
Subject: 4 button footswitch

Posted by [Van](#) on Thu, 03 Jun 2010 18:22:40 GMT

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Sorry for my ignorance, I'm trying to understand the schematic Don emailed me.

What type are the original switches? DPST?

What is the voltage rating of the bulbs? Wattage?

The resistors are 330 ohm, correct?

I'm attempting to build one of these.

THANKS!!

Subject: Re: 4 button footswitch

Posted by [chicagobill](#) on Thu, 03 Jun 2010 20:00:49 GMT

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The switches are Single Pole Double Throw, SPDT. One contact (pole) that can be connected to two points (throws).

You can use one half of a double pole switch if you can't find the single pole type.

The bulbs are GE335 or equivalent. 28v, I'd have to look up the current rating. Edit: 0.04 amps

The resistors are 330 ohms 1/2 watt.

Subject: Re: 4 button footswitch

Posted by [Van](#) on Thu, 03 Jun 2010 20:08:36 GMT

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Thank you!

SPDT now makes sense to me. Grounding turns off the effect.

I wonder if I could just use LED indicators instead of the light up windows for the bulbs.
I'll have to see if there are 28V LEDs out there.

Subject: Re: 4 button footswitch

Posted by [chicagobill](#) on Thu, 03 Jun 2010 20:23:20 GMT

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The effect is turned off when the correct pin is grounded. The light turns on when the pin is open

and the light is grounded.

The original foot switch had little backlit name labels for each effect. The bulbs were turned on slightly through the 300 ohm resistor so that you could read the label. When the effect was turned on the bulb lit up to full brightness.

If you want to use leds instead of the bulbs you just need to use a series resistor to limit the current through the led. You can also eliminate the 330 ohm resistors.

Subject: Re: 4 button footswitch
Posted by [Van](#) on Thu, 03 Jun 2010 20:27:33 GMT
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It's making more sense to me now!
THANKS!

Subject: Re: 4 button footswitch
Posted by [Van](#) on Fri, 04 Jun 2010 00:24:51 GMT
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Well, went out and bought all the parts necessary including a new XLR receptacle for the amp.
Spent almost \$90.
That added up quickly!

They sold me the wrong XLR male for the cable, so back tomorrow I go!

Subject: Re: 4 button footswitch
Posted by [Van](#) on Sat, 05 Jun 2010 00:41:54 GMT
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Mission accomplished.....almost.

Been to the parts store twice now, and both times I forgot to pick up the 1N5359A Diode! DOH!
So, I'll have to wait until monday to see if it works.
Radio Shack doesn't have it.
As far as I've been able to find out, it's a Zeener Diode that's a 24V regulator. (?)

Still on the work bench.

Subject: Re: 4 button footswitch

Posted by [Van](#) on Sat, 05 Jun 2010 17:51:40 GMT

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YAY! I found the diode at Fry's this morning.

The foot switch works GREAT!

My K 250-4 is now complete!

Subject: Re: 4 button footswitch

Posted by [chicagobill](#) on Sat, 05 Jun 2010 18:05:45 GMT

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Great job! Now you can rock like it's 1972 again.

I'd probably prefer having the cable for the footswitch on the backside of the box, out of the way. Maybe you have a reason for the front mount.

Anyway great job.

Subject: Re: 4 button footswitch

Posted by [Van](#) on Sat, 05 Jun 2010 18:26:09 GMT

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If someone prefers the other side, the base can be flipped around. 4 screws.

Subject: Re: 4 button footswitch

Posted by [stevem](#) on Mon, 07 Jun 2010 10:05:24 GMT

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nice looking rig, and good job on the foot switch fab!

Subject: Re: 4 button footswitch

Posted by [Van](#) on Mon, 07 Jun 2010 13:34:56 GMT

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Thanks!

Subject: Re: 4 button footwsitch
Posted by [Jc](#) on Mon, 07 Jun 2010 19:04:53 GMT
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HEY!

That is nice work ~ And a Kool looking rig - jc

Subject: Re: 4 button footwsitch
Posted by [Van](#) on Mon, 07 Jun 2010 19:40:29 GMT
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Thanks!
