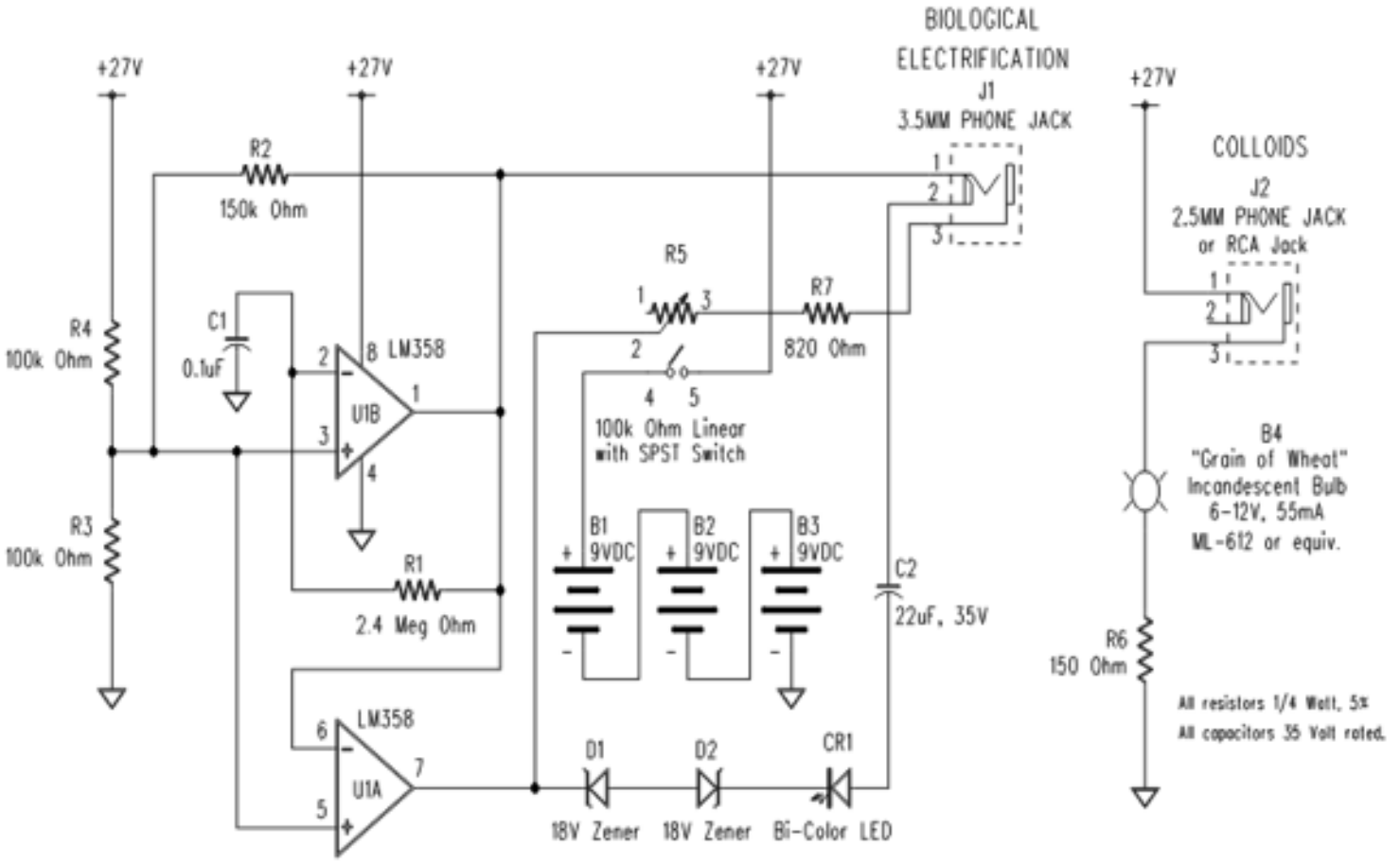
Build Your Own Beck Blood Electrification and Ionic Colloidal Silver Device

IMPROVED SCHEMATIC by Bob Beck

This November 24, 1996 page describes a "Plant Growth Stimulator" improved since my 1991 design. User-tested for over two years, it is solid state (no relays), uses three (not seven) batteries, makes colloids, is much smaller, lighter, silent, with battery saving features.



The first section (U1B) of the LM358 dual op-amp is a 54 (2 x 27 Volts peak per cycle) volt peak-to-peak square wave oscillator. The second section (U1A) reverses polarity and provides ±27 Volts DC output of low impedance. This

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delivers a Bi-Phasic, sharp rise-time output of ~4 Hz (not critical) for the biological cotton-covered stainless-steel (or gold-plated) electrodes saturated with salt water before applying. Sharp rise-time is considered necessary to provide higher odd harmonics to the stimulus, although "rounded" waveforms will feel different.

The third section is a current-limited 27 Volts DC output from a separate RCA (or 2.5mm) jack for rapid generation of excellent ionic colloidal silver in water. A three minute cycle in 8 Oz. of room-temperature water makes a ~3-5 PPM concentration.

Op-amp section U1B's 4 Hz oscillator frequency is set by C1 (0.1 uF) and R1 (2.4 meg Ohm). It is configured as a comparator with hysteresis determined by R2 (150 k Ohm). Charging and discharging of C1 is done by the 180° out-of-phase signal through R1. R3 and R4 provide a set-point 1/2 the V+ to the comparator. This insures a 50% duty cycle square wave with an amplitude of slightly less than the ~27 Volt supply.

U1A, the second comparator, is used to invert the output of oscillator U1B. A ~54 Volt peak-to-peak signal will be generated between the op-amps due to their outputs being 180° out-of-phase. U1A's current is limited by potentiometer R5 (100 k Ohm) and R7 (820 Ohm) and is set to individual user's comfort.

The power indicator circuit consists of a bicolor (Red-Green) LED (CR1) and the series combination of two 18 Volt Zener diodes, D1 & D2, with power limited by C2 (22 uF, 35 Volt). This section of the device is automatically disabled when the 3.5 mm plug is inserted into its jack. Therefore the LEDs flash only when batteries sum is over ~21 Volts. If LEDs are dim or extinguished, replace with three fresh 9 Volt Alkaline batteries. C2 used as a limiter allows the LED to flicker on at 1/8 second intervals only as the square wave output reverses polarity.

Users find this newer design highly satisfactory, trouble free and most efficient.

IMPROVED SCHEMATIC - Parts List

PROPOSED THEORETICAL IN-VIVO BLOOD, HIV, PATHOGEN, PARASITE AND FUNGI NEUTRALIZING DEVICE

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Note: These data are for theoretical, informational and instructional purposes only and are not to be construed as medical advice. Consult with your licensed medical practitioner. Hundreds have been built successfully if duplicated exactly as shown.

PART	PART NAME
U1	LM358 CMOS Operational Amplifier (OP-AMP) chip (generic)
R1	2.4 (or 2.2) meg ohm ¼ watt 5% resistor
R2	150 k ohm ¼ watt 5% resistor
R3, R4	100 k ohm ¼ watt 5% resistor
R5	100 k ohm linear taper pot, ½ watt Caltronics P-68
R6	150 ohm ¼ watt 5% resistor
R7	820 ohm ¼ watt 5% resistor
C1	0.1 uF 50 V (or higher) ceramic capacitor
C2	22 uF 35 V (or higher) electrolytic capacitor
D1, D2	18 Volt Zener diodes (NTE5027A), ½ Watt
B1	Bulb: 6-12V @ 55mA or, 6.3V @ 0.075 A, Type ML612 or 7377
LED 1	Bicolor LED Red/Green, RS# 276-012
J1	Jack for electrode leads (3.5mm or 1/8" mono-phone jack), RS# 274-251 3/
J2	Jack for silver wire leads (2.5mm or 3/32" mono-phone jack), RS# 274-292 3/
	3 Alkaline 9 V batteries, type 1604 etc.
	3 x 9 V battery snaps (clip-on connectors), RS# 270-325
	Misc. wire, solder, etc.
	Box, if used
	Bread-board, if used
	8-Pin I.C. Socket, if used
	Lead wire with 3.5 mm plug, 6 ft., Mouser or Calrad Electronics
	Electrodes, stretch elastic, Velcro, cotton flannel, alligator clips, etc.

All components listed above, check your local electronics store.

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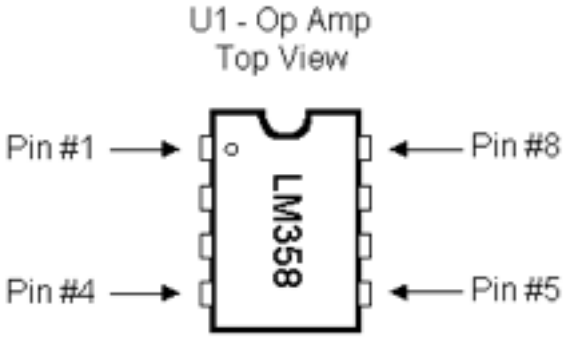
Special Notes:

Ensure the IC chip U1 (LM358) is wired correctly. The location of Pin #1 is shown at Left.



For more information … Books & DVDs

Electricity for Health in the 21st Century is a booklet that can be read online or downloaded. This booklet offers an entertaining look at the electrical nature of the body.

The Beck Protocol Handbook includes Bob Beck's original papers describing the four parts of the Beck Protocol and how to build your own units .

The Beck Protocol DVD Set includes two DVDs. One is an Introduction to the Beck Protocol with Bob Beck, health practitioners and testimonials from those who have used the protocol. The other, How to Use The Beck Protocol answers all your questions on the use of microcurrents and all parts of The Beck Protocol.

The Brain Tuner Audio Lecture available on-line. Dr. Beck tells the fascinating story of the development of the Brain Tuner. Includes: The History of CES Technology. The Story of Bob Beck's Discoveries and How to Use the Brain Tuner

To purchase the Beck Protocol units we recommend www.sota.com as this is the company that Bob Beck endorsed.