

Re: Function of component in flash tube trigger circuit?

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- *From:* Sam Goldwasser <[sam@xxxxxxxxxxxxxxxxxxxxxx](mailto:sam@xxxxxxxxxxxxxxxxxxxxxx)>
  - *Date:* 29 Apr 2008 19:18:23 -0400
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"N\_Cook" <[diverse@xxxxxxxxxx](mailto:diverse@xxxxxxxxxx)> writes:

James Sweet <[jamessweet@xxxxxxxxxx](mailto:jamessweet@xxxxxxxxxx)> wrote in message  
[news:RcIRj.3347\\$WS1.1332@xxxxxxxxxx](mailto:news:RcIRj.3347$WS1.1332@xxxxxxxxxx)

I was always told that the clap of thunder was due to air  
refilling the  
gap  
after being punched through by the lightening plasma arc.  
That cannot be the reason for the pop when such xenon tubes  
fire as

there

is  
no air inside them , why the pop?

"Air" is a mixture of gasses, Xenon tubes are filled with Xenon gas, so no  
real difference from that perspective, both the earth and the flash tube  
have an atmosphere of gas.

I thought the sound was the shockwave created by the rapidly heated column  
of gas expanding, haven't really researched it though.

surely there is only microbar of pressure in a xenon tube?  
so nearer a vacuum "in space no one can hear you scream"

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Actually, no. It may be near 1/2 atm.

--- sam | Sci.Electronics.Repair FAQ: <http://www.repairfaq.org/Repair> | Main Table of Contents: <http://www.repairfaq.org/REPAIR/> +Lasers | Sam's Laser FAQ: <http://www.repairfaq.org/sam/lasersam.htm> | Mirror Sites: [http://www.repairfaq.org/REPAIR/F\\_mirror.html](http://www.repairfaq.org/REPAIR/F_mirror.html)

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