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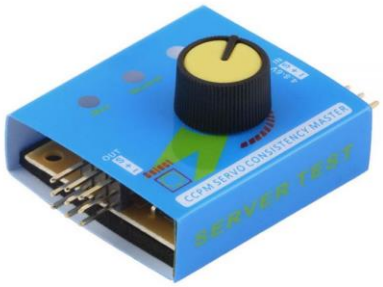
# Multi Servo Motor ESC Tester 3-Channel

## Introduction

The device also can be used as a signal generator for electric speed controller (ESC), then you can test your motor system without using a transmitter and receiver.
There are 3 modes to check servos or ESC:
**Manual mode:** turn the knob with different speed, check the reaction time.
**Neutral mode:** make the servo go back to the neutral point.



### Features

- Offer 3 modes to check servos or ESC
- The Manual Mode allows you to turn the knob to different speeds and check the reaction time
- The Neutral mode makes the servo go back to the neutral point
- The Automatic ''Window Wiper'' Mode makes the servo swing like a window wiper in the largest angle possible
- Connect up to 3 servos simultaneously
- Connect up to 3 ESCs to test and compare their reaction time respectively
- Built with LED indicators

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## Objective

- To control the servo motor using multi servo motor (ESC).

## Component

- Multi Servo Motor ESC Tester 3-Chanel
- Arduino UNO
- Servo Motor
- Wire

## Procedure

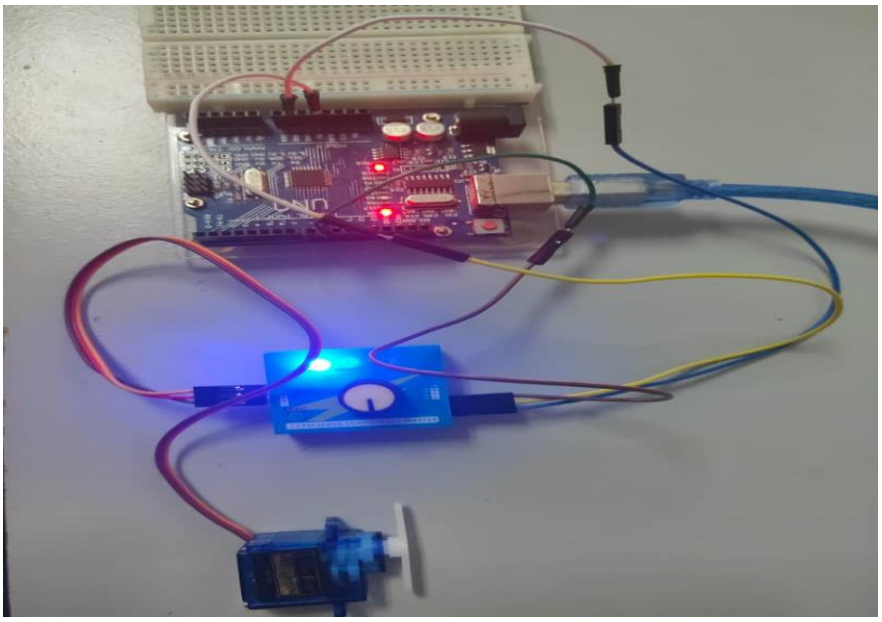
1. Connect the Arduino Uno and Multi Servo Motor (ESC) based on picture below.

    - Arduino connection to Multi Servo Motor

| Arduino | Multi Servo Motor ESC (in) |
|---|---|
| GND | — |
| 5V | + |
| Pin 9 | S |

    - Multi Servo Motor(ESC) connection to Motor Servo

| Servo Motor | Multi Servo Motor ESC (out) |
|---|---|
| yellow | S |
| Red | + |
| Brown | — |



2. Upload the coding to Arduino Uno

```
#include <Servo.h>
int pos = 0;    // variable to store the servo position
int servoPin= 9;
int servoDelay=25;
Servo myPointer;


void setup()
{
 //Serial.begin(9600);
 myPointer.attach(servoPin);  // attaches the servo on pin 9 to the servo
object
}
```

```
void loop() {

for (pos=0; pos<=180; pos=pos+1) {

 myPointer.write(pos);
 delay(servoDelay);

}

for (pos=180; pos>=0; pos=pos-1) {

 myPointer.write(pos);
 delay(servoDelay);
}
}
```