

Re: Function of component in flash tube trigger circuit?

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- *From:* "James Sweet" <jamessweet@xxxxxxxxxxx>
 - *Date:* Tue, 29 Apr 2008 18:18:58 GMT
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"N_Cook" <diverse@xxxxxxxxxxx> wrote in message
[news:fv7n81\\$6hd\\$1@xx](mailto:news:fv7n81$6hd$1@xx)

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

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.

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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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<http://home.graffiti.net/diverse:graffiti.net/>

According to an article I found, the pressure ranges from .01 to .1 Bar,
that's a LOT of gas compared to the vacuum of space.

You can get audible shockwaves in Nixie tubes by driving them multiplexed.
Those have a pressure of only a few mm.