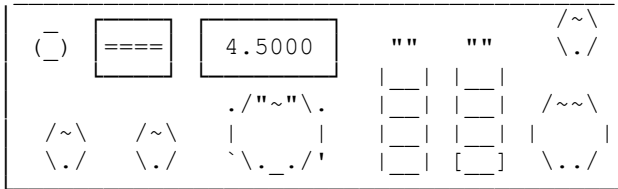


FT290/690/790 DC Power mod.

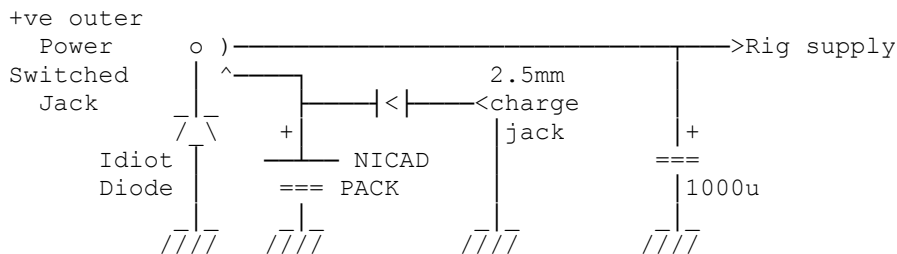
By G8MNY

(new Graphics Feb 06)

(8 Bit ASCII Graphics use code page 437 or 850)



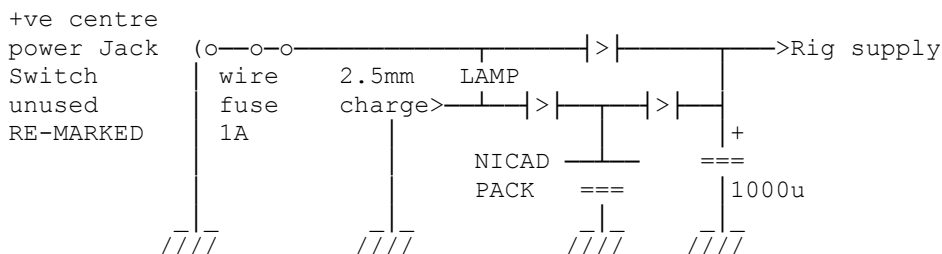
THE ORIGINAL CIRCUIT



WHAT'S WRONG

- 1/ The original external power jack uses the dangerous +ve outer standard so that the when connected to other kit there is a risk of shorting.
- 2/ The jack switch is supposed to disconnect the +ve battery lead when the external power is applied. This depends very much on the make/type of plug used, & it is easy to draw high current though the battery pack & cook the cells & holder & possibly the rig!
- 3/ An reverse polarity idiot diode is provided, but the -ve connection. So if the rig is connected to other kit (e.g. a powered speech processor) the protection is negated, and the mic lead now carries the rig current!
- 4/ The Plugtop raw charging (hummy battery) is via a 2.5mm jack socket that shorts out the charger while being plugged in/out. There is no indication that the charger is not being shorted out!

Here is my circuit that solves most of these problems...



It uses most of the existing components. The fuse is just 1 cm of very fine relay wire in case of disaster. The lamp is a wire ended 12v fairy light that provides low trickle current when the rig is 10-14V powered.

Some rigs also include a small 1000uF 16v by the jacks. The 12V jack is

remarked with a +ve centre with a RED felt pen.

The disadvantage is that there is a diode in the battery supply lead to the rig, I feel this is a worth while loss for protecting the battery pack from damage.

Why Don't U send an interesting bul?

73 De John, G8MNY @ GB7CIP
/EX