

## Electronic Fly Swatter and Defense Modifications



DC charge kills bugs instantly indoors or outdoors. Durable poly construction. Uses two D batteries (sold separately.)

- Convenient on/off switch
- 19-1/8" long, 7-1/4" wide
- Indoor/outdoor use, great for camping

ITEM 40122-5VGA ---- cost ~~\$7.99~~ on sale sometimes for **\$2.99** Go to <http://www.harborfreight.com/> and enter the item number.

Adding Aluminum foil tape around the rim can make it into a dual purpose unit. It can then be used as a primitive defense item. It runs at 1,500 Volts DC with enough current such that it makes one move away from it when in constant contact. The shock does not compare to the 100,000 personal protection 9 volt hand held zapper devices. It will not go through most clothing unless it is wet. It works only on skin parts of the body that get in contact with the 1/8 inch gap around the rim. If one holds the button down then touches it to a person on the skin, the zap (spark) is defiantly uncomfortable and stings for 3-10 minutes. If one tries to hold onto it, the current flow is sufficient so that one will defiantly let go. Of course all of the cautions apply that would apply to other hand held zappers. Don't use it on or around a person with a pace maker. Don't use around or on children, the weak, or the feeble, etc.

To make this modification: Take the handle apart and soldered a thin wire to the two high voltage leads coming from the PC board that go into the swatter grid. The wire is run out each side of the handle with the top of the handle grip screwed back on. Cut a 27" long strip of 1" wide "Aluminum Foil tape" or use regular aluminum foil and spray rubber cement type glue on one side. Next wrap this around centered on the outer rim from where the yellow plastic meets the black plastic of the handle. Fold over each side so that the foil is glued to each side of the swatter. Next take some black electrical tape and tape it to some Formica and using a ruler and a sharp knife cut a 1/8" strip. Tape this strip around the perimeter of the swatter centered from top to bottom. Now carefully cut with a sharp knife along both edges of the tape. Remove both layers (black an aluminum tape). This now produces a 1/8 inch gap that becomes the zapper point of contact. Bend and scotch tape down the wires from the inside of the handle so that the wires lay on top of the tinfoil for each side (see picture above). Now if one touches the one side or the other there is no danger or flow. Only if both side of this gap come in contact with skin will there be a painful spark.