Toggle PTT

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To: TECH@WW

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Hello All,

Subject: Handsfree ptt-switch for mobile use.

Using a vox is not nice in a car because it goes transmitting when it hears sounds.

Keeping a ptt switch pressed while driving & steearing is also unsafe.

That’s why I decided to make a large toggle switch on the dashboard with a Red 5mm flashing PTT led & a Mic gain control.

Construction of toggle switch

I made from double clad PCB about 3 x 6 cm & a microswitch as a nice toggle switch. I did solder a small hinge to the PCB & tinned box. And I mounted the microswitch in the metalbox & only the handle pin is pushed when the PCB piece is pushed. I did painted it red hi. So I have a nice big easy to push PTT switch.

Circuit diagram

I have made a small metalbox with a large pushbutton (S1) on it. And a big bright 5mm led.

The pushbutton is connected to a toggle circuit.

The output of the toggle circuit is connected to a watchdog circuit which drives a PTT transistor to switch the tranceiver, & also the LED flasher circuit.

Use a 5 mm high bright led so you see it very easy flashing when transmitting without having to look at the transceiver.

So push S1 & PTT is on for maximal 3-5 minutes & the led flashes. After 3-5 minutes the watchdog switches off the mobile set from transmitting. (use 100-220uF).

So if something happens your rig is not any more transmitting a carrier for hours.

Mount the small box some where on the dashboard next to the steering wheel so you can easy see the led & push the S1 Switch.

Further I mounted a small electreet at the sunscreen for getting the sound.

I also mounted a small mic-preamp with a gain potentiometer in the ptt switchbox so I can adjust the audio level when driving.
PTT toggleswitch
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100n - 1M
10106 or 4093 etc.

Watchdog & led flasher
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Mic-amplifier
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2 wire electret.

Gain = about 10x
I did not wrote the pin numbers of the ic's to it yet.
73's from PA3BNX@PI8SHB.

Y don't U send an interesting bul?
73 de G8MNY @ GB7CIP