MAGNETIC LOOP FOR 80m - 40m

EVOLUTION OF A PROJECT ...

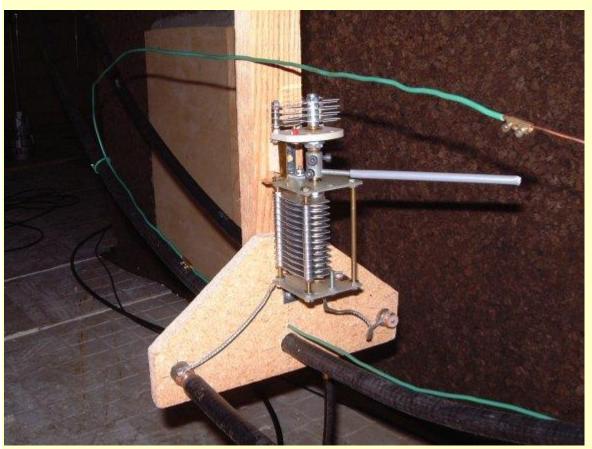


December 2002:

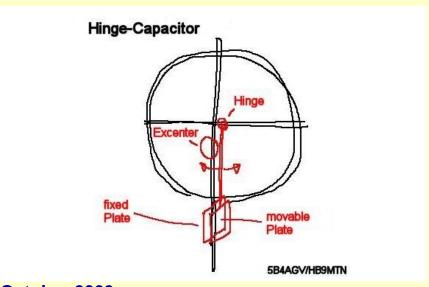
Two turn CELLFLEX 1/2"-CABLE-LOOP for 80m - 40m, Diameter 1.6m, Spacing 0.1m, Capacitor 150pF max.



June 2003: Same loop at final place in attic

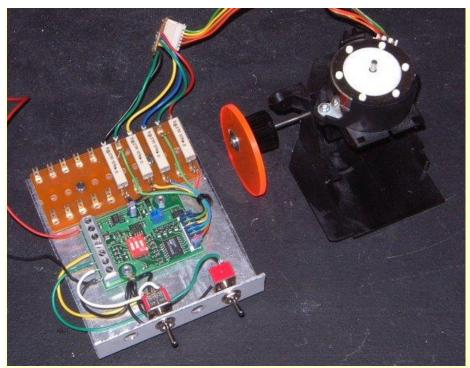


Detail of coupling loop and experimental capacitor (theoretically 128 pF/3.2 kV for 80m, 14 pF/5.6 kV for 40m at 50 W)



October 2003:

Planned Hinge-Capacitor, Remote Control via Motor-driven Excenter (Plates 25x25cm, Spacing at 80m = 625 cm²/128pF = 4.88mm, Spacing at 40m = 625cm²/14pF = 44.64mm)

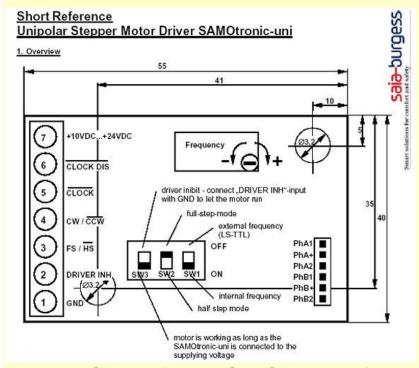


December 2003:

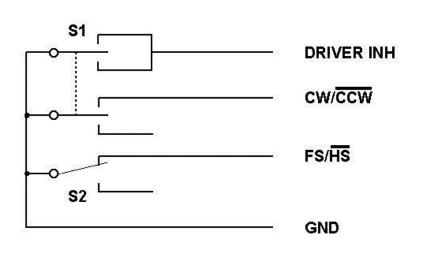
Stepper Motor Remote Control Experimental Hookup (saia-burgess Unipolar Stepper motor Driver SAMOtronic 101, 4 Series Resistors,

Excenter Disk, attached to Stepper Motor and Worm Drive Gear from dismanteled HP DeskJet-Printer.

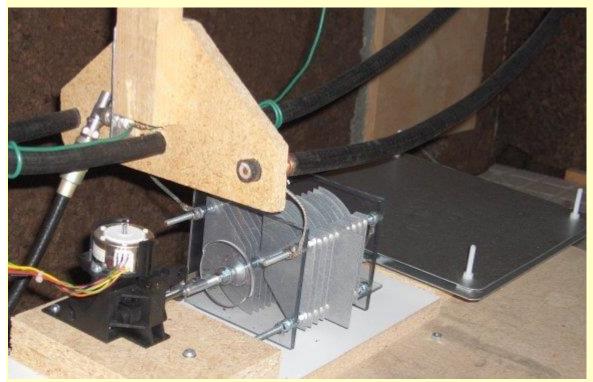
Full Step Mode: 2 R/min, Half Step Mode: 1 R/min, adjustable)



<u>Download Short Reference SAMOtronic 101 from saia-burgess Page</u>

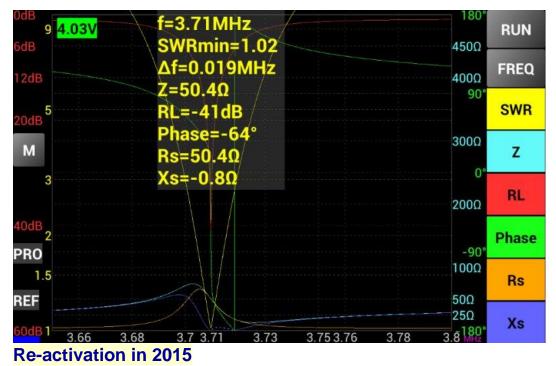


\$1 = FORWARD/REVERSE, **\$2** = FAST/SLOW



June 2005:

Remote-controlled 68pF variable Capacitor + parallel 80pF fix (For 80m only, I dropped the Hinge-Capacitor-Idea and added 40m to my Indoor Multiband Diple!)



...does not look too bad, does it?