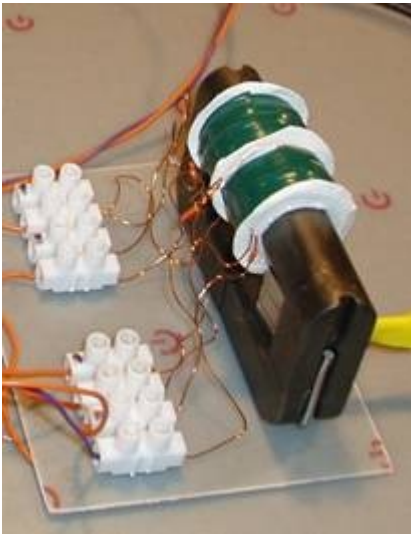
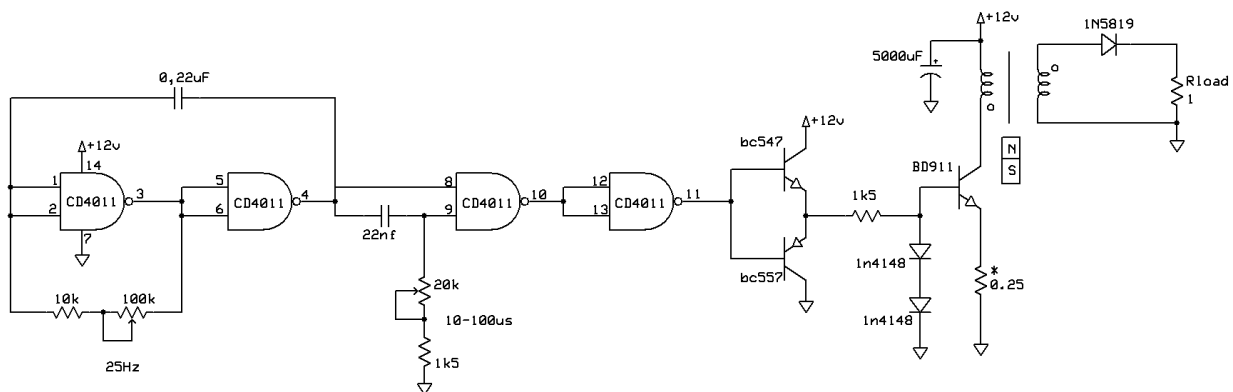


One more interesting thing I have found during my "exercises", in some arrangements transformer core is cooling. Many people reported this effect earlier but I was never able to observe it myself before.

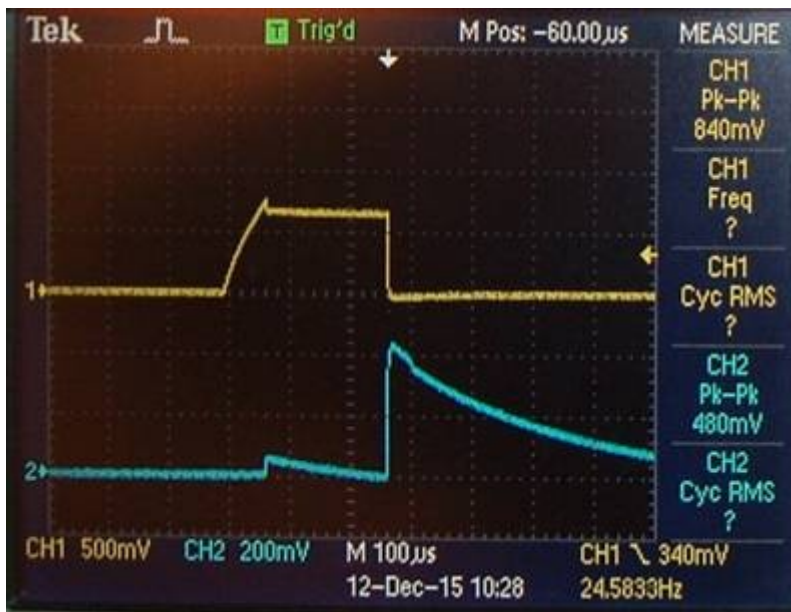


I use same core from my MEG experiments with 3 small magnets inserted.



pic. Test setup schematic

Driver switch replaces with current source. Current limit adjusted in such way that core magnetization come close to zero (driver creates field opposite to magnet). Demagnetization pulses are several times shorter than magnetization process (by magnet).



top – current in transistor's emitter, bottom – voltage on the load resistor

Using digital thermometer based on ds18b20 chip I see small temperature drop (about 0.1 degree) if I run setup continuously for half an hour or so...

Have fun :)