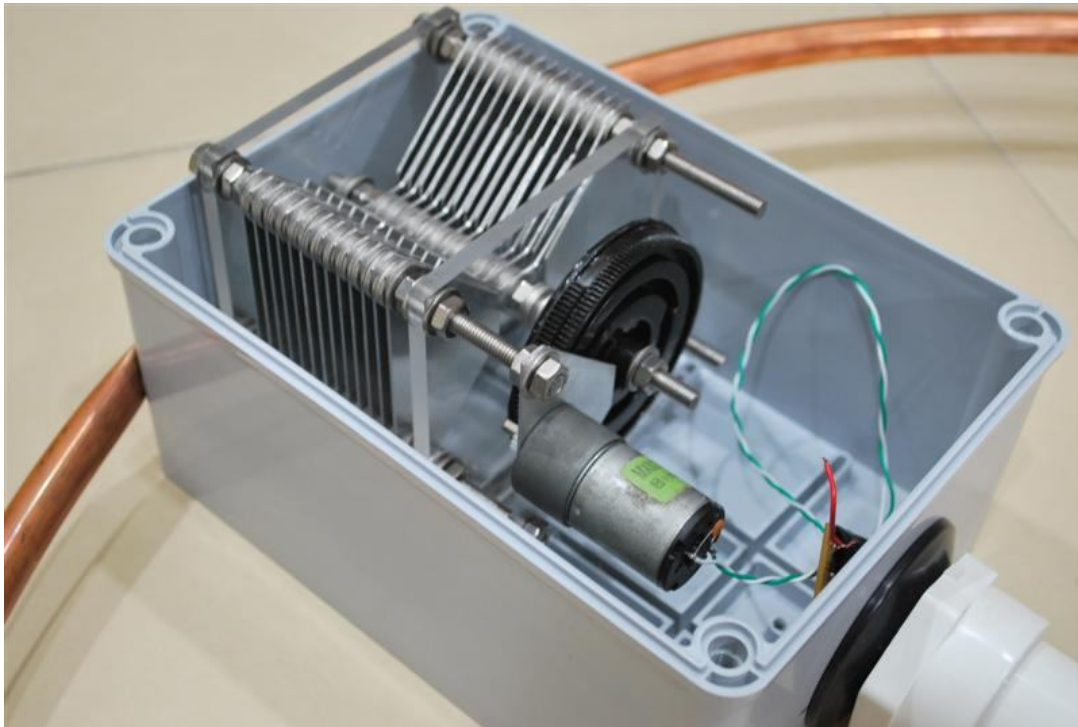
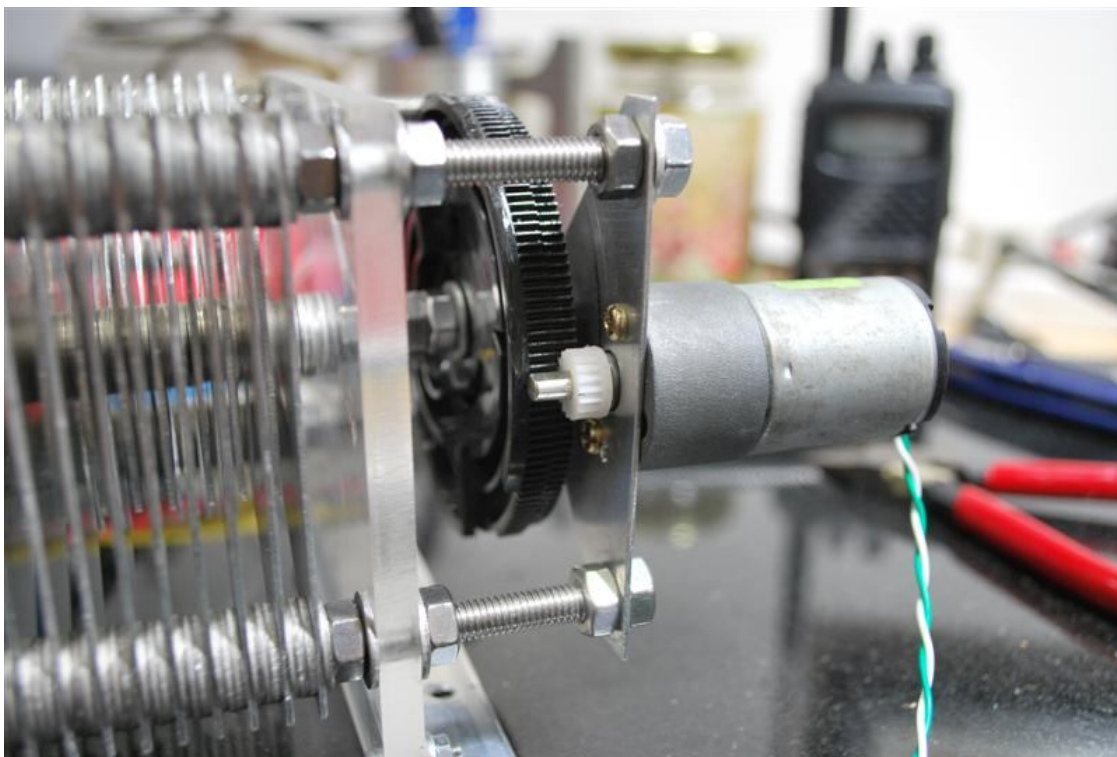


**The Variable Capacitor & Magnetic Loop Antenna Project -  
update 2 Sept 2010 by 9w2dtr**





After some tinkering.... I decided to use a single cable for both RF and DC... I planned to make use of the FT897D ability to tune the antenna instead of having a separate box just to tune the variable capacitor. Since the FT897D has a built-in circuit to control the YAESU ATAS screwdriver antenna, it should be able to do the

same on this project.

I took some gears from an old CD player and a motor, coupled it with the motor controller that I made sometime ago for the Screwdriver Antenna project. I still need to make the Bias-T circuit before I can test the motorized capacitor. So far, with manual tuning, I can tune to 10m & 20m. I decided to abandon the wide-band loop project as I realized it require a much larger capacitance. It is very tricky to get a high maximum capacitance while having a lower minimum capacitance...