

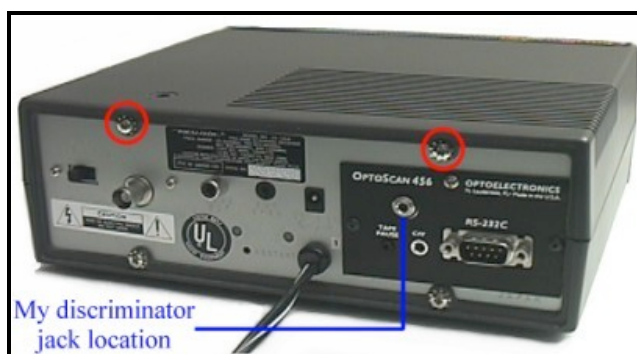
Realistic Pro-2006 Discriminator Mod

WARNING

*You assume all risks involved with performing this modification
I will not be held responsible if you destroy your scanner*

The Pro-2006 is one of the easiest scanners to modify for discriminator output.
Just a couple supplies are needed to complete the mod:

- A 10u capacitor
- Some kind of jack to terminate the discriminator tap. I used a 3.5mm mini phone jack since my data slicer is equipped with a 3.5mm mini plug.
- A short length of shielded audio cable
- A soldering iron, solder, drill, wire cutters/strippers, small philips screwdriver

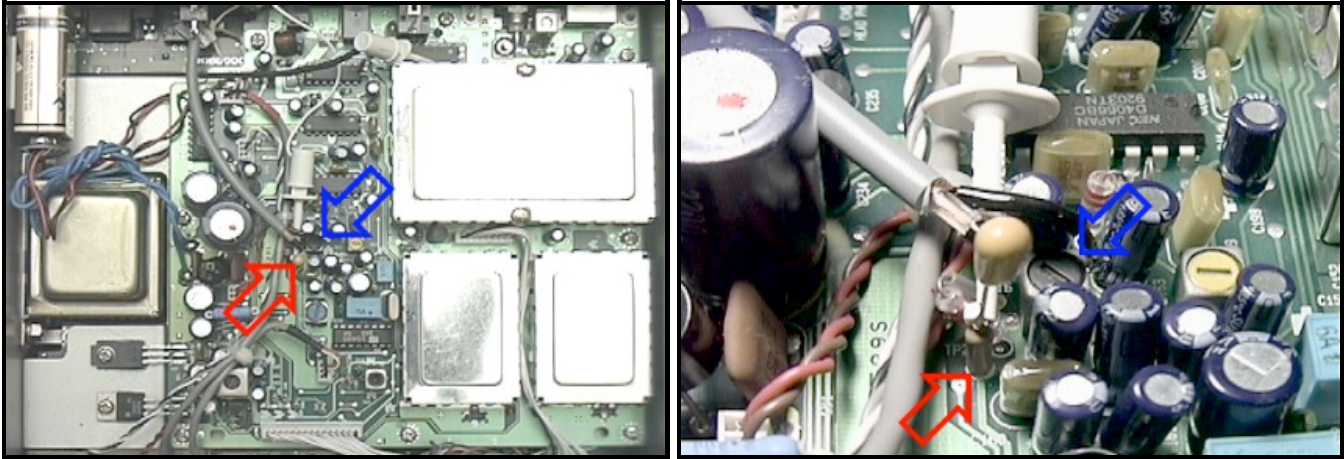


Begin by removing the screws circled in red above
This allows the top half of the case to be removed



Be careful when removing the top - the speaker is attached to the top and the main PC board by a short length of wire and a small polarized connector. This connector may be unplugged from the PC board to allow the top to be completely removed.

With the top removed you will have to decide where you want to mount your jack. I mounted mine on the small metal plate that came with my OptoScan456 board. Any spot on the rear chassis wall would be fine. Once you have found a spot go ahead and drill a hole large enough to accept the jack you have decided to use making sure you have enough shielded audio cable to reach the discriminator tap (see below) from the point you have chosen. Do not mount the jack at this time.

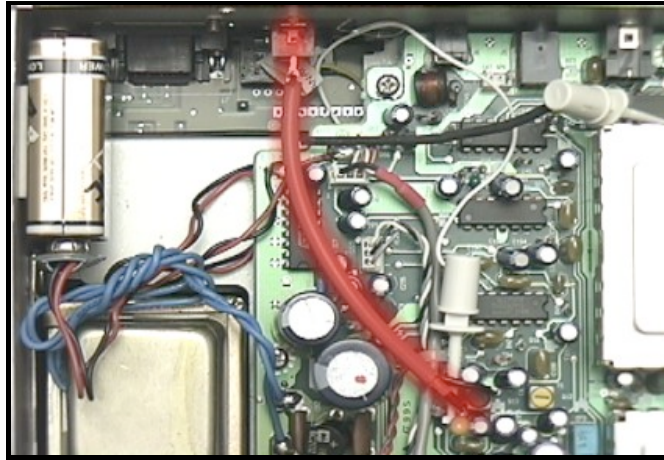


The red arrows indicate the discriminator tap location (referred to as "TP2" on the PC board). It resembles a resistor standing on end. You need to solder the positive leg of the 10u capacitor to the exposed wire of the discriminator tap. The other leg needs to be soldered to the center conductor of the shielded audio cable. The blue arrows indicate the metal can to which the shield from the audio cable should be soldered. ***USE CAUTION WHEN SOLDERING TO THE TAP AND THE METAL CAN - DAMAGE MAY OCCUR IF TOO MUCH HEAT IS APPLIED!***



The other end of the audio cable needs to be soldered to the jack you have selected. The center conductor should be soldered to the tip portion of the jack and the shield should be soldered to the ground portion of the jack. In my case, since I am using a 3.5mm mono plug, I elected to solder the shield to the ring portion of the jack since it is the same as the ground.

You may now mount the jack in the hole you had previously drilled



My completed discriminator tap routed to the rear chassis wall and terminated with a 3.5mm mini phone jack

All that remains is to reattach the speaker wire to the PC board and secure the top of the case to the scanner