



Figure 9-13 The basic 555-timer configuration for a 50% duty cycle in astable mode

555 Astable Mode

A basic schematic for a 555 timer operating in an astable mode is shown in Figure 9-13. Once again, a 10k resistor is connected to the output for temperature stability. If the pulse may exceed the pin current of most μ controllers, a small loadspeaker can be used instead, in series with a 100-ohm resistor and a 100V capacitor.

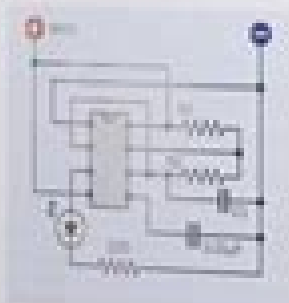


Figure 9-14 A 555 timer with variable components and a potentiometer instead of a fixed resistor network

Separate Control of High and Low Output Times

In Figure 9-13, a 555 timer has been set up around R2. The capacitor now charges only through R1, so the discharge has a much lower time constant than R2. It discharges through R2, so the discharge rate is slower. Consequently, the length of the output pulse can be adjusted with the value R1 only, while the length of the low output can be adjusted with the value of R2 only. duration of the high output can be seen by measuring the duration of the low output, it is not possible with the basic configuration of components in Figure 9-13.



Figure 9-15 In this circuit, a dual potentiometer and two 10k resistors and the 100nF value of the 555 timer are all independently adjustable with pin 5 at 5V resistance

555 Fifty Percent Astable Duty Cycle: 1

In Figure 9-16, the circuit enables a 50% duty cycle output duration of approximately 50% again 50% low. Initially, C1 has no charge (only the input of the timer low, and causing the output cycle with a high pulse from the Output pin).

Since in this demonstration circuit, the output illuminates an LED. At the same time, capacitor C1 is precharged to the output and charges C1. When the voltage on C1 reaches 2/3 of 5V, this is compared to the timer input, which causes the "high" cycle and initiates the output on the Output pin. This starts to take the charge from C1 through R1. When the voltage drops to 1/3 V, this initiates a new cycle. Because only one resistor is used to charge and discharge the capacitor, as may imagine that the charge and discharge times should be identical. However, a higher load on the output will probably pull down the output voltage to some extent, lengthening the charge time. Conversely, a load on the Output pin that has low resistance will probably leak at least some of the charge from the capacitor during the discharge cycle.

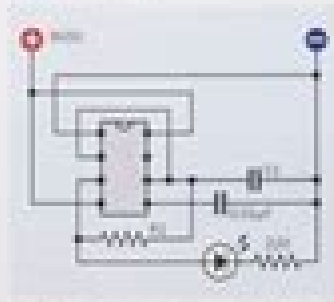


Figure 9-16 The configuration provides an approximately 50% on/off duty cycle at the output pin, although the potentiometer and resistors are fixed

555 Fifty Percent Astable Duty Cycle: 2

In Figure 9-17, a small modification of the basic astable circuit shown in Figure 9-14 provides an other way to enable a 50% duty cycle. Compare the two schematics, and you will see that just the connection between R1 and R2 has been altered so that C1 now charges only through R1, and dis-

charges only through R2. However, in this configuration the capacitor is discharging into a voltage divider created by the two resistors. Slight readjustment of the resistor values may be necessary before the duty cycle is precisely 50%.



Figure 9-17 In previous configuration to provide an adjustable duty cycle, only the potentiometer

Use of the 555 Control Pin

In Figure 9-18, a potentiometer and two series resistors allow a varying voltage to be applied to the Control Pin. This will lengthen or reduce both the charge and the discharge times of the timing capacitor. If values for the capacitor and the associated resistors are chosen to create a frequency of approximately 100Hz, a 100 potentiometer should demonstrate more than an octave of an difference through the loadspeaker. Other components can be substituted for experimentation creating possibilities for producing pulse width modulation. Alternatively, if a large capacitor is added between the Control pin and ground, only a second 100 timer, running slowly in an astable mode, applied to output to the Control pin, the charging and discharging of the capacitor will apply a smoothly rising and falling voltage. If the first 555 timer is running at an audio frequency, the output will have a "beating tone" effect.

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