## List of Electronic Components

2x Towerpro SG90 9G Micro Servo Motor

1x uman 5PCS Soil Moisture Sensor Kit Compatible with Raspberry pi Arduino Uno R3 Mega 2560 with 10PIN Female to Female Jump Cables 20PIN Male to Female DuPont Jump Cable Automatic Watering System KY70

1x Arduino Uno or Arduino Uno Clone or Variant

**1x** 3-6V Mini Micro Submersible Pumps DC Motor Pump Water Pump - 80-120L/H

## Assembling

- 1. Screw R-ML servo gear to each Servo.
- 2. Screw the Servo Gear Extension to the R-ML servo gears to the servo gear
- 3. Place the Servos in the "Mount to the Dovetail" piece (it sticks due to tolerance)
- 4. Place the Moisture Probe in the Moisture Probe Holder
- 5. Connect the Moisture Probe to the ship that comes with the package (by using the female-female jumper cables)
- 6. Keep the Moisture Probe in place by sliding in the Moisture Probe Holder Hinge Pin
- 7. Connect the Servo Gear Extension to the Moisture probe by using the Servo-Probe Holder Link
- 8. Slide in the Servo Gear Extension Hinge pin to keep the rotation but stop the translation
- 9. Slide in the Servo-Probe Holder Link Hinge Pin to keep the rotation but stop the translation
- 10.Both servos are connected in Parallel to the 5v and Grounded pin of the Arduino Uno/Clone/Variant
- 11. The Water Pump is connected to the digital pin #9 and a grounded pin
- 12. The Moisture Probe is connected to the Analog pin #0, 3v and grounded pin
- 13.(All the 5v are in parallel, likewise for the grounded pins)(There's only one use of the 3v pin)

- 14. The left and right Servo signal wire are connected to the digital pin 13 and 11, respectively
- 15. The Instructions in how to use the model is explained in the Module's code