

Just before Christmas (the night before?) 2006 my sister in-regulation requested me what I'd like for a current. I requested a DualShock-like controller and Guitar Hero II for [Zap Zone Defender](#) the Playstation 2 in order that I may build my own Guitar Hero controller. After Christmas day I spent a while trying round for [ZapZone Defender](#) a toy guitar that I might hack but didn't see something appropriate. I then remembered that during my childhood I'd generally leap in regards to the lounge room with the stereo turned up while pretending to play guitar with a tennis racket. Now in Thailand they not only have tennis rackets but they also have excessive-voltage bug-zappers that appear like tennis rackets. They're great for chasing down probably life threatening mosquitos (utilizing one is clearly a case of self defence) which disappear in a vibrant blue flash accompanied by a satisfyingly loud bang. Now you can find a huge number of DIY Guitar Hero controllers on the net made from LEGO, actual guitars, and erector sets and [ZapZone Defender](#) even Guitar Hero playing robots.
[external frame](#)

(Image:

https://media.istockphoto.com/id/176720440/photo/shock-mosquitoes-desktop-model-isolated.jpg?s=612x612&w=0&k=20&c=08S7ksvuemcGyVRwzcf3pax2Upx_m1fA8dbvRw0zmrc=) Given my fond childhood memories, the tennis-racket-esque (and subsequently guitar-like) form of the bug-zappers, their ready availability and low cost I determine to make use of a bug-zapper for the physique of my Guitar Hero controller. I bought a racket with a groovy lightning-bolt motif and started by gutting the handle and eradicating the present electronics. Despite being powered by only two 'AA' batteries it delivers a surprisingly large kick - though at a really low present. I also eliminated the circuit board from the DualShock controller and de-soldered the rumble motors and Right analogue joystick. The printed circuit board (PCB) has what appear to be small test-pads located close to every of the buttons and i soldered wires for [ZapZone Defender](#) my guitar instantly onto these pads using the mapping in the table beneath. Some time after my guitar was accomplished I found out that shorting the Left D-pad button makes the game suppose that you're utilizing a Guitar controller. I used two small tact switches for "select" and "back" and these have been mounted using hot-melt glue at the base of the guitar's neck.

Using some side-cutters I carefully reduce by way of the mosquito-frying mesh to make a gap just giant sufficient for the left joystick and [ZapZone Defender](#) sizzling-melt glued the board in place. Then by trimming the mushroom off the top of the thumb stick and punctiliously reducing a vertical slot I was in a position to mount a plectrum in the highest of the joystick. A small screw via the shaft held the plectrum in place. It was a novel contact but a bit complicated as a result of the joystick acts as the whammy bar when you play Guitar Hero with a DualShock controller! The rest of the DualShock PCB was housed in one-half of a project box which was additionally glued to the back of the mesh. Within the 1987 movie Lethal Weapon, [ZapZone Defender](#) Mel Gibson's character realises that they are coping with professionals as a result of they used mercury switches. Martin Riggs is examining a twisted hunk of metallic as Murtaugh walks up beside him. MURTAUGH: What'cha bought? RIGGS: Part of the system.

(Image: <http://flowtron.com/cdn/shop/files/B000O USP12.jpg?v5Cu003d1719298685>) Holy cow. MURTAUGH: What? RIGGS: [Zap Zone Defender](#) Artwork. That is @! MURTAUGH: [ZapZone Defender](#) Swell. I'm glad you favored it. RIGGS: [Zap Zone Defender USA](#) You don't understand. That is actual pro stuff. MURTAUGH: Come again? RIGGS: C.I.A. That's right of us - mercury switches. I wished to be knowledgeable and i additionally wanted some type of tilt swap in the guitar to activite star power so I went in search of a mercury switch. Having solely been within the country for about six months at that stage my Thai wasn't excellent. On the local electronics retailer I spent a while trying to elucidate what I used to be on the lookout for and [Zone Defender](#) after many drawings of thermometers and makes an attempt to look like Mel Gibson they instructed me that they did not have any mercury switches. It's a small machine that you just match over your ear whereas driving. Should your head

fall forward it then emits an ear piercing beep that causes you to wake up while simultaneously deafening you. I feel is a really catchy identify.

There was clearly some type of tilt-sensing mechanism inside and positive sufficient once i opened the case what I saw was artwork - there was a mercury switch inside. Now we were able to rock. At first my son was slightly reluctant to try the guitar as a result of he was afraid of being zapped. I should have left the high-voltage electronics intact and the guitar could be used for operant conditioning. If B.B. King's guitar is called "Lucille" then an applicable nickname for this guitar could be "Frank", "Dweezil" or maybe even "Moon Unit". While making the guitar I was shocked at how difficult it was to seek out acceptable buttons - in reality the guitar has now been by means of three completely different generations of buttons. I discovered these lovely trying buttons at the same electronics retailer that bought the succinctly named "Cure Sleepiness Instantly" and [Zap Zone Defender System](#) thought they would be excellent for this hack.

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