

Electrical Detonator manufacture

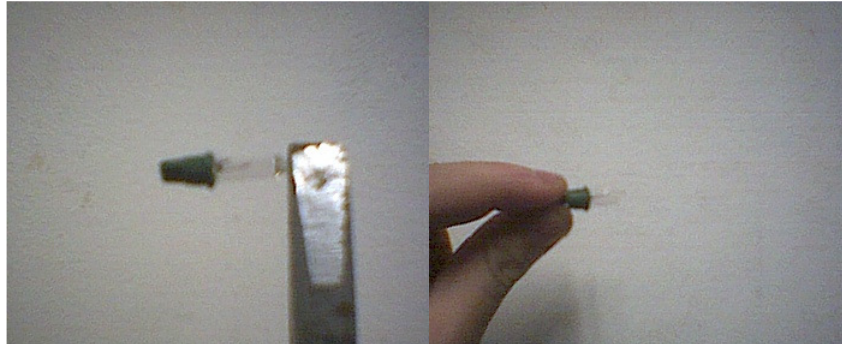
What you need:



- As much christmas-lights as you will be doing detonations
(I presented 5 here, for the sake of clarity)
- Xmas light sockets, with a few cm of wire on them
(you'll need to replace these with big detonations)
- A straw that fits tight around your xmas-light (~6mm)
- A primary (I used Acetone Peroxide; don't use HMTD !!)

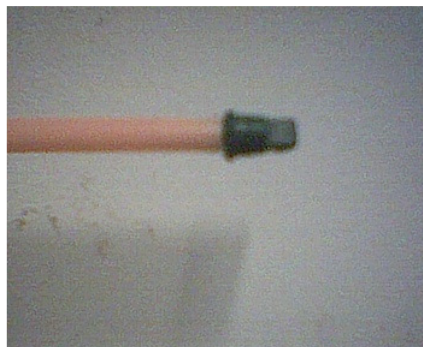
Let's begin:

First you need to gently break open the little xmas-light at the top.



This may prove to be tricky at first, but you'll get the hang of it after ruining a few.

Then you push the xmas-light with the top broken open in the straw.



After the light is secured in the straw, (you may use glue, it'll ensure waterproof-ness) you pour some black powder in the other side of the straw, covering the lights filament.



Above the black powder, you place your primary. Quantity should be experimented with, depending on your charge specifications. If you choose to press your primary for increased performance, make sure you added enough BP, still covering the entire bridge wire of the bulb.



Once you added your required amount of primary, followed by a little ball of tissue paper. Then you can fold over the rest of the straw, and secure it with some tape.



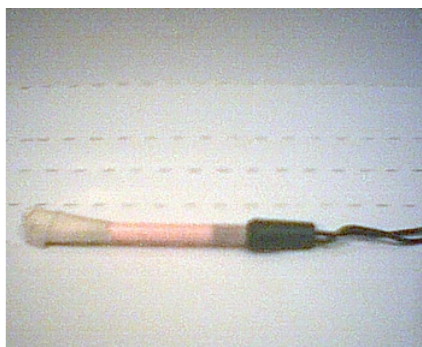
If you want totally waterproof your detonators (underwater storage or deployment) you can try dipping them in in some sort of laquer, completely covering them.

!!!! I strongly discourage the use and storage of ANY organic peroxide !!!!

Why not use HMTD ?

Because HMTD could react with the lights bridge wire, resulting in auto-detonation.

Finished product:



Doesn't it look neat?

Result of detonation, pushed in the half frozen ground to the socket:



Crater is about as deep as the detonator itself (maybe a bit deeper) and 20 cm diameter.

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