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**Adjustable Timer Circuit with 555 IC**

Posted by [P. Marian](http://www.electroschematics.com/author/admin/) in [555](http://www.electroschematics.com/555-circuits/), [Audio](http://www.electroschematics.com/audio/) with 35 comments   
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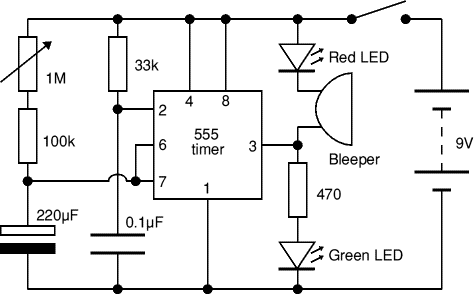
**this message might be for you!**

Hi, are you good, I mean really good at mastering the concepts of electronics? Have you ever developed your own circuits, tested and made them function as desired? Then you might want to [**read this**](http://www.electroschematics.com/participate/)!

The 555 adjustable timer circuit starts timing when switched on. The green LED lights to show that timing is in progress. When the time period is over the green LED turns OFF, the red LED turns ON and the beeper sounds. The time period is set by adjusting the variable resistor. It can be adjusted from 1 to 10 minutes (approximately) with the parts shown in the diagram. You can mark the times on a scale drawn on the box.

Please note that the range of time periods is only approximate. With perfect components the maximum time period should be 4½ minutes, but this is typically extended to about 10 minutes because the 220µF timing capacitor slowly leaks charge. This is a problem with all electrolytic capacitors, but some leak more than others. In addition the actual value of electrolytic capacitors can vary by as much as ±30% of their rated value.

**Adjustable 10 minutes timer schematic**

**[](http://www.electroschematics.com/wp-content/uploads/2010/08/adjustable-timer.gif)**

Source: [**http://www.kpsec.freeuk.com/projects/timer.htm**](http://www.kpsec.freeuk.com/projects/timer.htm)

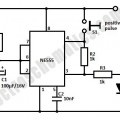
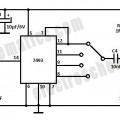
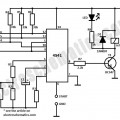
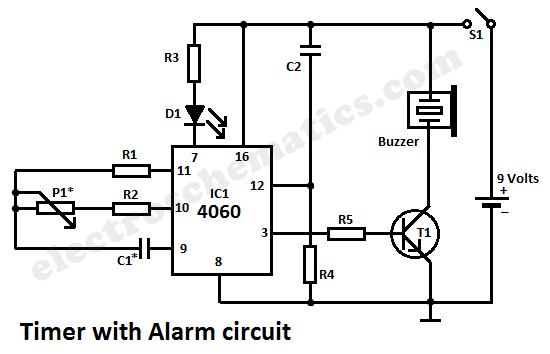
[**555 datasheet**](http://www.electroschematics.com/650/lm555-datasheet/)

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35 Responses to "Adjustable Timer Circuit with 555 IC"

1. http://1.gravatar.com/avatar/7d1cbc8d9ac86b66b83b6525077505e0?s=30&r=gNalini on [September 1, 2010 at 5:12 pm](http://www.electroschematics.com/5963/adjustable-timer-1-10-minute/#comment-15614)

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Sir, is this circuit is it 470 Ohms or K?

* + http://0.gravatar.com/avatar/ca0c8626be894628fa1ed6011a05e795?s=30&r=gMarius on [September 1, 2010 at 11:56 pm](http://www.electroschematics.com/5963/adjustable-timer-1-10-minute/#comment-15634)

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Is 470 Ω

1. http://1.gravatar.com/avatar/7d1cbc8d9ac86b66b83b6525077505e0?s=30&r=gnalini on [September 22, 2010 at 4:28 pm](http://www.electroschematics.com/5963/adjustable-timer-1-10-minute/#comment-16679)

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Sir,I made this circuit on bread board as well as on PCB but its not giving expected output. Problem is that the red LED is continuous on.I think there is problem with trigger.can you please explain how trigger is created here.Please reply as early as possible.

1. http://2.gravatar.com/avatar/2ba21559108126142eb0a0e8a53b3527?s=30&r=gstudent on [December 21, 2011 at 8:00 pm](http://www.electroschematics.com/5963/adjustable-timer-1-10-minute/#comment-168403)

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i agree with nalini  
i also faced the same problem……….

1. http://2.gravatar.com/avatar/572bb9fd9dfc95428781a327a37477d4?s=30&r=gKarl on [September 9, 2012 at 7:28 pm](http://www.electroschematics.com/5963/adjustable-timer-1-10-minute/#comment-257971)

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Hi, the connections to pin 2 and pins 6,7 are the wrong way around. Connect the 1M pot the 100k resistor and the 220uf capacitor to pin 2, connect the 33k resistor and the 0.1uf capacitor to pins 6 and 7.

* + http://2.gravatar.com/avatar/b309972d1405c8b6328048b782f300cc?s=30&r=gvijay on [November 16, 2014 at 5:39 am](http://www.electroschematics.com/5963/adjustable-timer-1-10-minute/#comment-1140156)

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why any mistake for this circuit

1. http://1.gravatar.com/avatar/a4148780823f62bc53f36a6711be770b?s=30&r=gBruce on [November 21, 2012 at 8:35 pm](http://www.electroschematics.com/5963/adjustable-timer-1-10-minute/#comment-259735)

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My parents had the “old style” door chimes that are no longer available. I would like to try making a 3 or 4 chime set the has a one second delay to each striker. Can anyone help?

1. http://1.gravatar.com/avatar/d11a7da24483338d842ddfd54a56e675?s=30&r=gKeiner on [December 14, 2012 at 1:03 pm](http://www.electroschematics.com/5963/adjustable-timer-1-10-minute/#comment-262964)

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Not sure what this point means:we started rensiignedg the timer; a task hover with mostly needed functionality is there;But to be honest the new timer design is a little annoying. The hover makes the tasks jump under the mouse and when you click on the task it no longer appears in the current task’ space which was handy. Could we have that back?

1. http://0.gravatar.com/avatar/6f829a0ae5381bd1a72bd42a7ee103da?s=30&r=gJesse on [June 23, 2014 at 9:03 pm](http://www.electroschematics.com/5963/adjustable-timer-1-10-minute/#comment-509165)

[log in to reply](http://www.electroschematics.com/wp-login.php?redirect_to=http%3A%2F%2Fwww.electroschematics.com%2F5963%2Fadjustable-timer-1-10-minute%2F)

This is so awesome! Just built this at work today. Works great.

* + http://2.gravatar.com/avatar/ef80e673039f22111cac7aae90f12041?s=30&r=gsyaza on [March 18, 2015 at 8:50 am](http://www.electroschematics.com/5963/adjustable-timer-1-10-minute/#comment-1588513)

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my green led the only that turned on once the switch is on, what happened?

* + http://2.gravatar.com/avatar/e4499c7f0bbf4145c0f97b22a7d66e86?s=30&r=gMayor S A Khan on [November 20, 2015 at 12:50 am](http://www.electroschematics.com/5963/adjustable-timer-1-10-minute/#comment-1866128)

[reply](http://www.electroschematics.com/5963/adjustable-timer-1-10-minute/?replytocom=509165#respond)

Pls, how So I go about the construction and design and finding it deficult to construct … I need urge help plzz

1. http://1.gravatar.com/avatar/d9b09073132b4e743ebf993b05760819?s=30&r=gAshok on [September 8, 2014 at 3:50 pm](http://www.electroschematics.com/5963/adjustable-timer-1-10-minute/#comment-758580)

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This circuit can be used as delay ON or delay OFF (TDR)

1. http://0.gravatar.com/avatar/083213472cb7b4d34963ff84597cfde1?s=30&r=gName \*jagdeep on [October 21, 2014 at 7:48 pm](http://www.electroschematics.com/5963/adjustable-timer-1-10-minute/#comment-956783)

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thank you. How to the capasitor discharg?

* + http://2.gravatar.com/avatar/50f7358586464e044dbc98a6d8268757?s=30&r=gJim Keith on [October 22, 2014 at 4:02 am](http://www.electroschematics.com/5963/adjustable-timer-1-10-minute/#comment-959201)

[reply](http://www.electroschematics.com/5963/adjustable-timer-1-10-minute/?replytocom=956783#respond)

Excellent question!  
C1 discharges into the 555 internal resistance when the switch is opened. The discharge may be slow –to speed it up, add a fixed resistor from the load side of the switch to common, and a diode across the 1M pot & 100K resistors (cathode up).

1. http://1.gravatar.com/avatar/a62df29cfa05bbdca32e822f16fb71ec?s=30&r=gsunnyboui on [December 11, 2014 at 11:48 am](http://www.electroschematics.com/5963/adjustable-timer-1-10-minute/#comment-1288863)

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Hi, I’m a engineer at British airways and we was working on something and saw this circuit, who ever made this circuit email me to claim your reward before use.

Thank you

1. http://1.gravatar.com/avatar/a7ea0d74f98aad1b2130519c9f2122e6?s=30&r=gRainbo on [January 2, 2015 at 2:28 pm](http://www.electroschematics.com/5963/adjustable-timer-1-10-minute/#comment-1409453)

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Great simple, little circuit which has many uses.

What size discharge resistor should i use assuming  
the circuit is switched off once week.  
I’m using as “delay on”  
Thanks for sharing!

1. http://0.gravatar.com/avatar/3952247dda3e215b81e22731709f20cc?s=30&r=gHarrizon on [March 4, 2015 at 6:45 am](http://www.electroschematics.com/5963/adjustable-timer-1-10-minute/#comment-1549223)

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where is the pin 5 attached? if i will add FET and transistor where would it be attached?? please

1. http://2.gravatar.com/avatar/ef80e673039f22111cac7aae90f12041?s=30&r=gsyaza on [March 17, 2015 at 8:43 pm](http://www.electroschematics.com/5963/adjustable-timer-1-10-minute/#comment-1586904)

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my green led the only that turned on once the switch is on, what happened?

1. http://1.gravatar.com/avatar/46977f9b695601a27c53dfa7d0de2dbc?s=30&r=gpekemon on [March 21, 2015 at 5:53 am](http://www.electroschematics.com/5963/adjustable-timer-1-10-minute/#comment-1597932)

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how about a time with 100nano sec.???

1. http://1.gravatar.com/avatar/17c6c916242cd8791a602bd862bc5223?s=30&r=gneelakandan on [April 17, 2015 at 2:47 pm](http://www.electroschematics.com/5963/adjustable-timer-1-10-minute/#comment-1648065)

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how a timer works on both ac and dc? how its operate, circuit explanation briefly please?

1. http://1.gravatar.com/avatar/7f91d5527295f71fd14a17dea07a922b?s=30&r=gmartin 66 on [May 15, 2015 at 10:14 pm](http://www.electroschematics.com/5963/adjustable-timer-1-10-minute/#comment-1685723)

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What adjustment would have to be made to this circuit to make it run from 24v dc?

* + http://2.gravatar.com/avatar/8e8ab4ea4beef89f946abd2f219b5da2?s=30&r=gElec-trix on [June 1, 2015 at 5:25 pm](http://www.electroschematics.com/5963/adjustable-timer-1-10-minute/#comment-1699429)

[reply](http://www.electroschematics.com/5963/adjustable-timer-1-10-minute/?replytocom=1685723#respond)

Martin 66 you can use a 24v DC/DC converter

1. http://2.gravatar.com/avatar/edb4fdfa8db7c979535ea1810141d898?s=30&r=gDAVETECH on [August 1, 2015 at 12:51 pm](http://www.electroschematics.com/5963/adjustable-timer-1-10-minute/#comment-1752909)

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Electronic is never a destination but a journey, @ Davetech

1. http://2.gravatar.com/avatar/ef6a88f1480cf7b11022c17c997fbc87?s=30&r=gsnsinha on [August 24, 2015 at 1:22 pm](http://www.electroschematics.com/5963/adjustable-timer-1-10-minute/#comment-1772585)

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I want on delay timar sir please simpal curcut digram

1. http://0.gravatar.com/avatar/9a36d145a0963176d2ca7cdd3a8c8eaf?s=30&r=gSunil on [August 25, 2015 at 7:18 am](http://www.electroschematics.com/5963/adjustable-timer-1-10-minute/#comment-1773153)

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Will it work on 5vdc even?

1. http://1.gravatar.com/avatar/d81eef7b71cf74613dadd234f83c8a17?s=30&r=gkibugujju john on [September 21, 2015 at 9:18 pm](http://www.electroschematics.com/5963/adjustable-timer-1-10-minute/#comment-1807277)

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hi am kibugujju john from nile vocational institute uganda thank you for your ccts because they really work for me and adjusted my minds from childish electronics

1. http://0.gravatar.com/avatar/02f0ce044daf5f1d007cea621f77567f?s=30&r=gJim on [October 19, 2015 at 1:01 pm](http://www.electroschematics.com/5963/adjustable-timer-1-10-minute/#comment-1843939)

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How hard could it be to update the picture here ? How many people will make this circuit and THEN read your fixes.. Try to update your web pages for this kind of critical data… 

1. http://1.gravatar.com/avatar/7f76540a4dade5c5d535bde433e1f76e?s=30&r=gOluwayemisi on [October 20, 2015 at 11:30 am](http://www.electroschematics.com/5963/adjustable-timer-1-10-minute/#comment-1845752)

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Can I use 555 timer for timing up to 20mins

* + http://2.gravatar.com/avatar/50f7358586464e044dbc98a6d8268757?s=30&r=gJim Keith on [October 21, 2015 at 3:31 pm](http://www.electroschematics.com/5963/adjustable-timer-1-10-minute/#comment-1847642)

[reply](http://www.electroschematics.com/5963/adjustable-timer-1-10-minute/?replytocom=1845752#respond)

@Oluwayemisi For long 555 time delay, check out this circuit:  
<http://www.electroschematics.com/8827/extended-period-555-on-pulse-timer/>

1. http://2.gravatar.com/avatar/8a648f7a1b74a7602bdcbcb6b7d55e0d?s=30&r=gEvan on [October 31, 2015 at 5:27 am](http://www.electroschematics.com/5963/adjustable-timer-1-10-minute/#comment-1856197)

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Where is pin 5

1. http://2.gravatar.com/avatar/50f7358586464e044dbc98a6d8268757?s=30&r=gJim Keith on [October 31, 2015 at 9:02 pm](http://www.electroschematics.com/5963/adjustable-timer-1-10-minute/#comment-1856603)

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Pin 5 generally connects to a 0.01 to 0.1uf bypass capacitor, but is often eliminated to reduce parts count. This capacitor can improve stability under some conditions.

1. http://0.gravatar.com/avatar/61264437d983108dbf6ff840ac66b182?s=30&r=gVasilis on [December 11, 2015 at 9:35 am](http://www.electroschematics.com/5963/adjustable-timer-1-10-minute/#comment-1875990)

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I need to press a switch that will trigger a relay for an adjustable output time (from ~0.1 sec to ~1 sec), to control a spot welder device. Can someone please suggest a circuit or modification of the one shown on this page?

1. http://2.gravatar.com/avatar/ed2dcf0c84a06d43f4bfbaebc422aebc?s=30&r=gKamran abbas on [January 11, 2016 at 9:22 pm](http://www.electroschematics.com/5963/adjustable-timer-1-10-minute/#comment-1891057)

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Hi How are you  
Sir  
Please tell me how can I make the 24 volt low battery disconnect circate

1. http://0.gravatar.com/avatar/904cea3d2868079aa99379e26af46ee5?s=30&r=gBhaskar on [January 13, 2016 at 1:32 pm](http://www.electroschematics.com/5963/adjustable-timer-1-10-minute/#comment-1891714)

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Is there any timer to switch off the boar starter after 10 minutes

1. http://1.gravatar.com/avatar/71d3c4404e5930a2e46e81650a628153?s=30&r=gMBost on [January 26, 2016 at 9:44 am](http://www.electroschematics.com/5963/adjustable-timer-1-10-minute/#comment-1895921)

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I am trying to make this circuit to control a relay, which will power heated mirrors in my car. Environment: 12-14.8 volts DC, momentary switch, circuit controls a relay feeding DC current to mirrors for 1-10 minutes adjustable. How would I go about this? What parts would I need? I would like to keep a LED illuminated only while the circuit powers the relay, no need for a buzzer. Thank you. I am great with electronics, but not so great at creating them from scratch. 

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