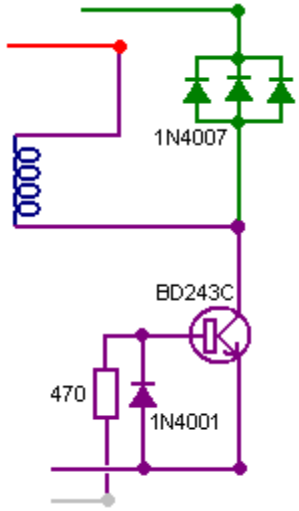
A Compilation/Summary of Devices that Produce Over unity - Rough Research Notes – by EZ3DBIZ.com

1N4007

When the transistor switches off, the coils try to pull the transistor Drain connection down to a voltage well below the 0-volt battery line. To prevent this, a 1N4007 diode is connected across the cell and its coils. The diode is connected so that no current flows through it until the transistor Drain gets dragged down below the 0-volt line, but then that happens, the diode effectively gets turned over and as soon as 0.7 volts is placed across it, it starts to conduct heavily and collapses the negative voltage swing, protecting the transistor, and importantly, keeping the pulsed waveform restricted to positive DC pulses, which is essential for tapping this extra environmental energy which is what actually performs the electrolysis. You can easily tell that it is the environmental "cold" electricity which is doing the electrolysis as the cell stays cold even though it is putting out large volumes of gas. If the electrolysis were being done by conventional electricity, the cell temperature would rise during the electrolysis. A John Bedini pulser circuit can be used very effectively with a cell of this type and it adjusts automatically to the resonant frequency as the cell is part of the frequency-determining circuit.

By using bridge rectifier (ultra fast) you can get 100 volts of DC. A high frequency switching output cannot be rectified properly by using normal bridge rectifier like 1N4007 or similar

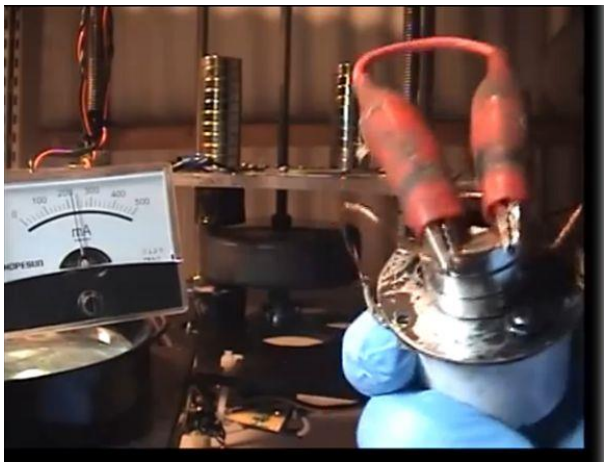
You will notice that there are fourteen identical circuit sections. Each of these is quite simple:



This is a very simple transistor circuit. When the trigger line goes positive (driven by the magnet passing the coil) the transistor is switched on hard, powering the coil which is then effectively connected across the driving battery. The trigger pulse is quite short, so the transistor switches off almost immediately. This is the point at which the circuit operation gets subtle. The coil characteristics are such that this sharp powering pulse and sudden cut-off cause the voltage across the coil to rise very rapidly, dragging the voltage on the collector of the transistor up to several hundred volts. Fortunately, this effect is energy drawn from the environment which is quite unlike conventional electricity, and thankfully, a good deal less damaging to the transistor. This rise in voltage, effectively "turns over" the set of three 1N4007 diodes which then conducts strongly, feeding this excess free-energy into the charging battery. Ron uses three diodes in parallel as they have a better current-carrying capacity and thermal characteristics than a single diode. This is a common practice and any number of diodes can be placed in parallel, with sometimes as many as ten being used.

Additional Parts:2M ohm potentiometer (lin. taper)

001uF 50V ceramic disk capacitor



Ferrite core is why it ampfiles teh energy because it reduces the bleed off, just as a transformer does not have an iron rod to stop this bleed, any torroid or ferrite rod solves this problem.with coils short-circuited, and also with stack of magnets behind the cores of the generator coils, you can get motor to speed up. In this pariticular mtotor/generator the amount of speed-up happening has lots to do with the distance the coil and its ferrite core, is to the spinning rotor of 8 all-North facing rneodimium magnets magnets (the air-gap adjustment) As shown below a coil with 3 neo magnets shorted out increase the RPM's of the motor. Possibly a ferrite core coil does this. vVideo shown below: Name of video: Shorted coil speed up.mp4

Image below has 2 magnets in the center

Page 1 Meg Generator transistor type: A TIP3055 (possibly 2N3055) transistor, but can be any fast transistor

Shorting the circuit also helps start it as shown in this video:
http://www.youtube.com/watch?v=T9hvkr2G9Lw

Shorting the torroid also has been shown to boost voltage. Test shorting the transformer coil for this also.

This link shows schematics for Page 1 meg device:
http://www.youtube.com/watch?v=T9hvkr2G9Lw

https://www.youtube.com/watch?v=Ox63RvnlW08 (this link shows dc transformer) and schematic to drive two 1 watt bulbs.

The Bedini circuit is similar because it also uses oscillation. more can be learned by copying out schematics from this video:
http://www.youtube.com/watch?v=0eWhB76toq0

Bodkins Kick Starter 2 Transistor CFL circuit
http://www.youtube.com/watch?v=8aXAAO2f1U8

Automotive ignition coil:
http://shelf3d.com/nrzRgDet_bl#2_ignition_coils_very_efficient_LED_driver_part1.flv

Shown above are 2 magnets mid center. top coils are shorted. right side is input left side is connected to load.

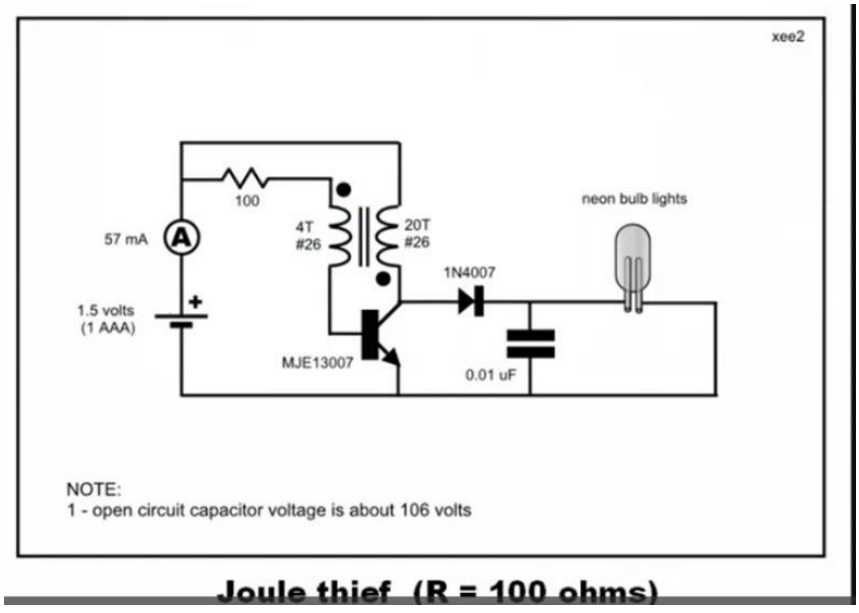
vide for above:

http://www.youtube.com/watch?v=iJsVSMQqCOM

video name: Self Assisted Oscillation in a Shorted Coil - Bucking Magnetic

Torriods can also be taken from old CFL lamps

make your own ferrite coil:



you can use this to wind your own coils 20 turns red #26 and

4 turns yellow #26

Energy is coupled from transmitter to the receiver magnetically through the air. Most transformers use a good flux concentrator (high relative permiability)such as steel or ferrite to "herd" the flux lines together and direct them to the secondary. In our case, we just have air (mu_r = 1). How good the coupling is depends on the 3D placement of the two coils as well as any intervening medium (such as metal or ferrite).

By introducing capacitors on both coils, a resonant circuit is formed between the inductance of the coil and the capacitor

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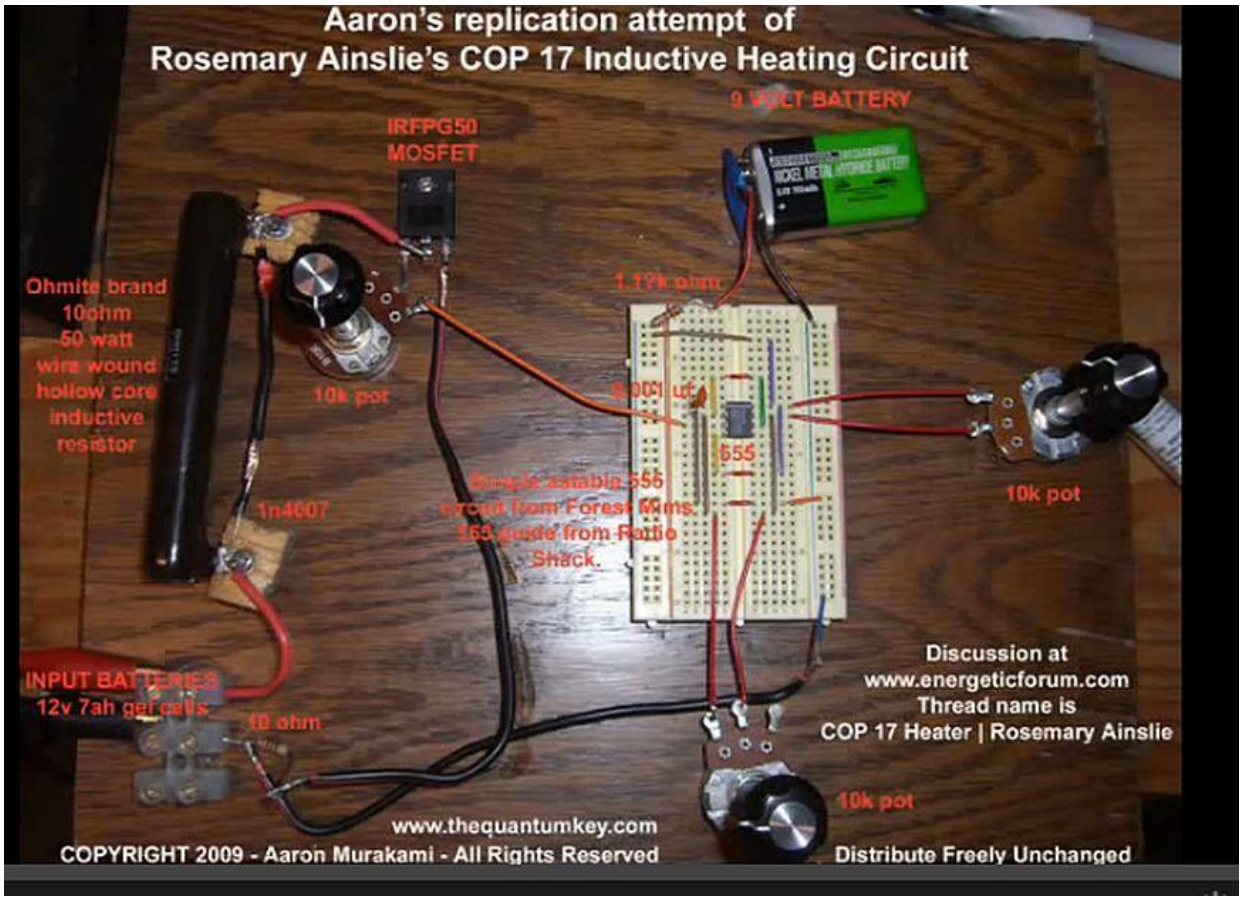


Rosemary Ainslie Heater Circuit Replication
Video for abvoe: (uses oscillation to run)

Over six years ago, the Rosemary Ainslie Circuit was originally reported by several witnesses and was independently Verified to have shown a Coefficient Of Performance greater than "17" (known as "COP>17"); specifically electrical energy efficiency in the heating of a resistive element. Meaning in this case; the circuit when properly built and tuned could show over "17 times" the heating efficiency that could be expected compared to a "conventional" device such as an electric "space heater" or "baseboard heater". So if a conventional household heater was rated at "1,700 Watts", a Rosemary Ainslie Circuit or similar concept-based device could produce the same amount of heat for only "100 Watts" of actual expended power...
http://www.youtube.com/watch?v=Z84u7--u3Qw

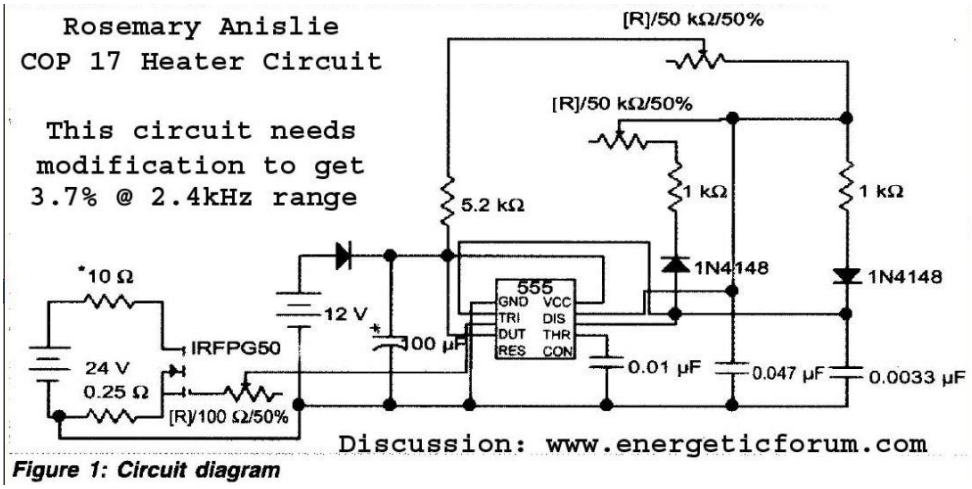


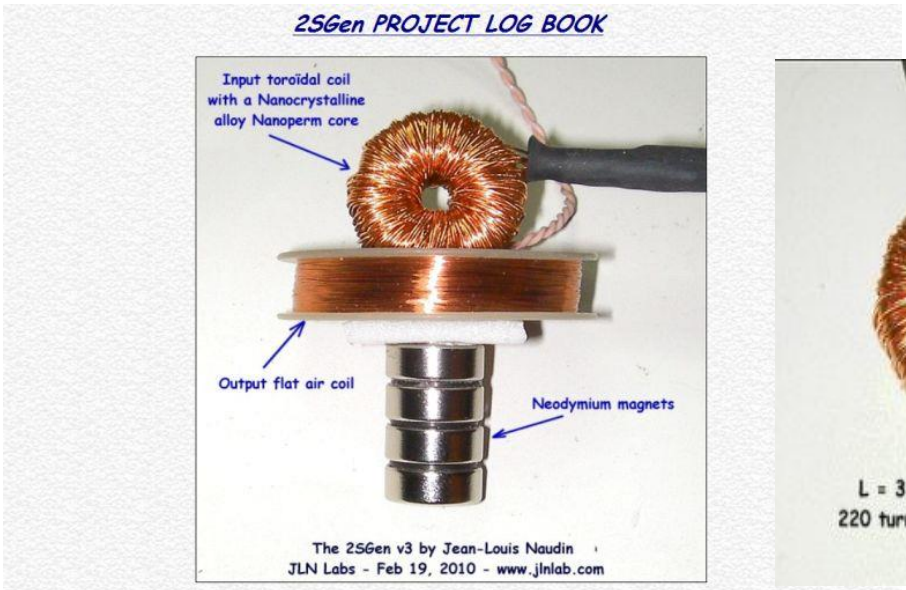
Figure 1: Circuit diagram

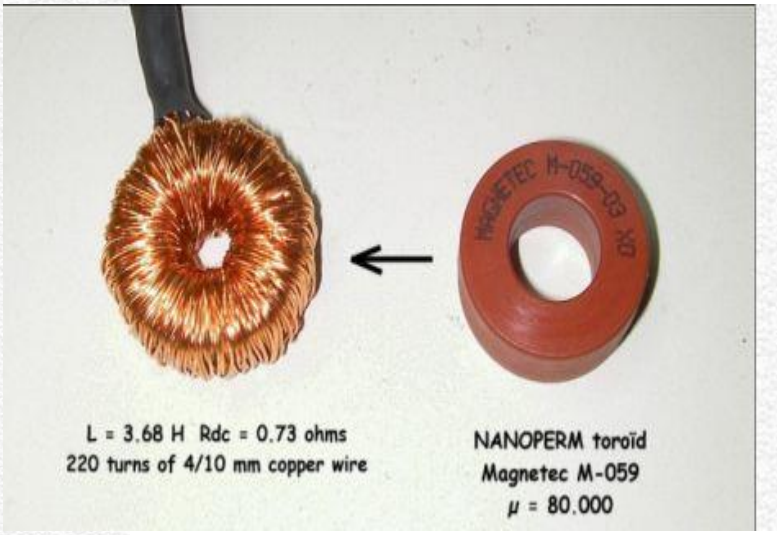
We have labeled the NPN transistor as BC547. This means you can use ANY NPN transistor, such as 2N2222, BC108, 2N3704, BC337 and hundreds of others. Some circuits use TUN for Transistor Universal NPN and this is the same as our reasoning - the transistor-type is just to let you know it is not critical.

BC557 can be replaced by: 2N3906, BC327 and many others.

Don't worry too much about the transistor-type.

Just make sure it is NPN, it this is the type needed.

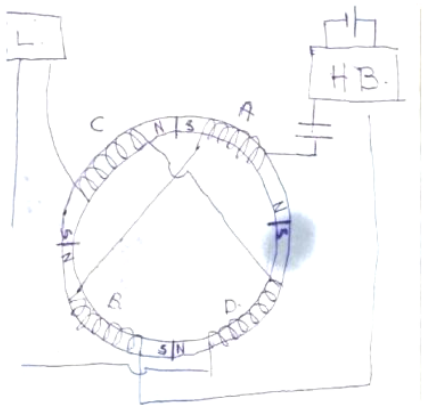




2SGen v1.0 is an amazing Solid State Generator very simple to build, you will observe some very interesting results about the properties of a toroidal coil with a ferromagnetic core when it is used with a neodymium magnet.

The toroïdal 2SGen coil has also been fully inserted in a cylindrical air coil.

1N4148

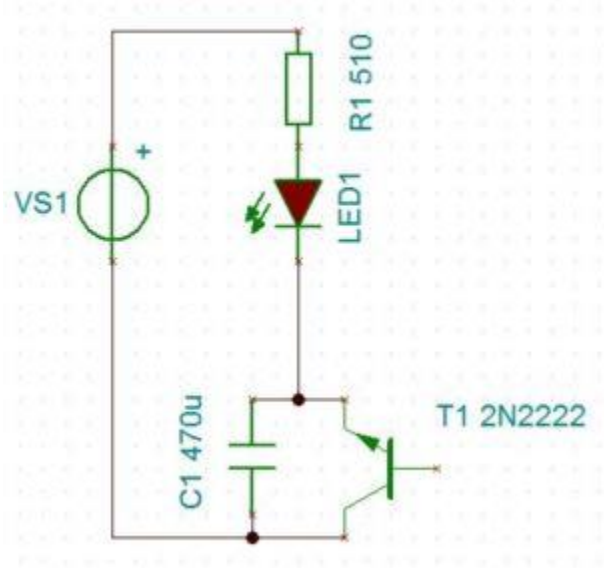


The original 1N4148 s that I chose because I had them at the time, were the best of any I tried, and indeed the only ones that worked at all.

Simple Oscillator

It doesn't look like a toroid any more does it? Well It may not physically look like a toroid but magnetically I have Still got four separate cores and four separate air gaps. In other words mag
circuit . The circuit boards you see are a variable oscillator driving an H bridge which can reverse the polarity applied to the four primary coils which I intend to be the four bottom coils consi
leg. The H bridge in practice can reverse polarity between a few Hz and Severn or eight Khz
The top four coils of course will feed the load having reversed one set in order to reverse the lenz effect as I explained in the PDF
It will not have escaped your eagle eye that this is very close to Ed Leedskalnin's PM holder

shown below. Circuit



Video for image on left:

http://www.youtube.com/watch?v=zAcZDDUlbNE#t=84

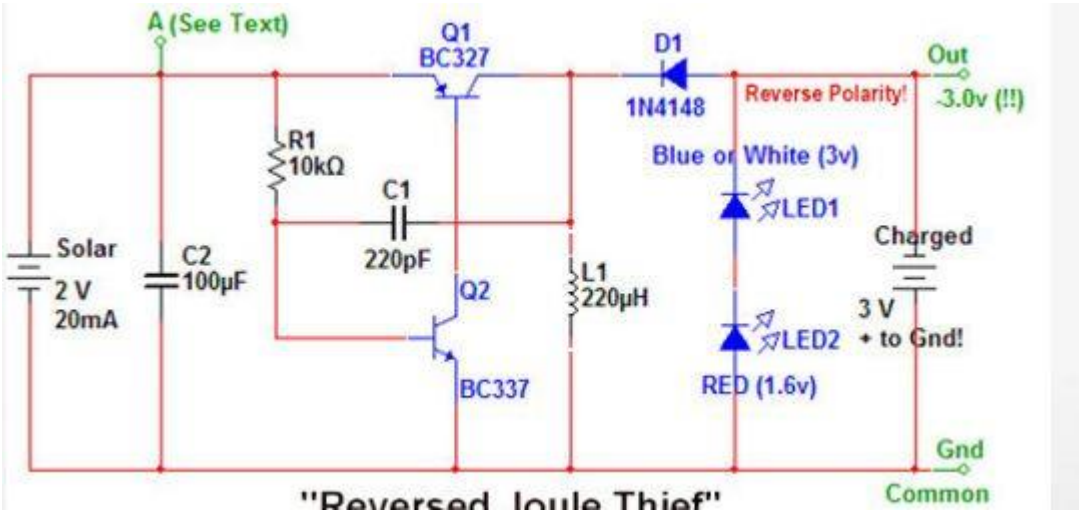
name of video:

Rare 2N2222 Transistor oscillator with very few parts

Motion activated joule thief led bike light – for later projects

Here is a totally different take on the Joule Thief (JT) circuit commonly found in garden lights. Instead of charging a 1.2v battery directly from the solar cell and converting the power to run a 3-volt LED, we'll be using the JT to convert the output from the solar cell and charging a Lithium battery first. Then when night falls, the battery is used to drive the LED directly.

This method has some advantages: (1) the Lithium cell that was chosen here (and avialable for $2 here) has an output of 3-volts, which can drive a White LED directly; it also has a huge capacity (800mAH) and very low leakage. (2) The solar cell normally can only charge the NiCd battery in full, direct sunlight, but, with the JT circuit, it is able to deliver power to the Lithium cell even on overcast days.



Link for above:
http://www.instructables.com/id/The-Reverse-Joule-Thief-Battery-Charger/?lang=de

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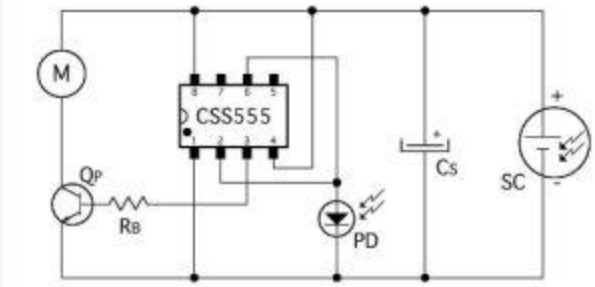
Schritt 1: The Basic Circuit



CSS555 Solar Engine

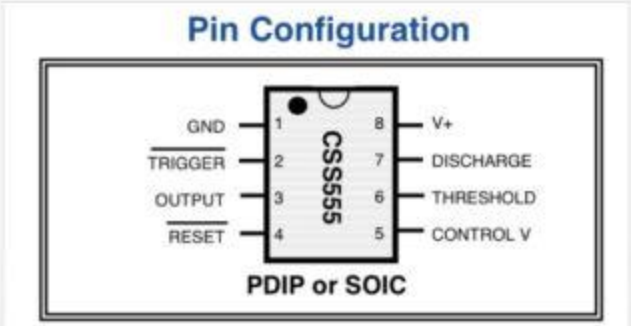


Figure 1

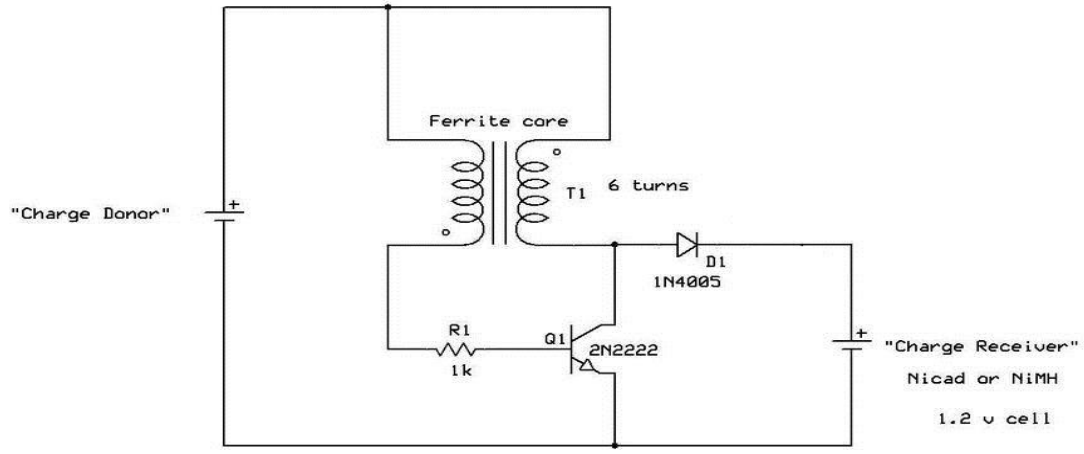
Solar Engine that activates the motor automatically when the battery reaches a certain voltage:

The main components of the CSS555 Solar Engine are labeled in this photograph. The CSS555 chip is available at Jameco.com. The solar cell shown here is a thin film on glass type available from imagesco.com (#SC-02). Although listed as an outdoor cell, it works very well on indirect and good room light. It is rated at 5.2V OC and 21mA SC. Cells rated as indoor type work well under fluorescent lighting, like calculator cells. Whatever cells are used, they should be capable of putting out a volt or two above the turn-on voltage of the solar engine to ensure an adequate rate of charge for the capacitor. The motor is a low current model suitable for solar operation. The static resistance of motors that work well with solar engines is in the neighborhood of 10 Ohms. A typical "toy" motor made to run on a battery or two is under 2 Ohms which is much too low for this kind of application; the capacitor will discharge through such a motor before it even begins to move. The capacitor shown is 0.1 Farad rated at 5 Volts. This solar engine has shown itself to work perfectly with capacitors ranging from 1000uF to 1.0F. A requirement for any capacitor in any low power solar engine is that it have a low ESR - under 1 Ohm. Most ordinary LEDs actually function as photodiodes, that is, when light falls on an unpowered LED, it outputs a voltage and current. A typical LED will usually put out around 1.2 Volts in bright light, but that varies among LEDs with some being a few tenths higher or lower. The output current of an LED is extremely small, but enough for the high impedance of the Trigger and Threshold pins of the CSS555. Now with an LED putting out 1.2V, the turn on voltage theoretically would be 3.6V and the turn off 1.8V. With 1.4V from the LED, turn on would be at 4.2V and off at 2.1V. This compares very well with measured voltages using a variety of LEDs: red tinted, clear red, green,yellow, small and large.

The output transistor in this circuit happens to be a ZVNL110A Mosfet, but an ordinary 2N3904 transistor works just fine. This circuit is made on a small piece of Stripboard. Some of the details of construction are visible in the accompanying photos.

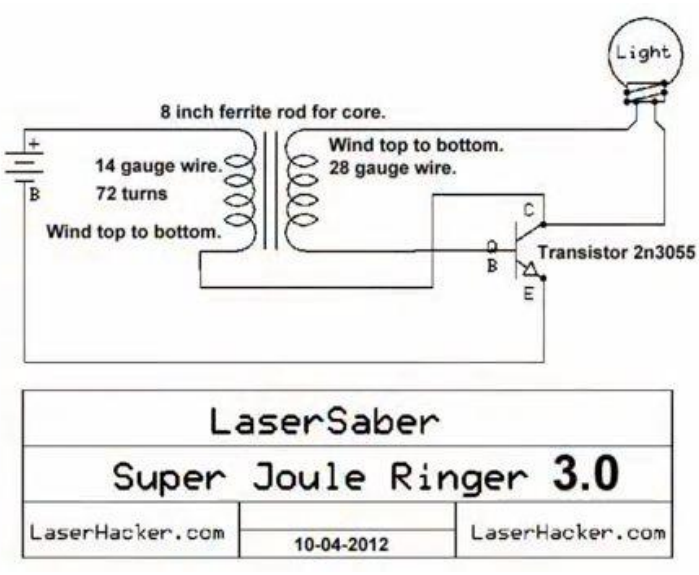
http://www.instructables.com/id/CSS555-Solar-Engine/?lang=de

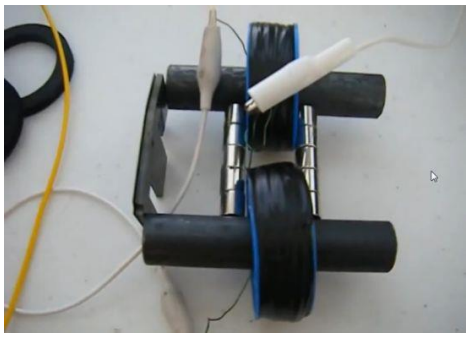
Solar Tracker Circuit Schematic
http://www.electroschematics.com/8019/diy-solar-tracker-system/ **i used 1N4001 and 2N3904 and have about 25 turns on my toroid Double Joule Solar Thief Link for above:** http://www.instructables.com/id/Double-Joule-Solar-Thief-All-Contained-in-a-Mint-T/?lang=es



Super Joule Ringer – uses the 2N3055 Transistor

Right Image - Iron rod in center When charged / energized the metal on both ends sticks hard.





Video assemble instructions:

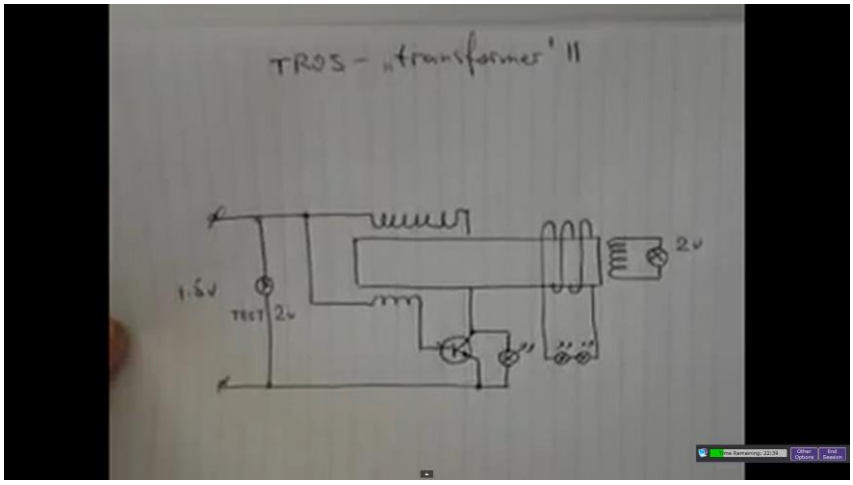
http://www.youtube.com/watch?v=vVXzGcyzu6o

Super Joule Ringer 3.0 Tips for Success

http://www.youtube.com/watch?v=DcFHZMhnV2g
Super Joule Ringer 3.0 real world power made easy

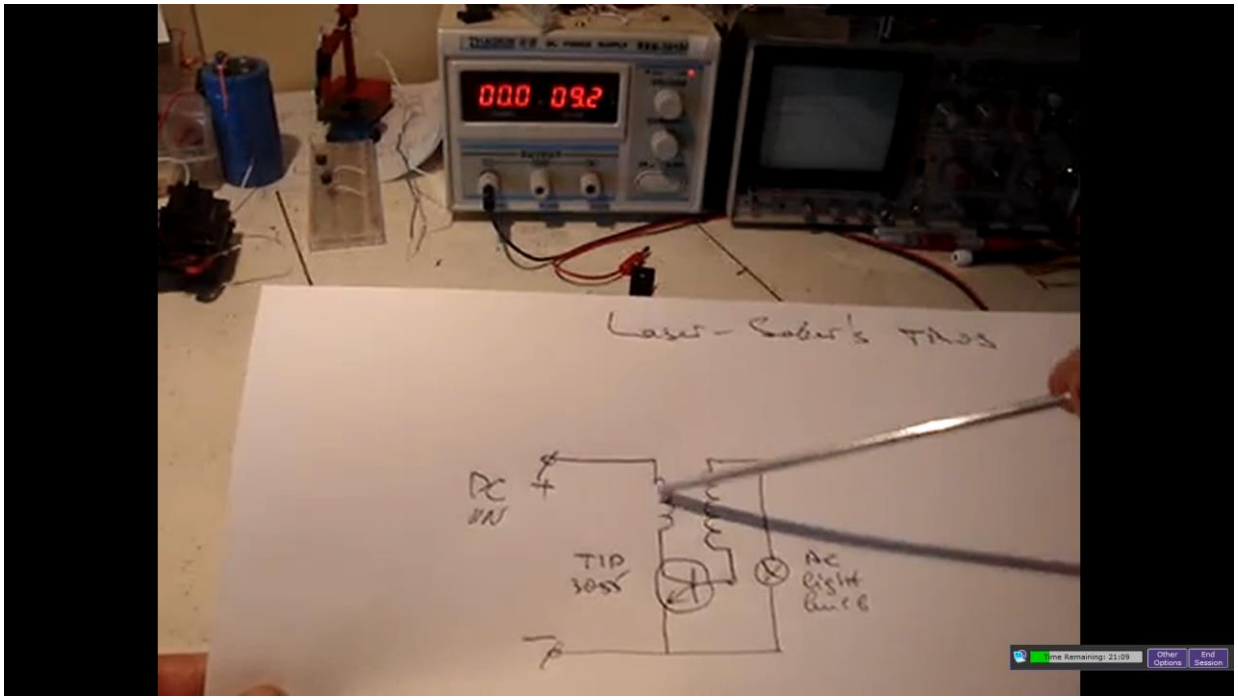
Video name:

Boostpack and solar panel;
http://www.youtube.com/watch?v=z0a-2Zcy-VI

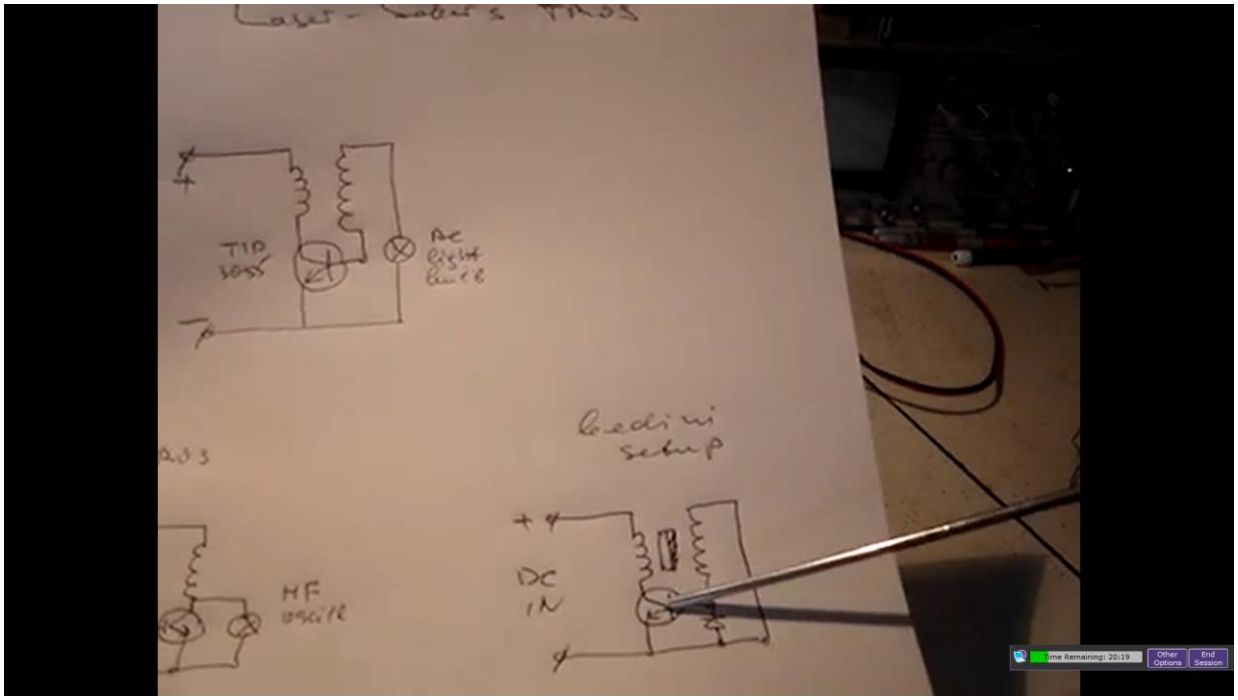


Oscillation using coils

Video for above:
https://www.youtube.com/watch?v=Ox63RvnlW08



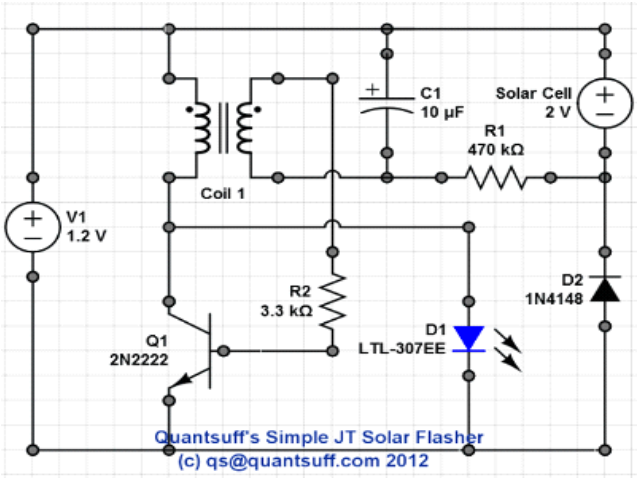
The 2 coils are torroid coils.
http://www.youtube.com/watch?v=0eWhB76toq0



Above is bedini osscilation with magnet in the center. at 1:40 mins into this video, shows a good amperage booster circuit using joule ringer. a joule ringer may boost amperage. http://www.youtube.com/watch?v=M3YWB-noPNoHow to build a starchip coil:
Starship Coil Charger

The 1N4007 Diode

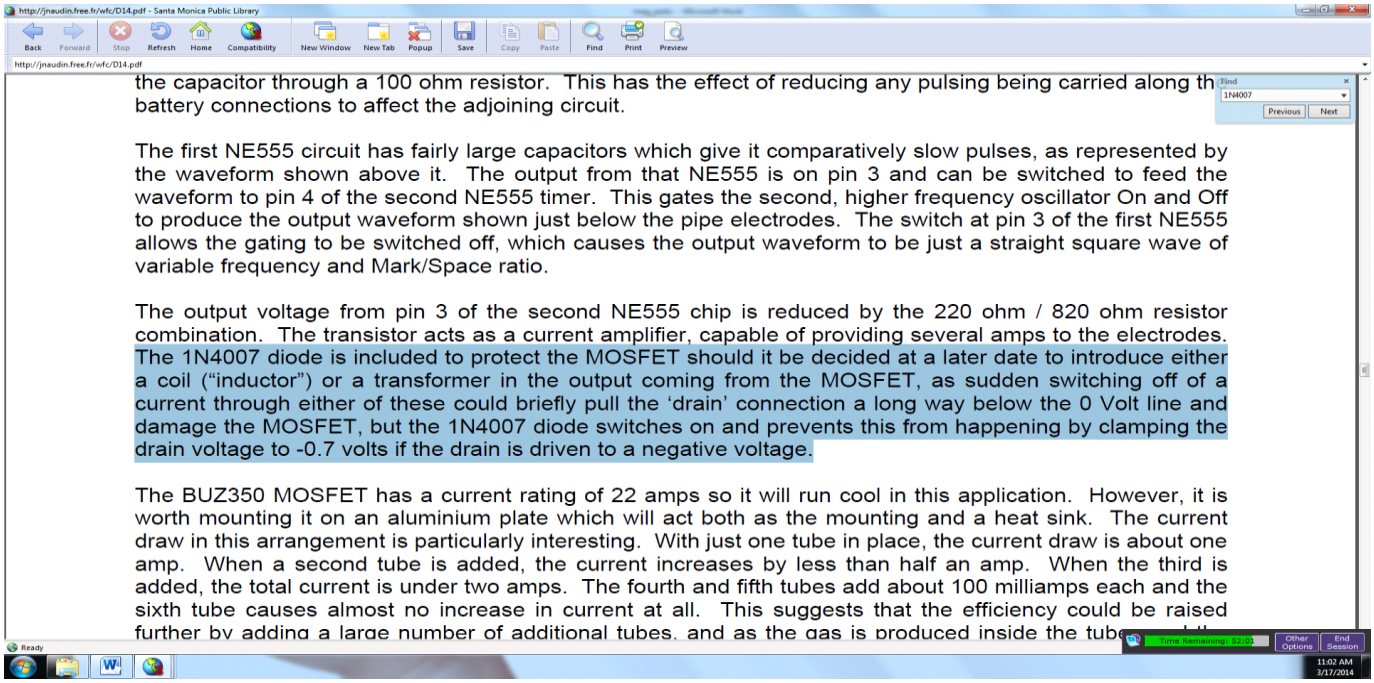
For more permanent installations, the circuit can be make to recharge a NiCd (or NiMH) battery by adding a Solar Cell that charges the battery through a simple diode (D2, 1N4148 or similar). The circuit will stay off for as long as it is bright out because the Solar cell's negative lead is attached to R1 and this pulls the Base of the transistor low to shut it off completely. The Solar cell can be any scrounged off a Garden Solar light that is capable of 2-volts at 20 to 30 milliAmps. With the components specified, it flashes once a second (if it flashes too quickly, increase R1 to 560K and/or add a 0.1uF from C1[-] to Ground) and it only requires 80mA to run for an entire night. A NiCd button cell or even a 10-Farad supercap is enough to keep it going.



Left image from:
http://quantsuff.com/LED2.htm

Used in squeeze flashlight: Parts: 1 small relay 24V (watch if the contact lever is useful), 1 magnet 8mm diameter 4mm thick, 4 diode's 1N4148 or 1N914, 1 LED, 1 resistor 47 ohm, 1 capacitor 1000 microfarad 16V and a piece of printboard.

When the transistor switches off, the coils try to pull the transistor Drain connection down to a voltage well below the 0-volt battery line. To prevent this, a 1N4007 diode is connected across the cell and its coils. The diode is connected so that no current flows through it until the transistor Drain gets dragged down below the 0-volt line, but then that happens, the diode effectively gets turned over and as soon as 0.7 volts is placed across it, it starts to conduct heavily and collapses the negative voltage swing, protecting the transistor, and importantly, keeping the pulsed waveform restricted to positive DC pulses, which is essential for tapping this extra environmental energy which is what actually performs the electrolysis. You can easily tell that it is the environmental "cold" electricity which is doing the electrolysis as the cell stays cold even though it is putting out large volumes of gas. If the electrolysis were being done by conventional electricity, the cell temperature would rise during the electrolysis. A John Bedini pulser circuit can be used very effectively with a cell of this type and it adjusts automatically to the resonant frequency as the cell is part of the frequency-determining circuit.



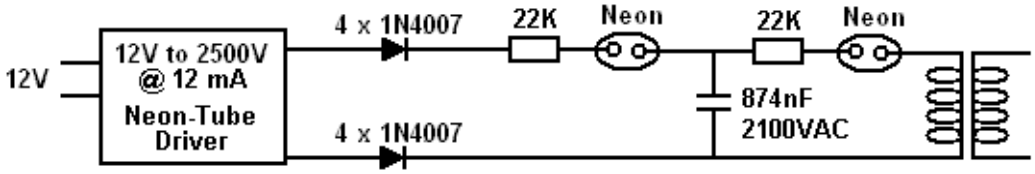
the capacitor through a 100 ohm resistor. This has the effect of reducing any pulsing being carried along th battery connections to affect the adjoining circuit.

The first NE555 circuit has fairly large capacitors which give it comparatively slow pulses, as represented by the waveform shown above it. The output from that NE555 is on pin 3 and can be switched to feed the waveform to pin 4 of the second NE555 timer. This gates the second, higher frequency oscillator On and Off to produce the output waveform shown just below the pipe electrodes. The switch at pin 3 of the first NE555 allows the gating to be switched off, which causes the output waveform to be just a straight square wave of variable frequency and Mark/Space ratio.

The output voltage from pin 3 of the second NE555 chip is reduced by the 220 ohm / 820 ohm resistor combination. The transistor acts as a current amplifier, capable of providing several amps to the electrodes. The 1N4007 diode is included to protect the MOSFET should it be decided at a later date to introduce either a coil ("inductor") or a transformer in the output coming from the MOSFET, as sudden switching off of a current through either of these could briefly pull the 'drain' connection a long way below the 0 Volt line and damage the MOSFET, but the 1N4007 diode switches on and prevents this from happening by clamping the drain voltage to -0.7 volts if the drain is driven to a negative voltage.

The BUZ350 MOSFET has a current rating of 22 amps so it will run cool in this application. However, it is worth mounting it on an aluminium plate which will act both as the mounting and a heat sink. The current draw in this arrangement is particularly interesting. With just one tube in place, the current draw is about one amp. When a second tube is added, the current increases by less than half an amp. When the third is added, the total current is under two amps. The fourth and fifth tubes add about 100 milliamps each and the sixth tube causes almost no increase in current at all. This suggests that the efficiency could be raised

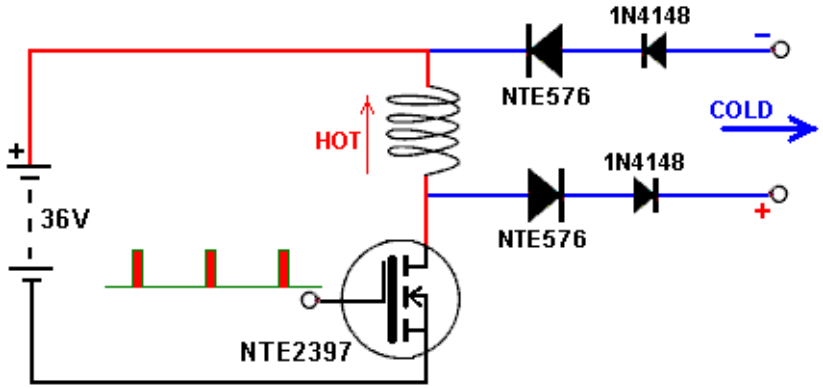
There is a most impressive video and circuit shown here where a very simple arrangement produces an immediately successful performance for the front end of Don's circuitry. The circuit appears to be:



Here, a simple Neon Sign Transformer module which has no earth connection, is used to produce a 2.5 kV voltage with a frequency of 25 kHz and a maximum output current capacity of 12 mA. There is no difficulty in constructing the equivalent to that power supply unit. The two outputs from the module are converted to DC by a chain of four 1N4007 diodes in series in each of the two outputs (each chain being inside a plastic tube for insulation). Interestingly it's very similar to how i have been driving coils before, i always use an 1n4007 across my pulsed coil, i use a fet driver to drive the fet, the difference i can see is a transformer and capacitor in series with the load & diode.

The 1N4148 Diode

The two "1N4148" diodes are there to make sure that when the Mark/Space 47K variable resistor is adjusted, that it does not alter the frequency of the output waveform in any way. Very surprisingly, it is recommended that the powerful high-speed diode used to channel the cold electricity out of the circuit, be followed by a small 1N4148 silicon epitaxial planar high-speed diode (75V 0.45A) as this is said to clean up the cold electricity output even more. It is important that the cold electricity has to encounter the more powerful silicon diodes before reaching the 1N4148 diodes, so the order of the diodes is very important, and should be as shown here:

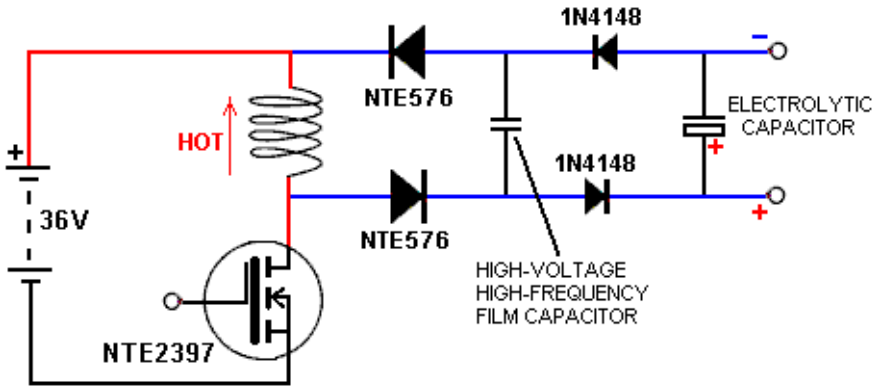


conventional hot electricity.

Alternative diodes for the NTE576 (6A, 35nS, 400V) are the NTE577 (5A, 70nS, 1000V) and the HFA16PB (16A, 19nS, 600V). The main requirement is high-speed operation, voltage rating of at least 400V and current rating of at least 5 amps..

There is one additional thing to be done with this circuit when a DC output is required and that is to apply filtering to the output. First, when the energy has passed through the NTE576 (or equivalent) power diodes, it encounters a high-frequency (low capacity) high quality film capacitor placed across the output in order to siphon off any high-frequency voltage ripple before it is passed through the small 1N4148 diodes and into a smoothing and storage electrolytic capacitor. Storing the cold electricity in the electrolytic capacitor converts it into

While this circuit (shown below) looks like something which you just switch on and it works, that is not the case as there is an essential start-up procedure where the signal applied to the transistor started at just a few cycles per second and 50% duty cycle and that input is then adjusted carefully and slowly while monitoring the voltages and currents produced by the circuit. This is a seriously powerful system with the capability of producing a major power output.



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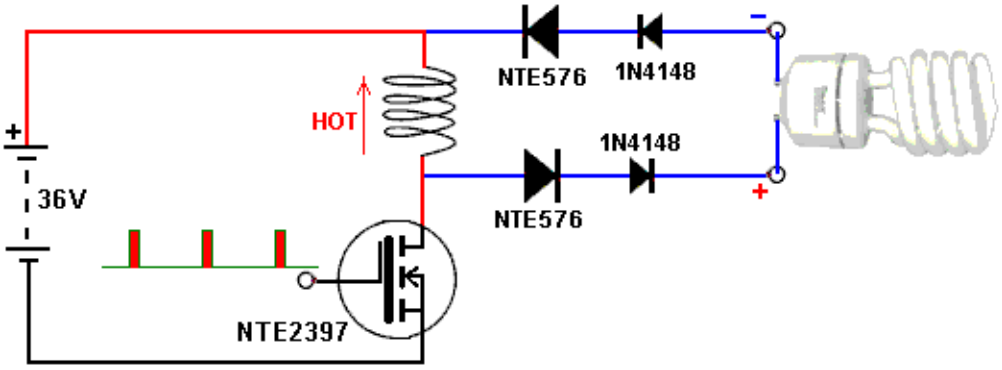
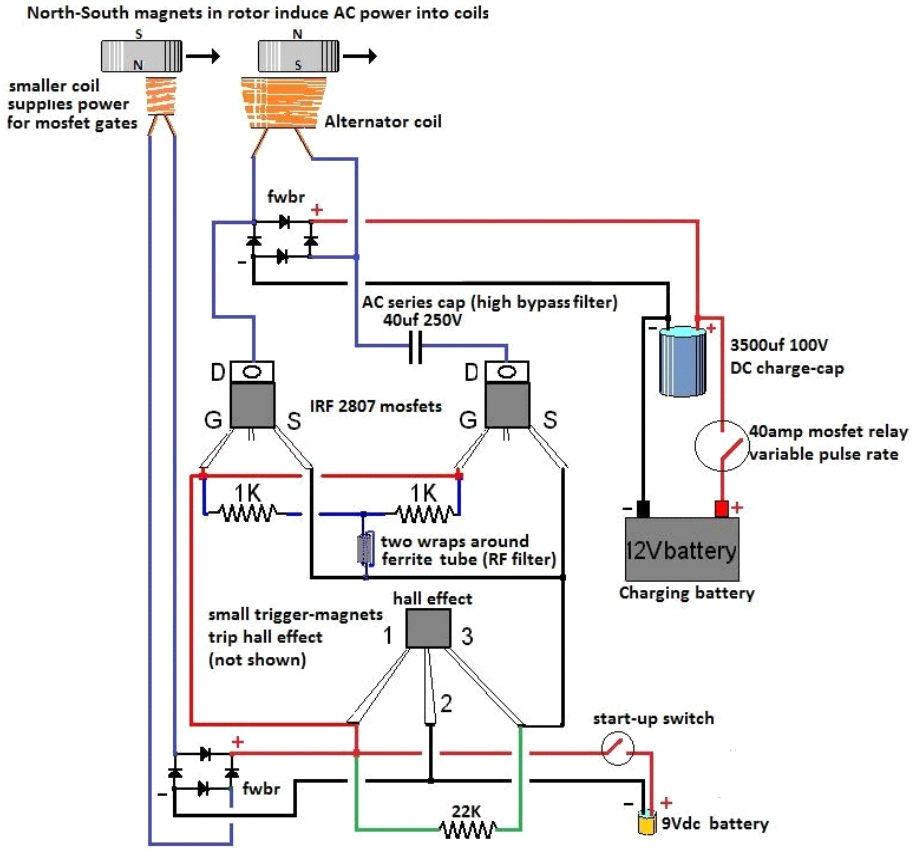
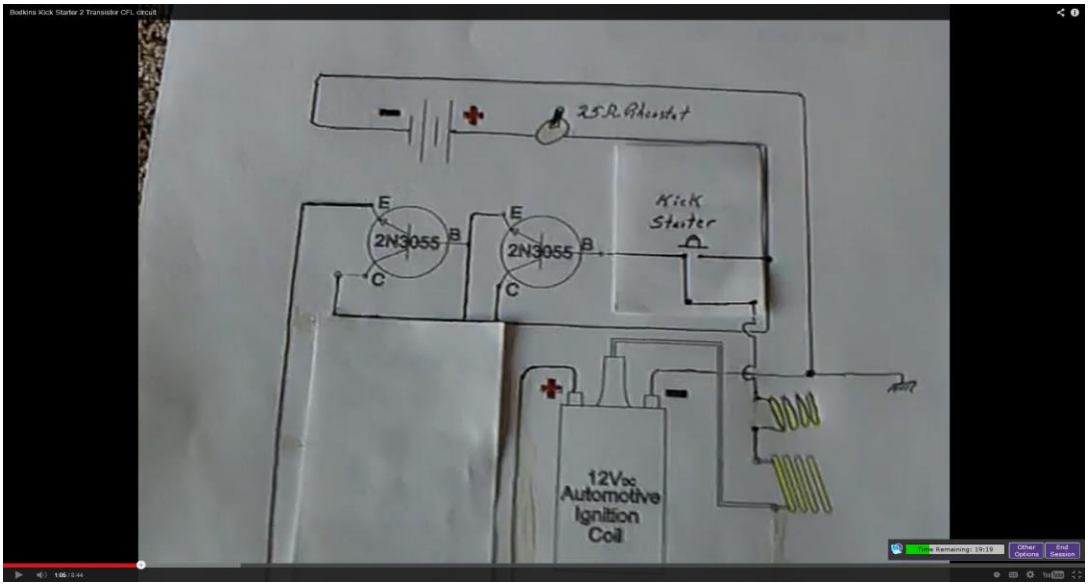


It is very important that the circuit is not powered up without a suitable load on the cold electricity output. A suitable load is a self-ballasted 230-volt fluorescent light. It must be understood that just flipping the power switch to it's ON position is not sufficient to get an inflow of cold electricity. Instead, it is necessary to progress the start-up sequence carefully, and a fluorescent light is particularly helpful for doing this although a neon bulb is also a popular choice of temporary load, because these devices allow the current flow in the load to be assessed visually.



Ambient Energy Collector based on the MEG principles. This layout is by Ismael Aviso who uses it to drive a car. Use pulses as short as possible in "kicking" coil, because the displacement current depends on the speed of the changes in the magnetic field. Subjecting a ferromagnetic to a short electromagnetic pulse even without an external magnetic field, causes the acquisition of spin precession (domains will have group behaviour, and so ferromagnetics can easily be magnetised).

The 2N2222 Transistor

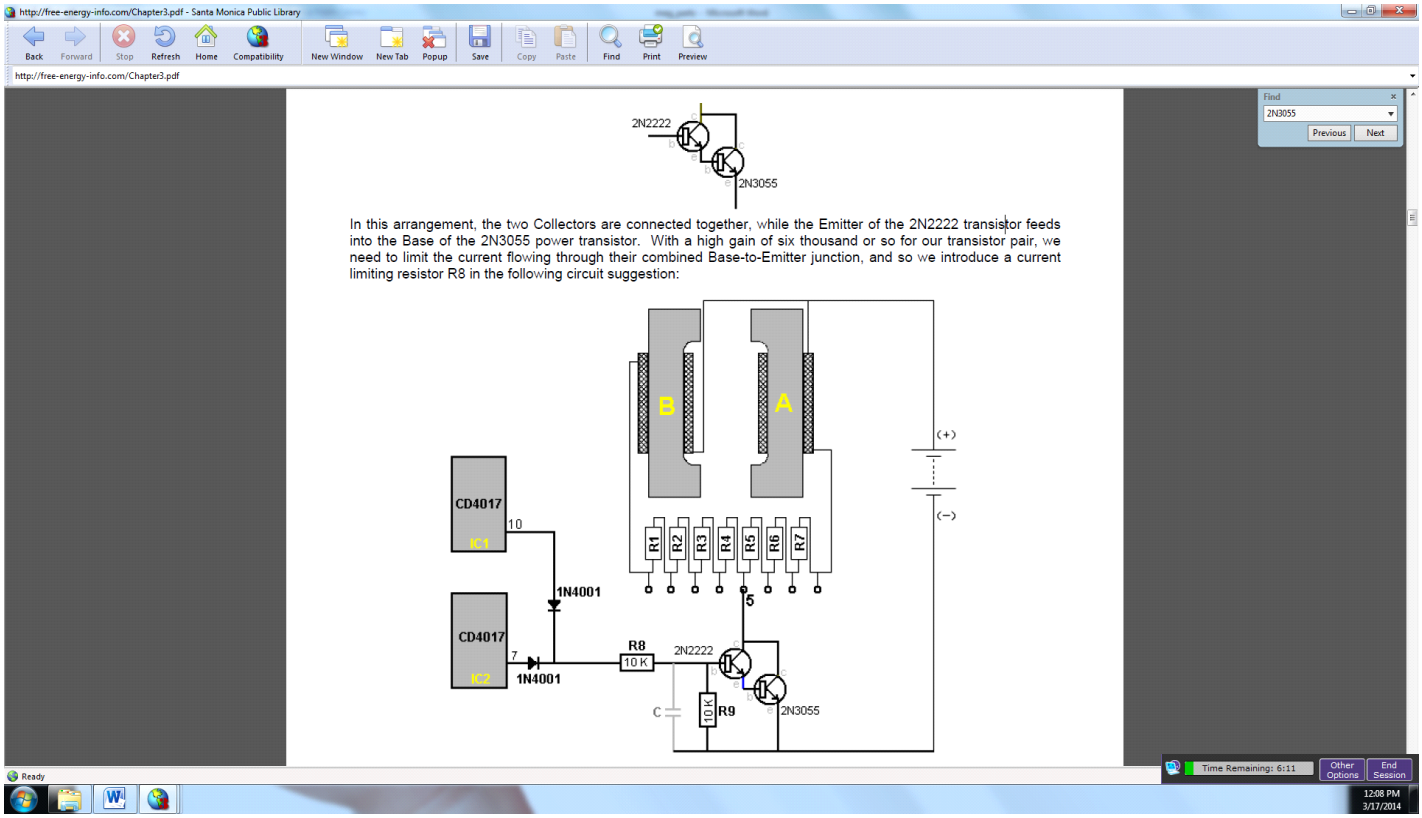


Video for above: Uses 2N3055 transistor

http://www.magistrala.cz/freeenergy/2008/11/29/bodkins-kick-starter-2-transistor-cfl-circuit/

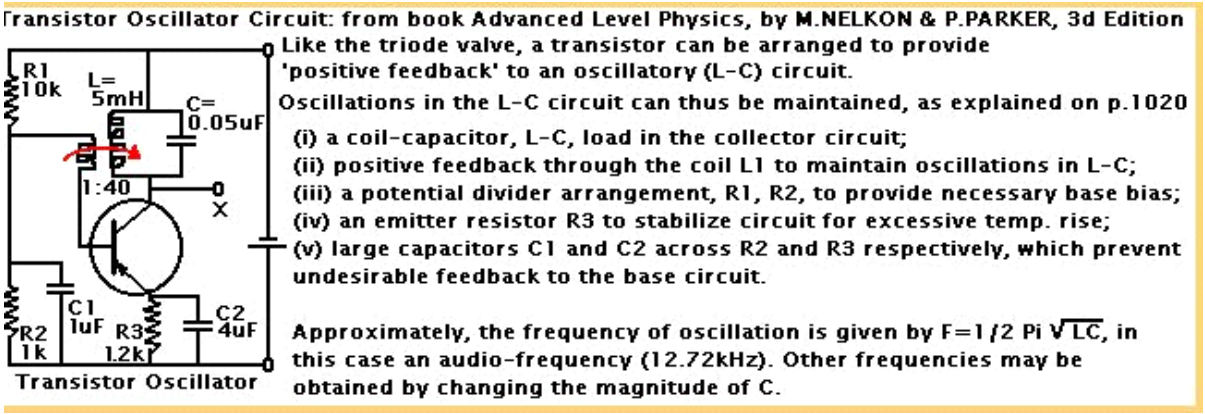
Video Title: Bodkins Kick Starter 2 Transistor CFL circuit. As the transistor has to carry the current which passes through the electromagnets, it needs to be able to handle considerable current flow. The very common 2N3055 transistor can do that (as can many other suitable transistors). The switching rate is very, very slow for a transistor and so speed is not an issue. The voltage is very low, and so that is not an issue either and so the 2N3055 transistor (used in joule ringer) is definitely a possible choice. In common with most high-power transistors, the current gain is low being between 20 and 30 typically. That means that to switch it on properly, a current of one twentieth of the switched current has to be fed into the base of the transistor. That base current is too high to be convenient, so we can raise the transistor gain to around 6000 by adding in a

low-power transistor such as the 2N2222 transistor. The two transistors are connected together in a configuration called a 'Darlington Pair' which looks like this:



In this arrangement, the two Collectors are connected together, while the Emitter of the 2N2222 transistor feeds into the Base of the 2N3055 power transistor. With a high gain of six thousand or so for our transistor pair, we need to limit the current flowing through their combined Base-to-Emitter junction, and so we introduce a current limiting resistor R8 in the following circuit suggestion as shown above.

The 10K resistor value shown would limit the transistor current to about nine amps, while a 4.7K resistor would allow around eighteen amps. Each transistor pair is only on for one eighth of the time, but the 2N3055 transistors need to be mounted on a heat-sink. If a single metal plate is used as a heat-sink for all eight 2N3055 transistors, then mica washers (available from the supplier of the transistors) must be used between each transistor and the plate because the Collector of each 2N3055 transistor is it's metal case and in this circuit, the Collectors do not connect to a common point. The mica washers pass heat but not electricity. Separate heat-sinks can, of course, be used.
3 – 27 The capacitor "C" in the above circuit diagram will probably not be needed. The switching needs to maintain a constant current flow through both electromagnets. I would expect the 4017 chip switching to be fast enough to allow this to happen. If that proves not to be the case, then a small capacitor (probably 100nF or less) can delay the switch-off of the transistors just long enough to allow the next transistor in the sequence to be switched on to provide the required 'Make-Before-Break' switching.

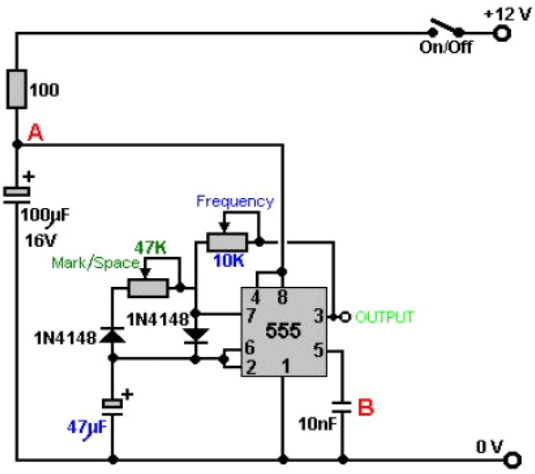


Above image from:
http://tesla3.com/free_websites/zpe_bedini_solid.html

100 OHM resistor

In this rather unusual circuit, the rotor winding of an alternator is pulsed via an oscillator circuit which has variable frequency and variable Mark/Space ratio and which can be gated on and off to produce the output waveform shown below the alternator in the circuit diagram. The oscillator circuit has a degree of supply de-coupling by the 100 ohm resistor feeding the 100 microfarad capacitor. This is to reduce voltage ripple coming along the +12 volt supply line, caused by the current pulses through the rotor winding. The output arrangement feeding the pipe electrodes of the electrolyser is copied directly from Stan Meyer's circuit diagram.

This is the section of the circuit which does this:



The 100 ohm resistor and the 100 microfarad capacitor are there to iron out any ripples in the voltage supply to the circuit, caused by fierce pulses in the power drive to the electrolysis cell. The capacitor acts as a reservoir of electricity and the resistor prevents that reservoir being suddenly drained if the power supply line is suddenly, and very briefly, pulled down to a low voltage. Between them, they keep the voltage at point "A" at a steady level, allowing the 555 chip to operate smoothly.

The very small capacitor "B" is wired up physically very close to the chip. It is there to short-circuit any stray, very short, very sharp voltage pulses picked up by the wiring to the chip. It is there to help the chip to operate exactly

I adjusted the charging/discharging cycle of the capacitor at around 2 seconds of charging and 1/3 second for discharging. Resistor values: R1 = 100 Ohm ; R2 = 34 kOhm (50 kOhm potentiometer)

The negative lead out of the battery is going through a 100K ohm resister.

his exciter is being excited through this one hundred K OHM resistor and causing spatial energy coherence via this.

For above text see:

http://beforeitsnews.com/free-energy/2011/05/stifflers-space-energy-coherence-lights-up-608098.html (which is an ambient energy collector using a battery)

100 ohm variable resistor can also be made available. Wire wound ones last better due to high temps and voltages.

This combination: Toroid, 100 ohm, 2N3055 transistor is used to make a joule thief.

Using diodes and transistors as solar cells
http://hackaday.com/2012/04/13/using-diodes-and-transistors-as-solar-cells/

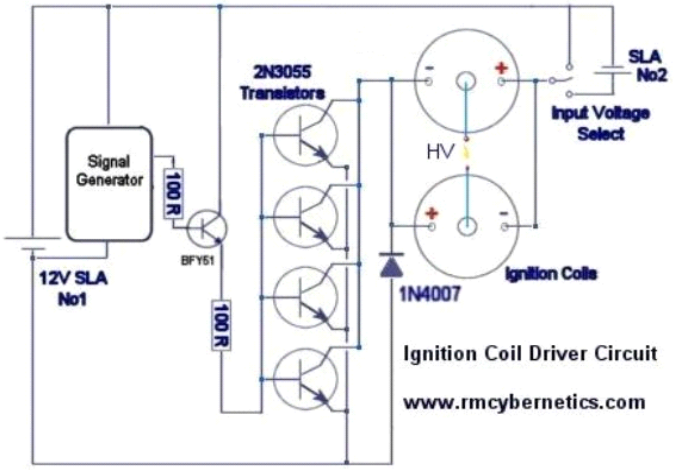
2N3055 Transistor:

Using Bedini patent below is the connections
2n3055 transistor
trigger coil start to 680 ohms 1/4 w to base and end to + supply
coil 2 start to + supply end to C of TRAnsistor 1 then to a diode to Battery 1 charge
Coil 3 start to + SUPPLY AND END TO c transistor 2 then to a diode to battery 2
e to c have 1n4007 diode instead of 18 k
b to c 10 k 1/4 w
Min2oly has a sketch made in energy science forum sg oscillator thread by bedini, think i will change to this one as my present build had steady output wihout the variable pot for testing
since im using sla and solar instead of bench power supply , I will change to alum battery to have conclusive result
my coil 18 ga trifilar twisted is for heavy duty purpose 30 meters, think u can use 23 ga 40 ft for small batteries

RC1 is used to help suppress high voltage spikes that can destroy the power transistors.

T2 represents two power transistors connected in parallel and mounted on a heatsink.

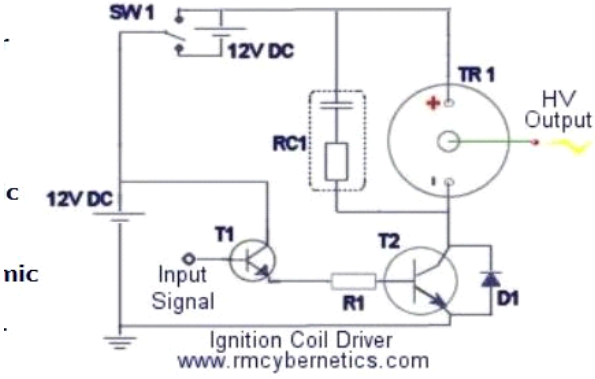
This next circuit is designed for a higher powered output. Two ignition Coils are connected in parallel but with o
This means that the output voltages of each coil are out of phase or opposite to each other (when one is positiv
negative). Using this configuration the output is taken from the two coils output terminals, whereas the circuit a
output terminal and ground.



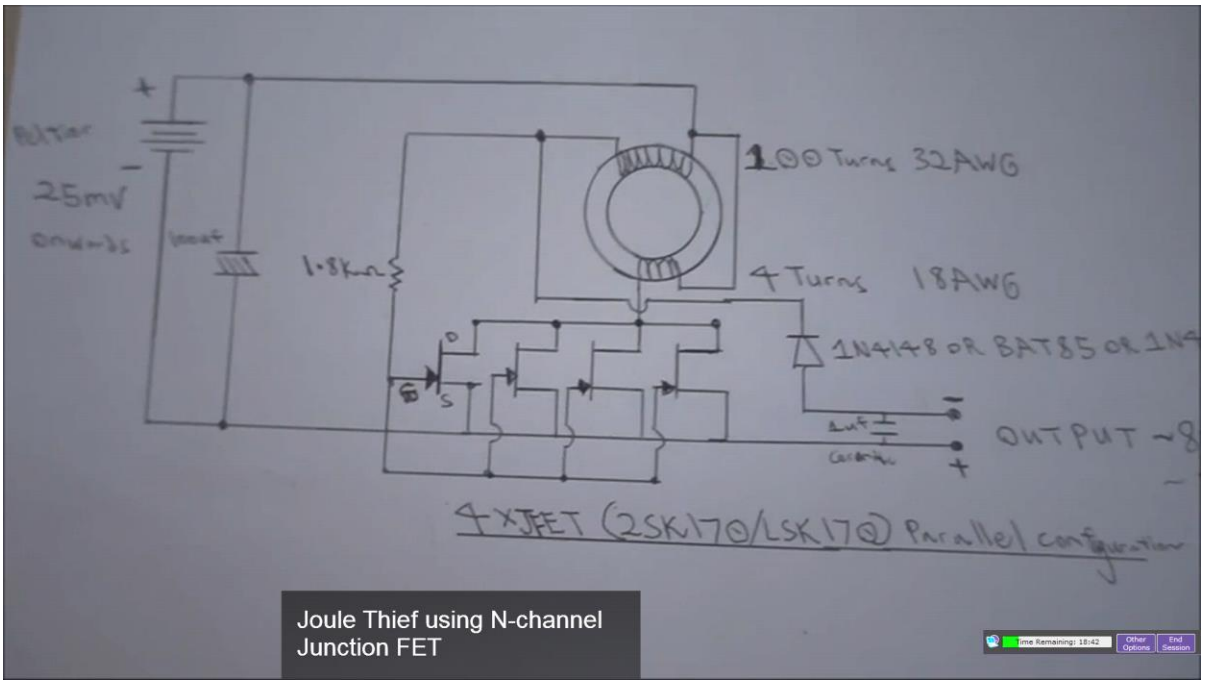
WARNING: High Voltage is generated by this device!

Standard ignition coils can be obtained from most car parts stores for around £25. It is not essential to use two 12V batteries like shown in the circuits shown below, but it will allow you to obtain bigger sparks. We have some compact induction coils available for sale for under £20. Click the link to check stock.

This driver circuit is based on the commonly used 2n3055 transistor due to it high power switching capability. While these are cheap and high temperature tolerant, they are susceptible to voltage spikes caused by the inductive nature of the load (ignition coil). Pretty much any power transistor, IGBT or MOSFET can be used in this circuit as long as it is rated for at last 5A and 100V. Ones with higher voltage ratings will be less likely to be damaged by spikes. Further protection methods are outlined lower down this page and in the comments. If you use a MOSFET or IGBT instead of a bipolar transistor like the 2n3055, you should also add a pulldown resistor of about 10k between the base/gate pin and GND.



TR1	Ignition Coil
T1	BFY51 Small Transistor
T2	2n3055 Power Transistors or HV MOSFET or IGBT
R1	100 Ohm Resistor
D1	1N4007 will do but preferably a Schottky Diode
RC1	0.1µF Capacitor + 10K Resistor



The left uses body heat to boost voltage up to 8 volts.

Link for above:

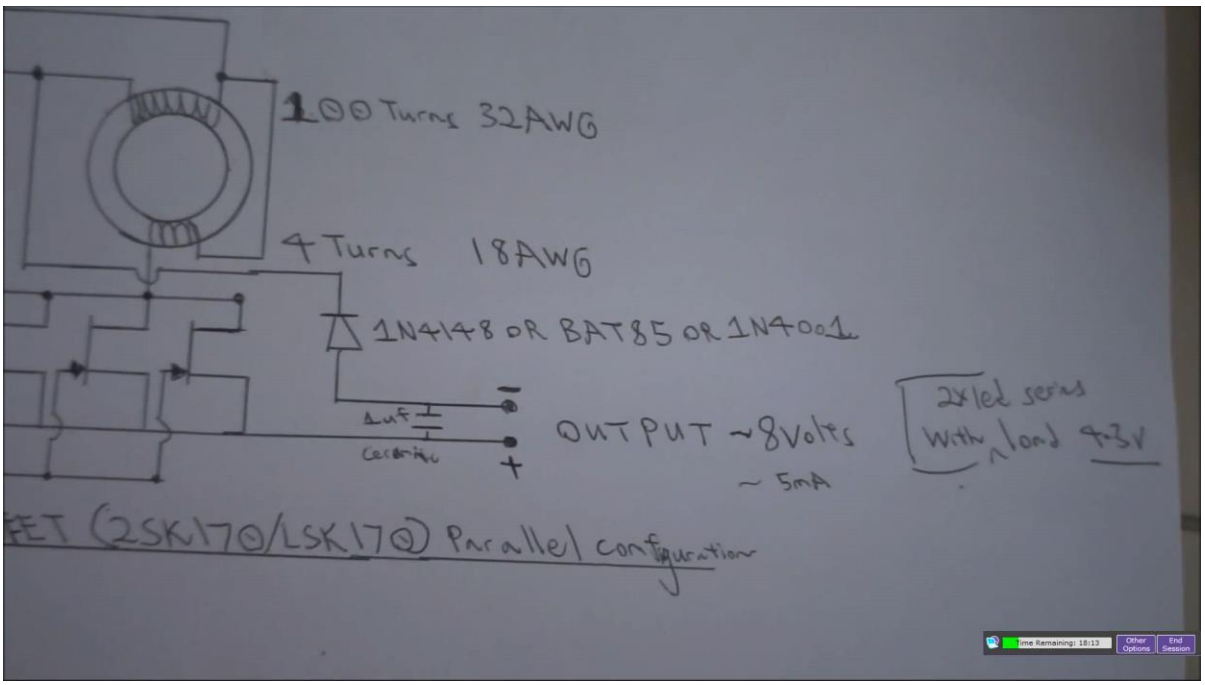
http://www.youtube.com/watch?v=Fzww6yPQMrg

Video Name: Ultra lowest 25mV self starting Joule Thief ver1.0-Free Energy

Interesting circuits:

http://quantsuff.com/LED2.htm

http://www.neazoi.com/xtalpage/



http://www.youtube.com/watch?v=8aXAAO2f1U8