

555 IC Servo Tester

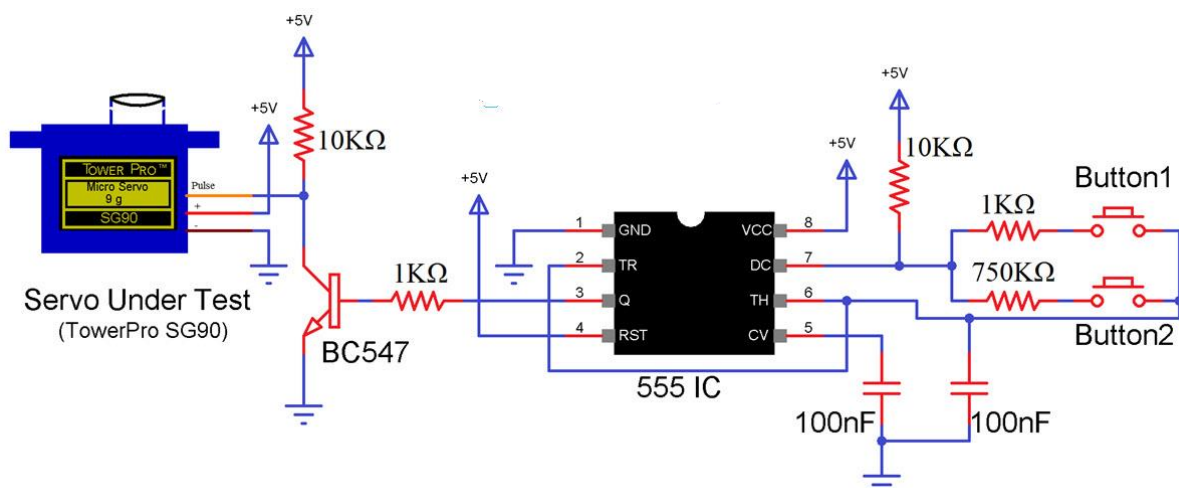
Introduction

When it comes to hobby projects and beginner electronics projects, Servo Motors are one of the important devices that we often use. Servo Motors are the main work horses in a variety of projects like Solar Tracker, Robotic Arm, Obstacle Avoiding Robot and many other small as well as complex projects.

When using Servo motors in your projects, you might have faced issues like the servo motor not working properly or doesn't provide complete (possible) rotation. In situations like these, a simple Servo Motor Tester Circuit will be helpful.

A Servo Motor Tester is a simple circuit designed specifically for testing the functionality of a Servo Motor. You can also use this circuit to test a newly bought Servo Motor to check if it is a faulty one.

Block Diagram



Component

- 555 Timer IC
- Servo Motor under Test (like SG90 or MG90S from TowerPro)
- Push Buttons X 2
- 10K Ω Resistors X 2
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- 750K Ω Resistor (* for info in circuit design)
- 100nF Capacitors X 2
- Perf Board or Breadboard

Advantages

1. Very cheap
2. Require minimum components
3. Easy to design
4. Programming not required

Conclusion

A simple but efficient Servo Motor Tester Circuit is designed in this project, which can be used to test the working small servo motors like TowerPro SG90 or TowerPro MG90S.