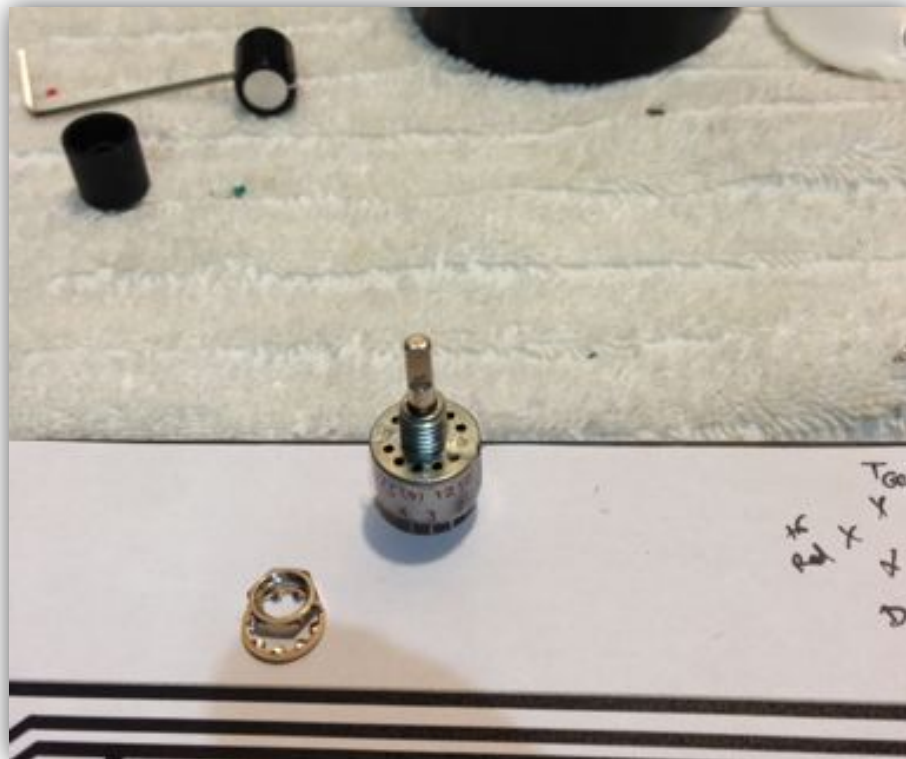


6 Position 2 Pole Rotary Switch with LED Feedback Guide



by Pino Agostino (LTMNO)



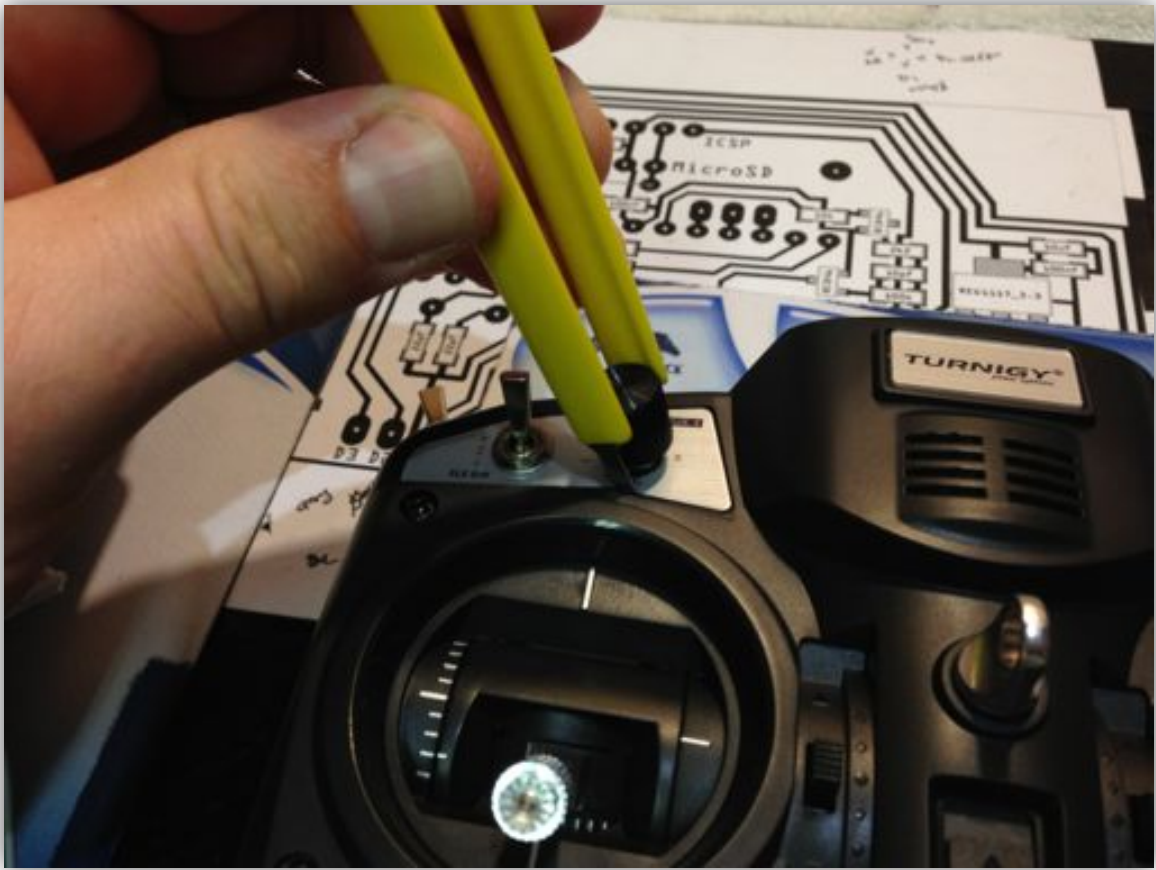
The Switch from Digi-Key:

<http://www.digikey.ca/product-detail/en/MD00L1NCQD/CKC7012-ND/480194>

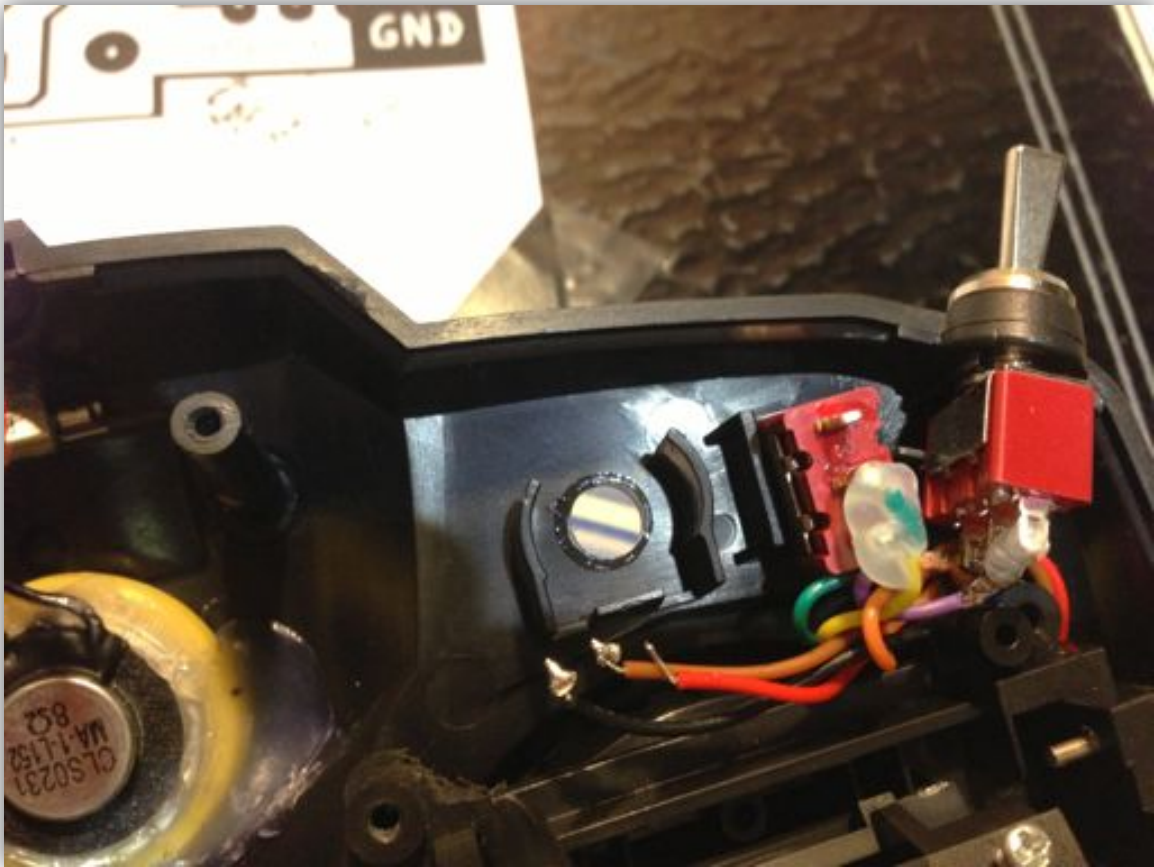
(\$12.56) I was willing to pay more for better...

\$ 0.20	2x	1K	Resistor
\$ 0.50	5x	1.5K	Resistor
\$ 0.10	1x	2.8K	Resistor
\$ 2.00	4x	Green LED (Bag of 10)	
\$ 2.00	1x	Red LED (Bag of 10)	
\$12.56	1x	6Pos2Pol Rotary Switch	
\$ 2.00	1x	Knob (Electronics Store)	

Everything in for \$19.36

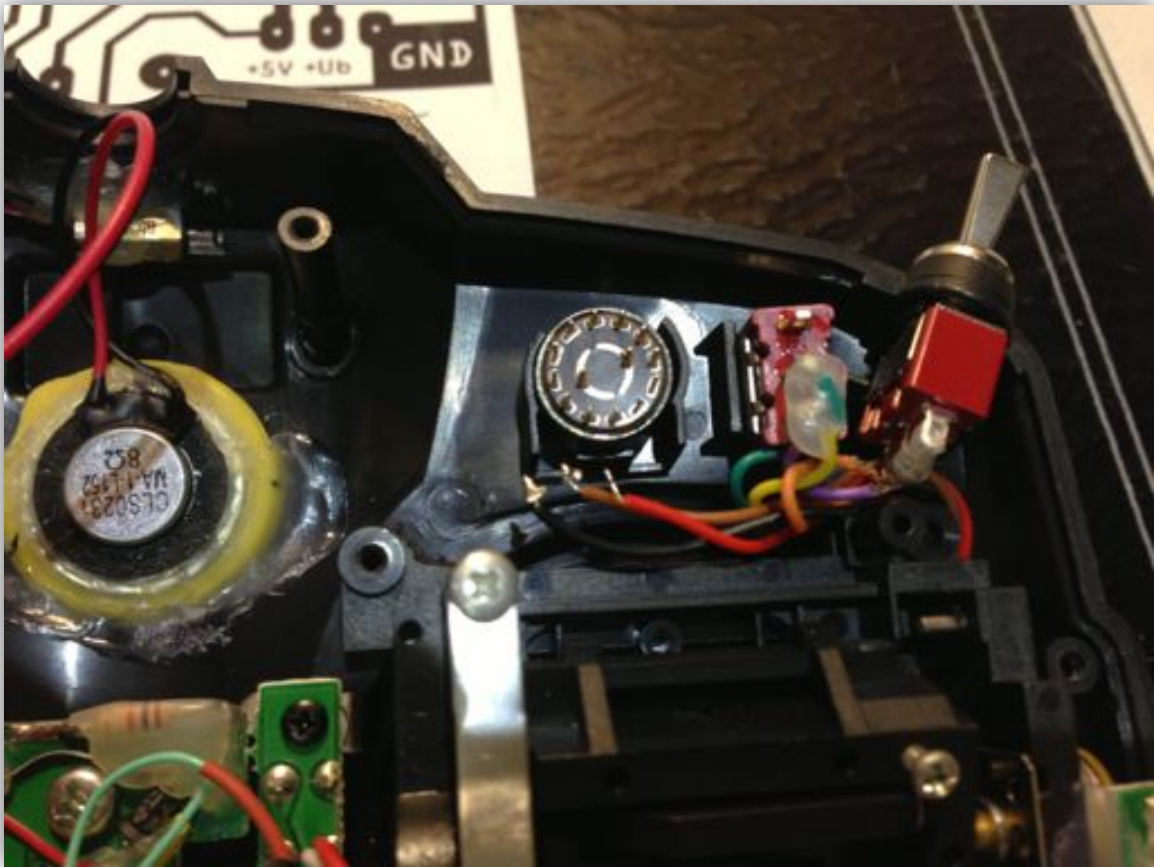


Carefully remove the POT Knob with an IC Socket Remover. Surprising how easy it came off really.



Remove the 3 wires from the 5K POT (BLACK/BROWN/RED)

You are going to solder the BROWN to P1 and the RED to the Position 1 lead before a Resistor and the BLACK wire on Position 7 before a Resistor. (Reference Diagram in Appendix)



Place the Rotary Switch in place of the hole and be surprised that you don't have to cut any plastic or drill any holes bigger... it just fits! That is why you pay \$12.56.



Fits in the Hole on the other side and make sure you align the arm correctly. The flat side of the arm will face North-by-North-East. Pretty much the first dot you see on the screen.



Place the washer and nut on the arm and fasten tightly.



Fasten the Knob on the Arm and lock into place with Alan Key provided.

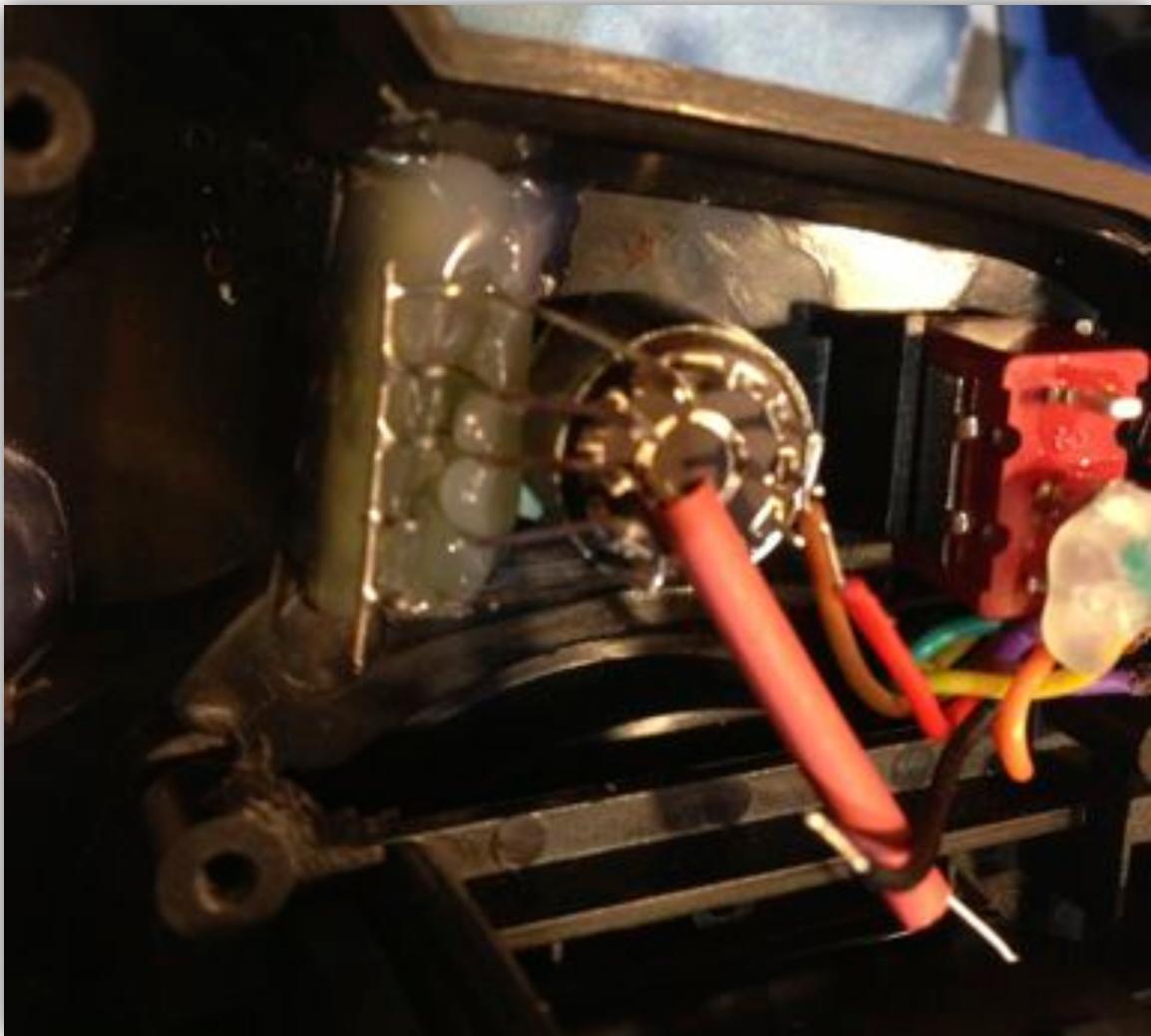
Face Plate Design

I knew I wanted to have a Labeled Face Plate so I created this in Photoshop after taking a picture of the Radio. I printed it out a few times and trimmed the Grey Area unit fit. I printed it on a white letter label and with the grain in the image it came out okay. I then used a clear label to cover it so that it would not damage over time.

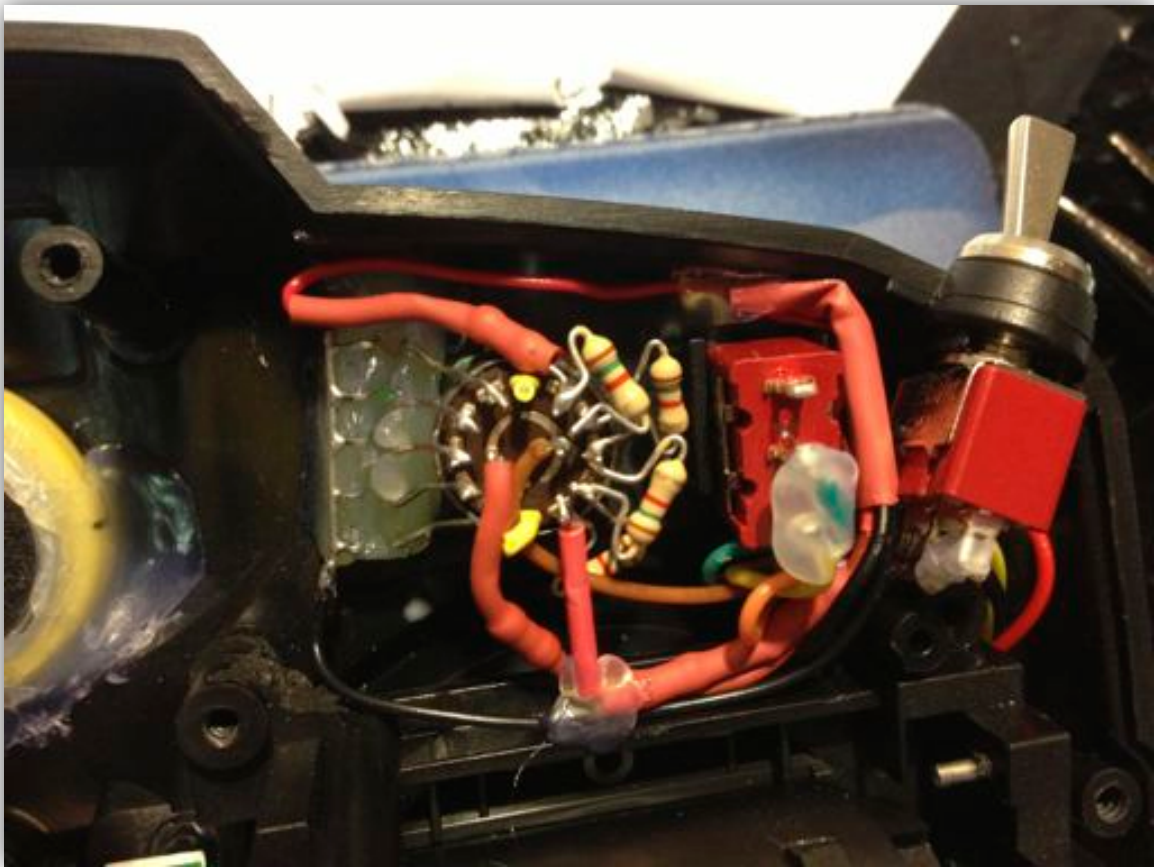
I will look to improve this with a thicker more rubber top layer when I can find it.



Once the Design was complete and placed on the Radio, I drilled the Holes and put in the LEDs with a lot of Hot Glue to hold in place.

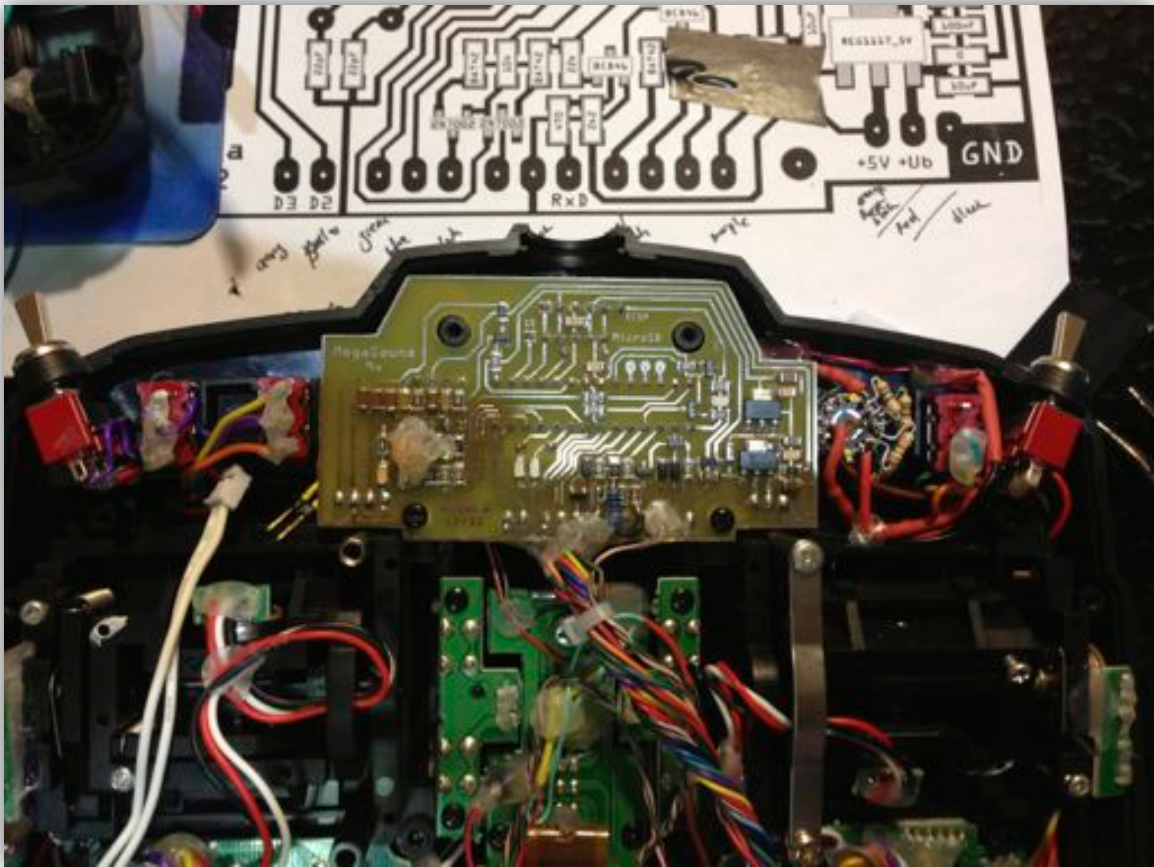


You have to mount your LEDs and as you can see that I mounted mine beside the Switch so that it was easier to connect them and knowing that I was going to use a face plate to show where I am on the switch. I solder the short side of all LED leads to a Ground Bar(Far Left of Photo) and then the long side to the Switch from Position 7 to 11 respectively. I cover pin 12 and pin 6 with yellow Heat Shrink so that they don't touch anything. I then mount my 1K Resistor to the Pole 2 of the Switch; this is hidden by the Heat Shrink and the other end to the Power source of your choice. I used the +8.2v from my Battery from the Power Switch PCB. Then I connect the Ground Bar to GND anywhere in the Radio and your LED Circuit is complete. (Half the battle is over)



Unfortunately, I didn't snap enough pictures as I was getting excited to be nearly done here but I can describe what I did next.

You Connect the **BROWN** wire to the Pole 1 and then the **+5V** wire to the **1st** Resistor and then to the **1st** Terminal(follow the Wiring Diagram). Make sure to alternate the High and Low mounting of Resistors on the Switch so that they all fit. On my next radio, I will most likely build a PCB with SMD resistors on it(Designing one now). That will be much easier... Then on Terminal 5 you will add the last Resistor and then connect to the **BLACK** Wire witch is GND(see Wiring Diagram). Once that is all done, you are good to go and test it all out.



I mounted my MegaSound9x Module to the Radio with enough room (I checked before proceeding with this MOD) and am ready to close the radio.

Appendix

