installing the steering wheels 1) The hexagonal head is inserted into 2) After assembly is complete, the wheel, and the cylindrical tail is they are covered with this piece connected to the steering wheel adapter in the accompanying image.



1) In the previous step, we installed the lower steering wheel under the servo pod

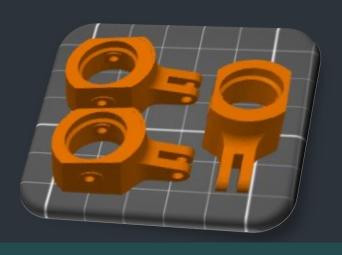


We've already detailed the lower steering wheel installation, so here's further clarification.



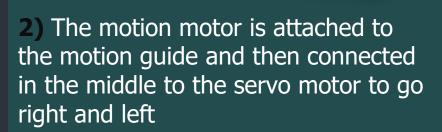
2) Each of them is installed with screws and nuts on the front of the servo housing

5-C) Steering installation



We previously explained about the motion vector, and now we explain its relationship with the motion engine

1) We mentioned it's attached to the handle using a hexagon-headed screw with a cap, secured top to bottom via a screw passing through the lower and upper string pieces, with an attached tongue for the movement engine

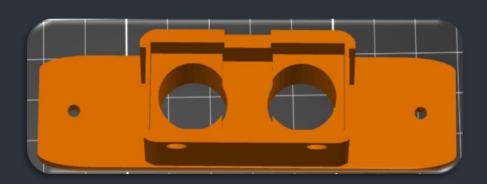




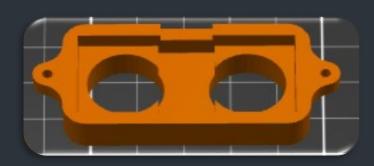
This picture shows the installation of the fifth step and part of the fourth



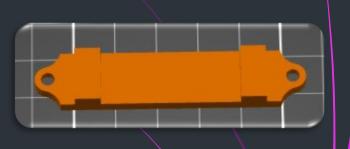
servo slider: It is connected from the servo at the bottom to the hole in the middle of the motor with a spring **6)** Installation of front ultrasonic incubators



1) The front ultrasonic incubator, on both ends of which the following two incubators are installed



2) Ultrasonic incubator right and left



3) Back covers for the ultrasonic incubator, right and left, for consistency

KANAAN TEAM

THANK YOU