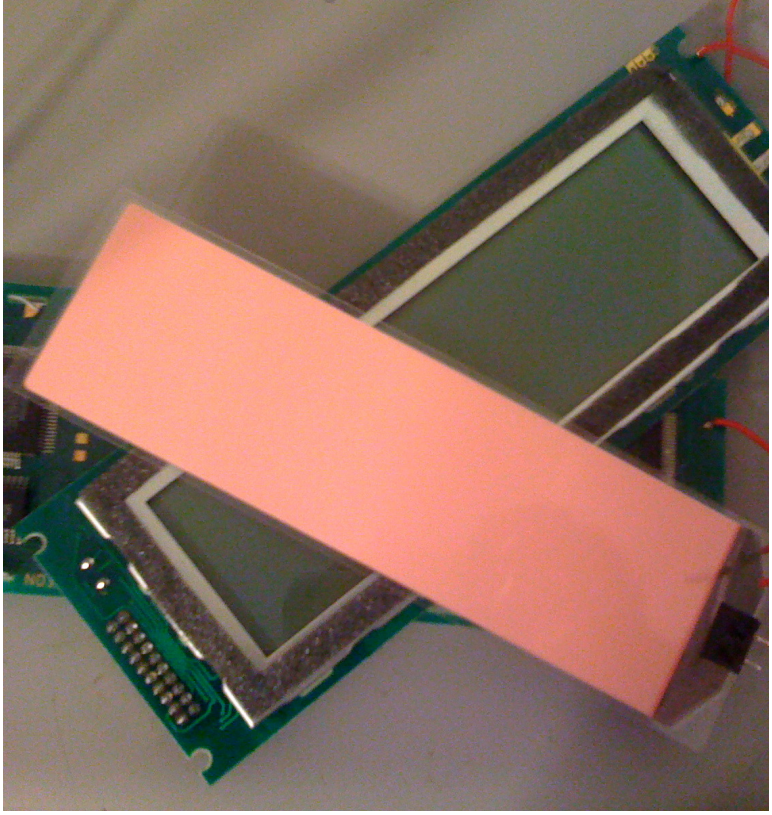


LCD Backlight for TH9X Transmitter

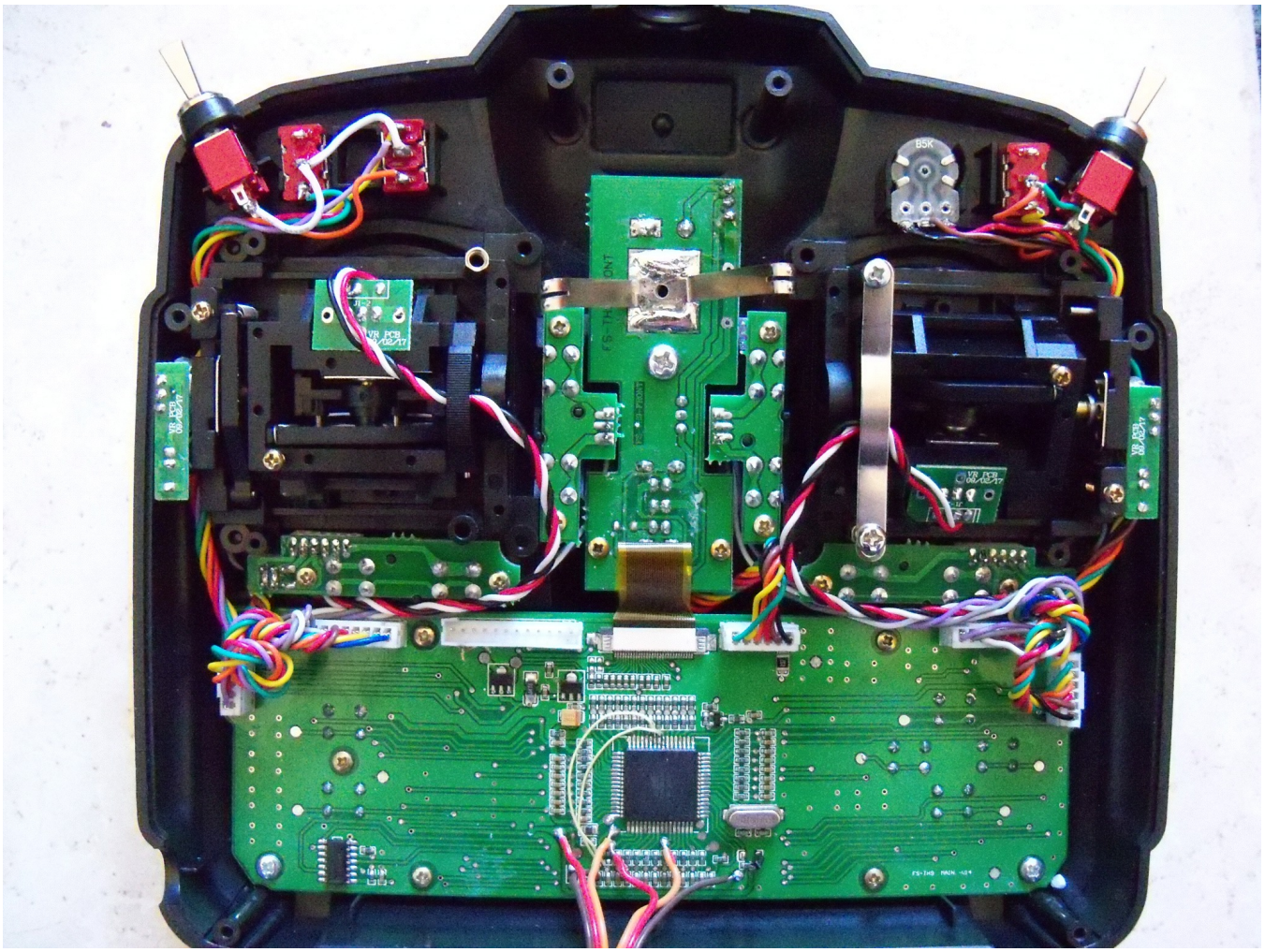
This is an easy modification to install a backlight into your transmitter. The EL panel can be scavenged from a surplus or even new graphics or alphanumeric unit. I had a few in my junk box, so I was lucky.

Here is an inexpensive source for the EL backlight high voltage. Mine was less than $10 with shipping. Here is the URL.

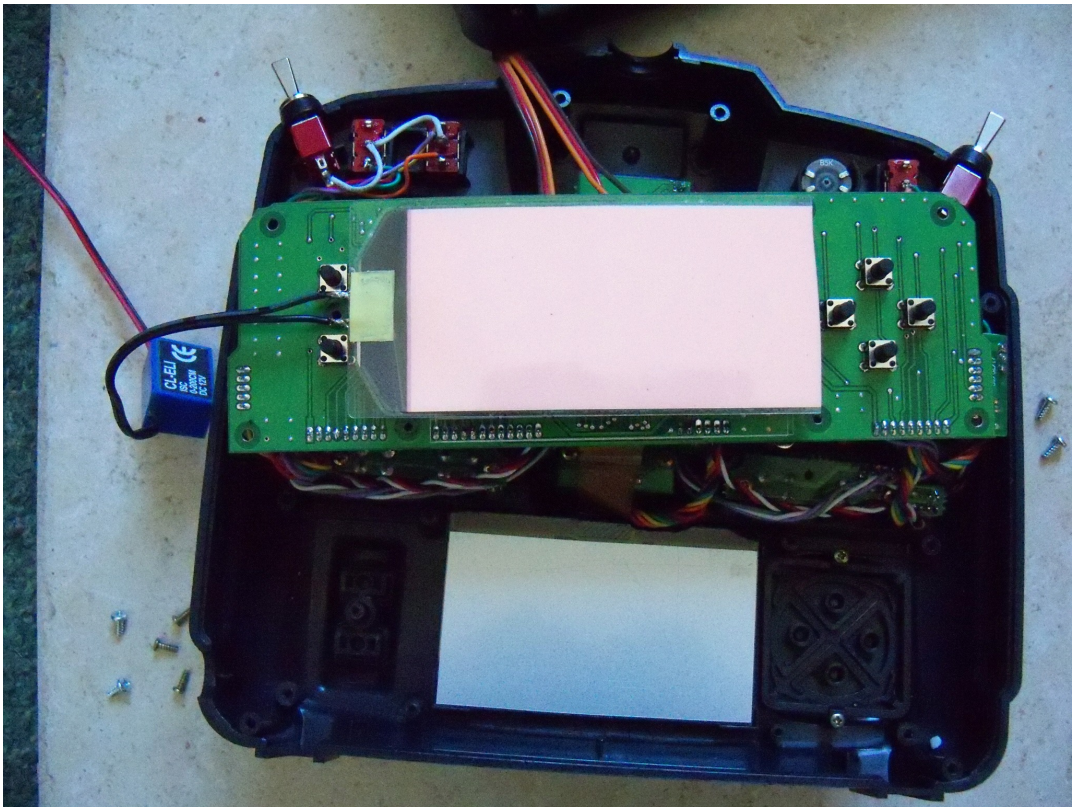
http://www.coolight.com/product-p/cl-sic-12v-35-50ft.htm

Digikey has the FET's to turn the backlight on/off with software. Here is the URL.

http://search.digikey.com/scripts/DkSearch/dksus.dll?Detail&name=BS170_D27ZCT-ND

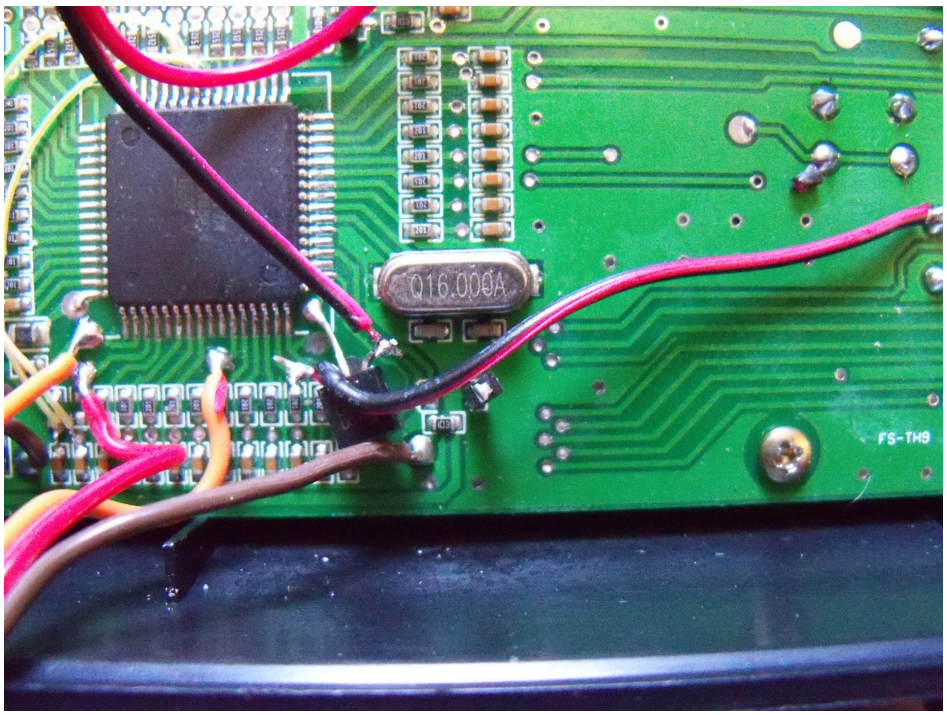


Open the TX by removing the 6 screws on the back and unplugging the front section connector,



The LCD display board has 9 screws to remove. Pay attention to the screws because there are two different sizes !
Bend the board up and place the EL panel with 2wires onto the black foam with the light side up.
You may trim the panel to size with scissors. You don't want to block the mounting hole or the switch buttons.

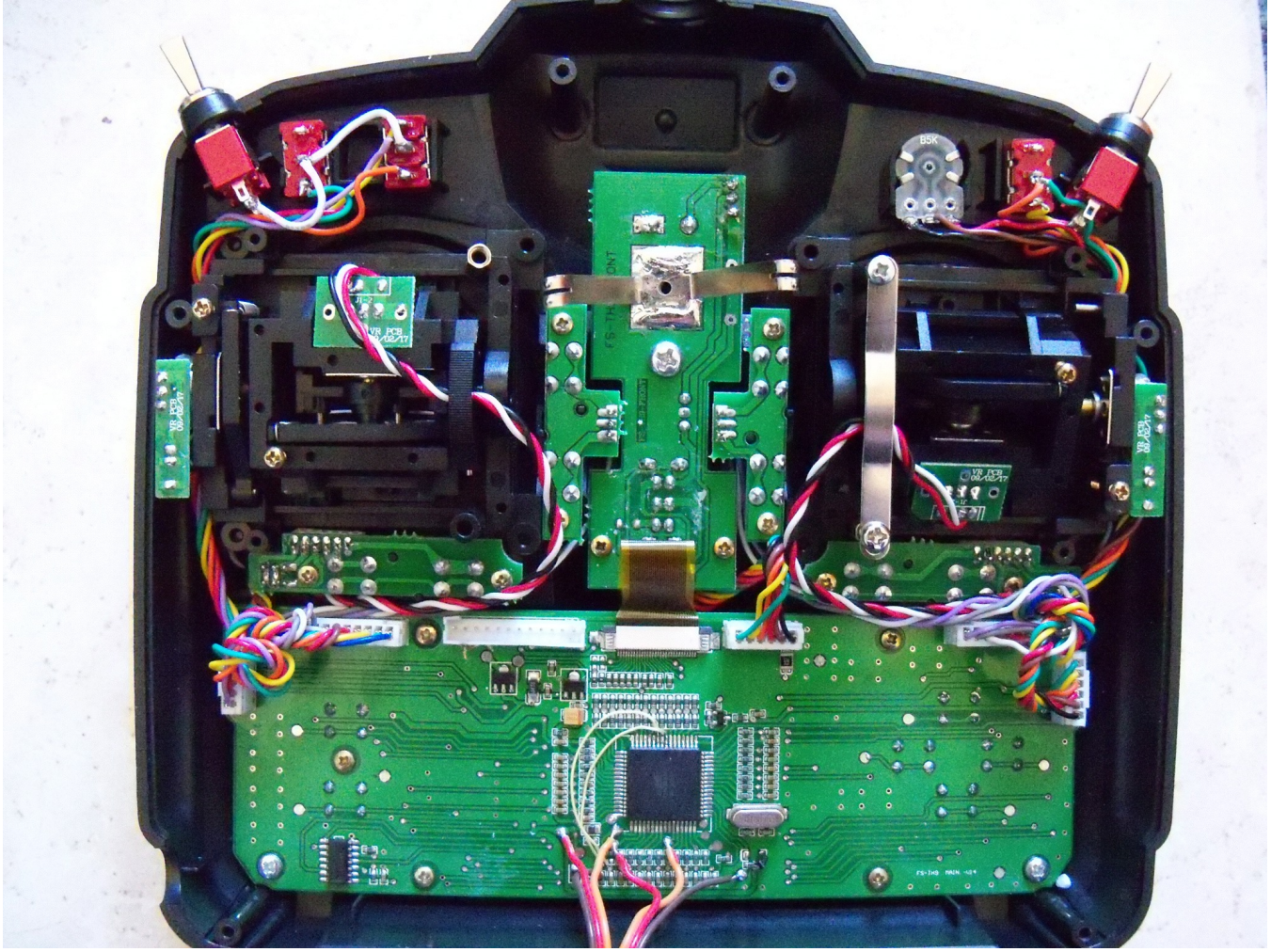
Here is a closeup of the FET switch turned on or off by software.



In the corner of the main CPU is a solder pad. That is where the center of the FET goes.

With the flat side up, the left pin goes to a ground pad as shown.
The right pin connects to the NEGITIVE input of the inverter. The positive of the inverter goes to the 12 CDC at the main switch.

The other wires seen are for the programming plug.



Put the panel back in place carefully, covering the actual LCD fully.
Remember, the two different screw sizes. I struggled with this until I realized the screws went into the different size holes!

That's it ! Pretty easy.....