

The FT847 has some big problems with burned powerswitches.

After some weeks my used FT847 had the same problem, the rig was only running when you keep your fingers on the switch.

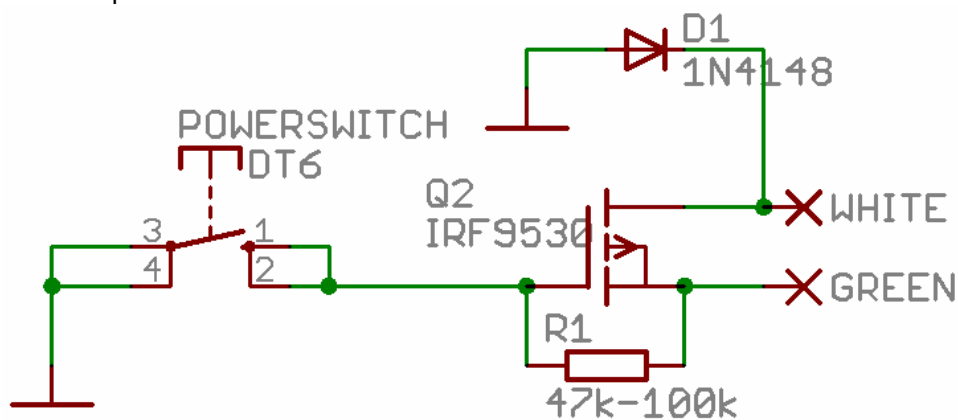
I measured the peakcurrent trough the switch with an 0,1 Ohm Resistor and an Oscilloscope. The peakcurrent is over 1 A ! After some times the switchcontacts are burned and the rig won't turn on. There are some mods for this problem.

1. Installing a resistor in the powerswitch lines to keep the switchcurrent low.
2. Installing a relay

I don't like relays..relays make noise and use power...so im using a p-channel FET

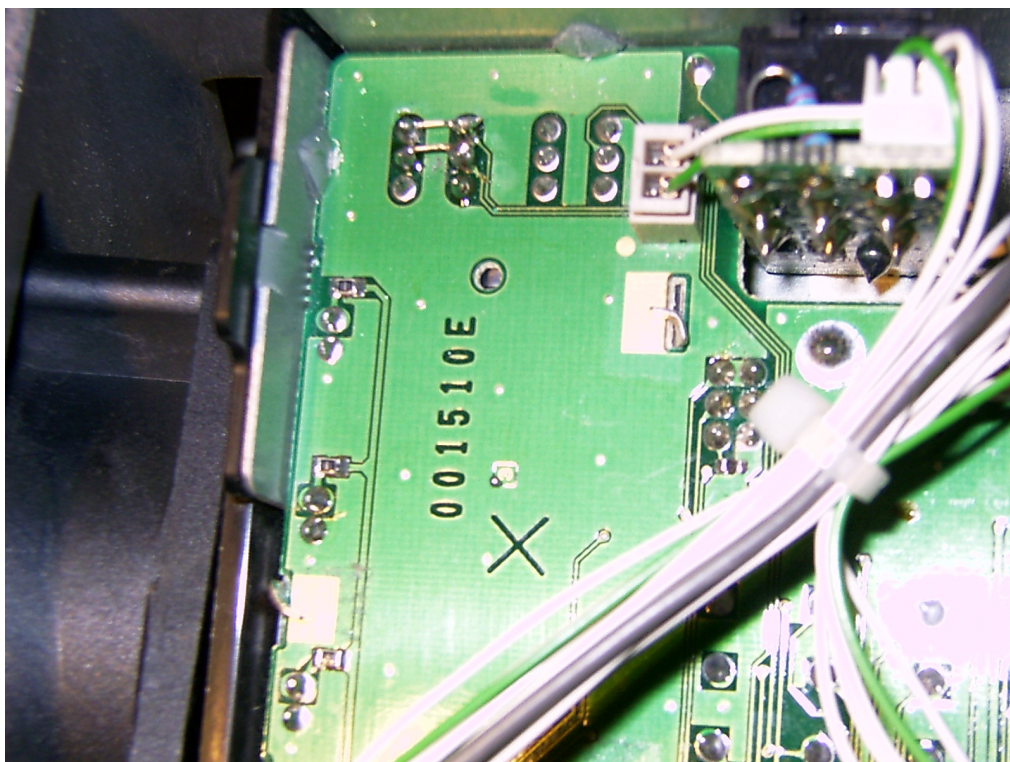
Any FET with a low resistance should work. The value of R1 is not critical, any value from 10k – 100k is ok.

The new powerswitch circuit:

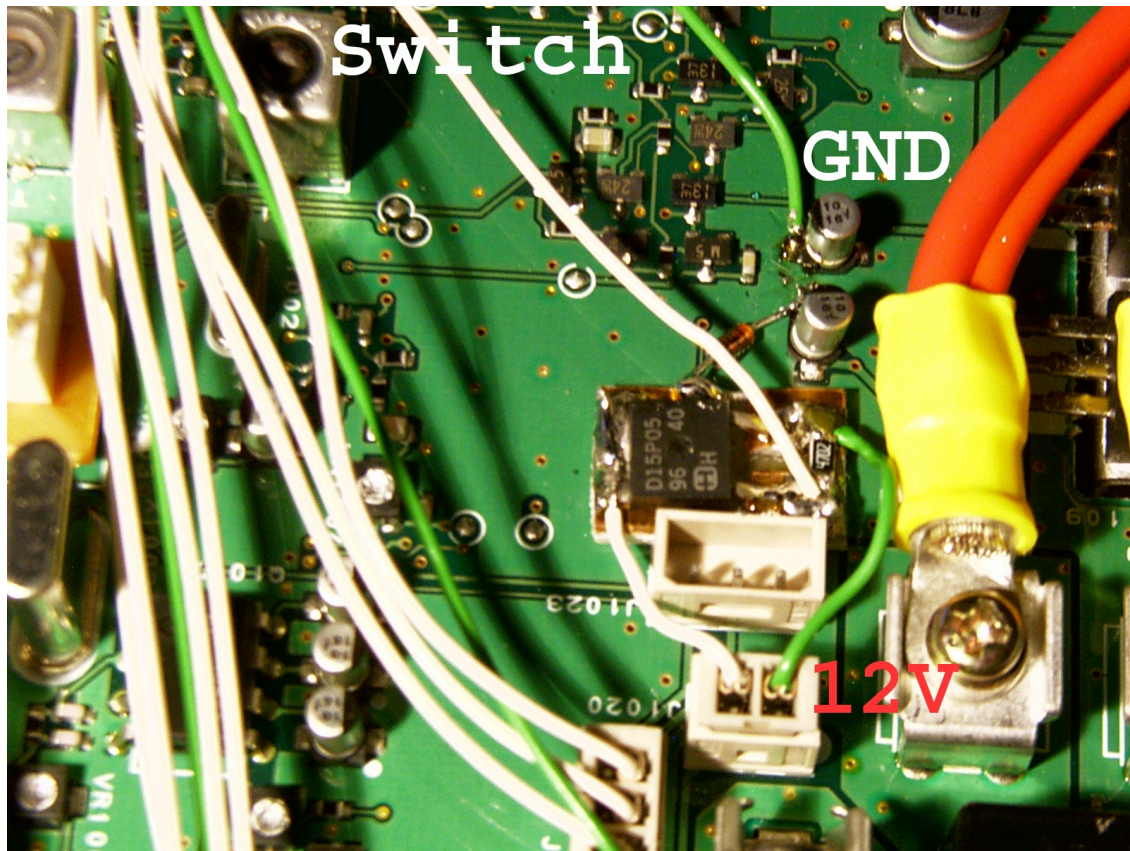


Making the mod.

1. Open the lower cover
 2. If your power switch is already burned remove front cover.
- The switch has two levels but only one is used. You can just bridge the two levels



3. Locate the green/white cable from the powerswitch on the AF-CNTL Unit.
4. Cut both cables about 2,5 cm from the plug J1020
5. Solder the green wire from the switch to ground and the white wire to the gate of the FET.



6. Solder the green wire from the plug to the Source of the FET and the white wire from the plug to the drain.
7. Connect a diode from ground to drain
8. Ready to go.

The Plug on J1023 is removed only for a better view on the pictures and must be reconnected after the modification !!!

Now the switch current is lower than 0,25mA !