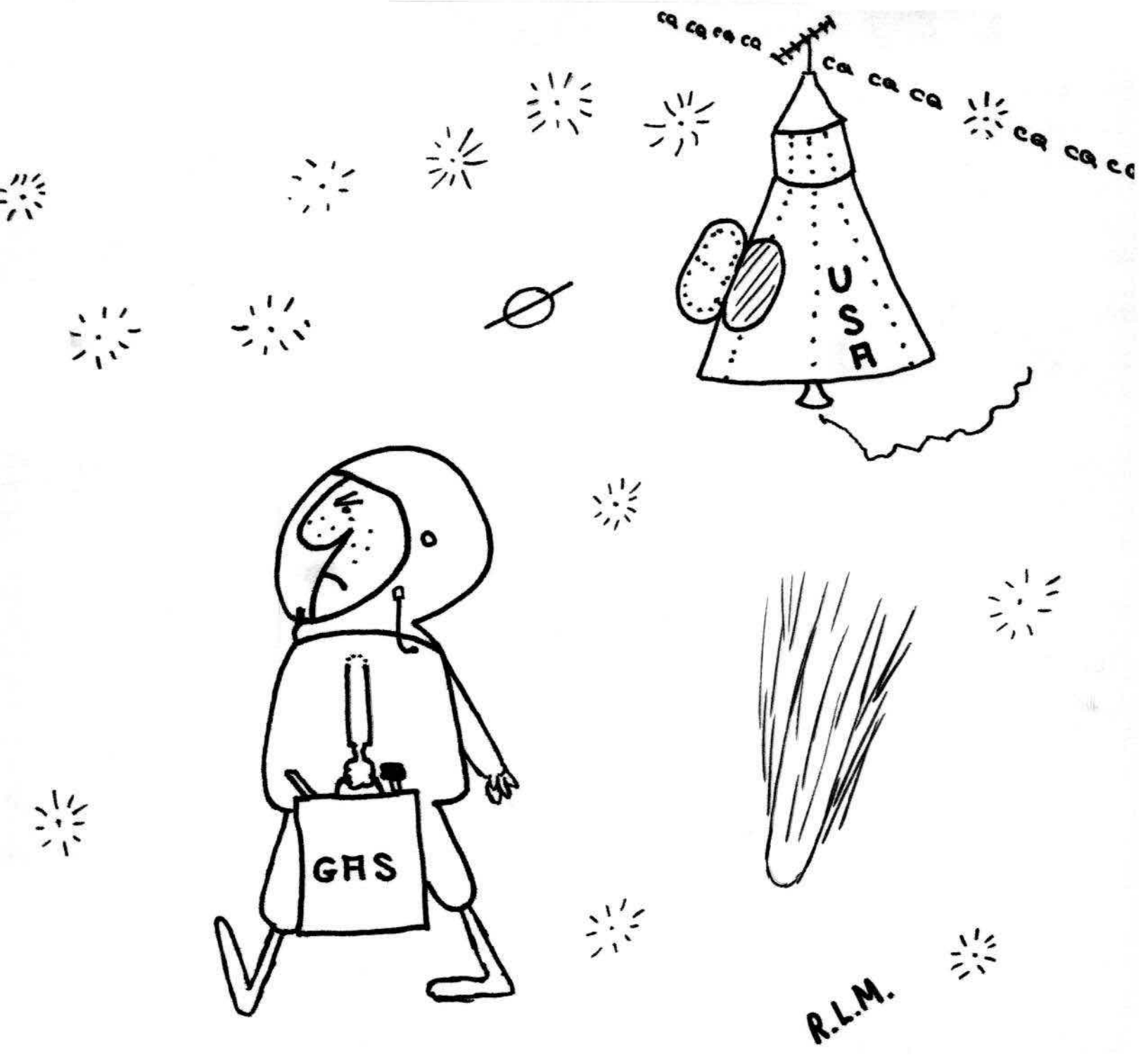




VOL. XVII, NO. 3

ORANGE COUNTY AMATEUR RADIO CLUB

MARCH 1976



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	ERNIE FUERTE	WA6GXV	838-7017

EDITOR	BOB MALLER	WB6AJV	832-6170
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Meeting: Third Friday of each month at Mercury Savings and Loan, 1095 Irvine Blvd, Tustin, CA at 7:30 pm.
(see below for special location of March meeting).

Nets: Wednesday, 7:00 pm. 21.175 MHz CW, and 8:00 pm. 21.375 MHz. SSB. All stations are welcome to check in.

Breakfast: First Saturday of each month, 8:30 at Barnabys Coffee Shop, 144 S. Tustin Ave, Orange CA (So. of Chapman).

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CALLBOOK SERVICE

The club has copies of the latest U.S. and foreign callbooks which are available at each meeting. Also you can contact Ken Konechy - W6HHC at home (541-6249) on Monday and Friday evenings between 7PM and 9 PM if you need addresses. If you have more than one call for Ken to check, he'll get them all and call you back the same night. Also, you can usually catch Ken on the air after the Wednesday evening club net.

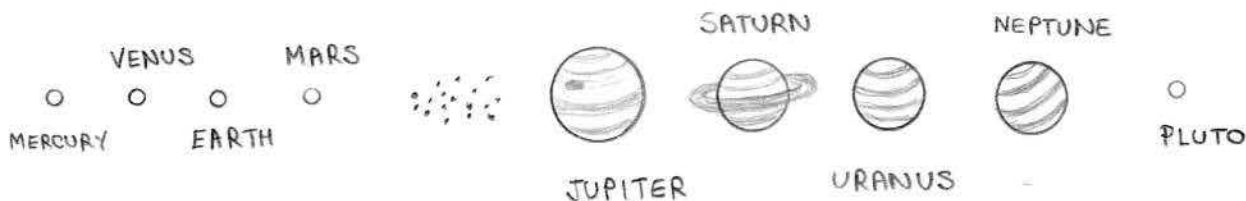
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THIS MONTH'S MEETING

The March meeting will be held in the Planetarium Classroom at Garden Grove High School. There, Bob Evans - WB6IXN - will present a program about an imaginary trip to the planets. Could we land on Jupiter right now? How thick are Saturn's rings? How old will we be in Mercurian years? How can we prevent loss of bone calcium in a weightless environment? Get the answers to these and many other interesting questions as we move from our terra firma of planet earth, to more exotic worlds in the solar system!

Look below "SANDI'S CORNER" for a map to guide you to the planetarium classroom.

THE SUN



THE PREZ SEZ:

Our March meeting will be held at the Garden Grove High School Planetarium and will be presented by Bob Evans, WB6IXN. As a lot of you know, Bob puts on a very interesting program, so we expect a good turnout. I hope that everyone gets the word that we will be at the Planetarium and do not show up at the Mercury Savings & Loan this month.

I was impressed, and I hope others were, with our February program on A.T.V. I thought Jim, WB6FXG, and Glenn, WA6GNB, did an outstanding job with their demonstration. It was disappointing that conditions were at their worst as far as actually receiving a good signal, but they backed their program up in a real smooth manner. The only problem was with me, personally, in that now I have another mode to get involved in. (Anyone know where I can get hold of a camera cheap?). The fun, as far as I'm concerned, is that I know so little about A.T.V. that anything I learn will be progress, and it will enrich my hobby. If nothing else, I got acquainted with some fine people, WB6FXG and WA6GNB; and isn't that a part of amateur radio?

This looks like a good place to close----so, see you in the "stars".

"73's"

Martin, WB6PEX

.....

VISITORS LIST FROM THE FEBRUARY 20TH MEETING.

Ewald G. Hippe	WB6DQW	3701 S. Van Ness Santa Ana	92707
Harry N. Bullard	WA6VZO	6241 Hillside Drive Yorba Linda	92686
Fred Dominguez	WB6NVK	10311 Sherwood Circle Villa Park	92667
Ben Onstenk	W6QWZ	19350 Ward St. #34 Huntington Beach	92646
Gerhard Berg	DJ6FM	Keplerstr. 15 Sandhausen, West Germany	
Al Watts	W6IBR	6722 Bestel Ave Westminster	92683
Dave Browers	WB6RVM	9902 Chanticleer Anaheim,	92804
Monte K. Nichols	W6RHL	6516 San Haroldo Way Buena Park	90620
Paul Taylor	WA6ENT	1201 So. Halladay St. Santa Ana	92707
Don Barnes	WB6ZTN	8092 Slater Ave Huntington Beach,	92647
Nathan (Nate) Hooker	WA6MPI	1809 S. Garnsey Santa Ana	92707
Dave Yearwood	Ex K6EWQ	8851 Enloe Avenue Garden Grove	92644

SANDI'S CORNER

Hope everyone had a nice Valentine Day. I spent the afternoon on 10 meters getting my ten-ten number. To my suprise I met several of the hams I had worked on 10 meters earlier at our annual YL Valentine Banquet that evening.

We can fill in the question marks on Mary Ann's call: it is WN6IRR. Next thing you know she will change that N to A or B. Kathy who is Jay's (WA6MOK) XYL is still waiting for her novice call. Nice going girls.

Now that Bob - WB6AJV - received his advanced ticket in the mail, the big DXer's are going to have to make room for him on the honor roll very shortly.

After 2 weeks in the hospital Harold - WB6BJO - is home recovering. Soon we will hear his cheerful voice again. We sure missed him on the net.

From a back issue of our newspaper I found several definitions of RF. They are: Relaying Facts, Redeeming Features, Real Friends, Rosey Future, Radio Frequency. Can you add any more????

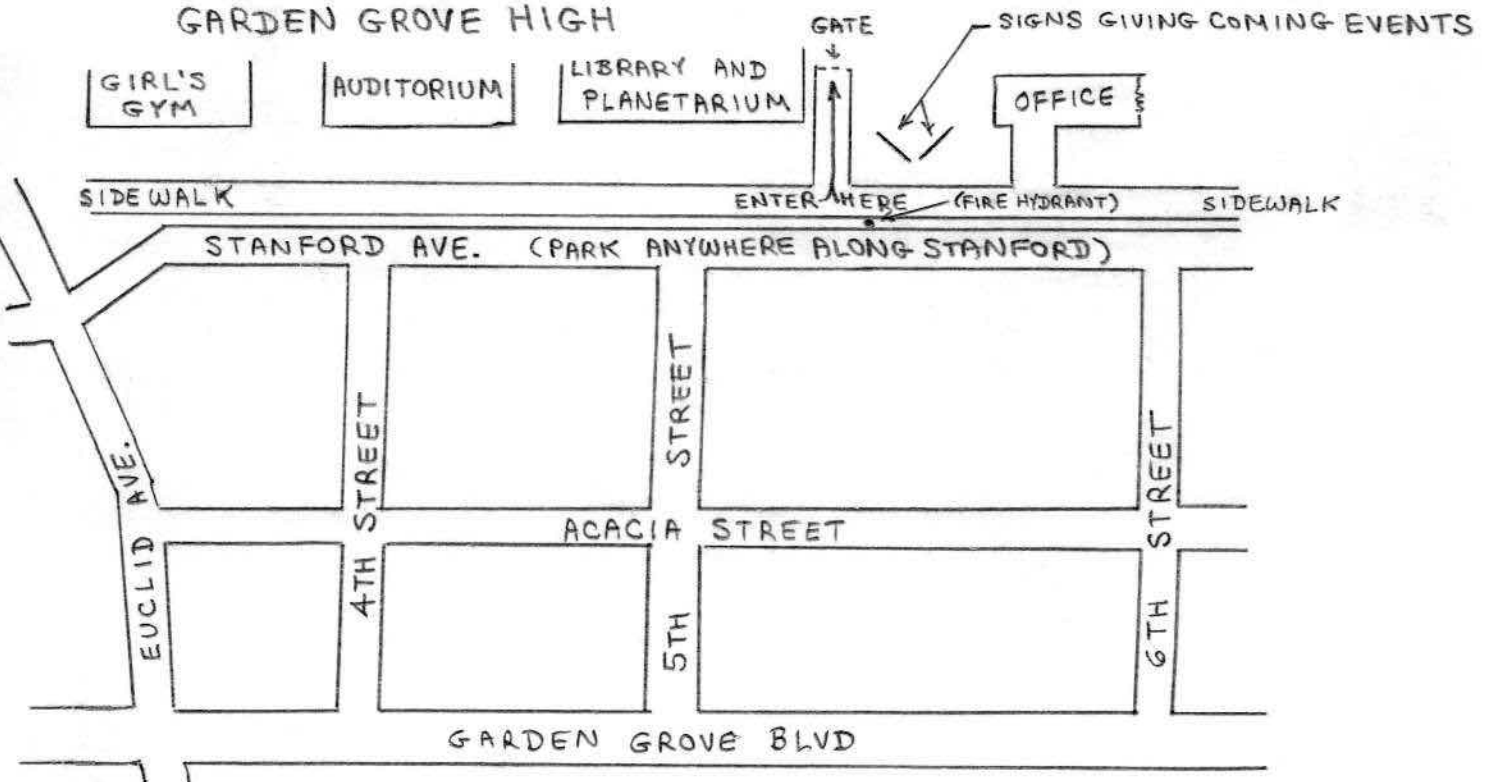
Congratulations are in order for Dick WA6TCB for receiving last month's Station Appearance Award from World Radio News.

Until next time, "Don't let the stars get in your eyes". I guarantee the stars will be out for those who come to the next meeting.

Sandi, WA6WZN

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GARDEN GROVE HIGH



Please!! No smoking in the Planetarium Classroom! It is against fire regulations! A trash can will be placed outside the entrance. Please deposit cigarettes upon entering. Thank you.

UNIVERSAL TESTER FOR DIGITAL IC'S

By Ken - W6HHC

Have you ever wondered whether a surplus "chip" was still good? This digital tester is designed to test just about any kind of digital chips that operate on five volts. It will work with 14 or 16 pin devices and the Light Emitting Diodes (LED) let you see the state of each input and output pin. But, it is not an "automatic" tester. It will give you the tools you need to manually test any devices per its specification sheet.

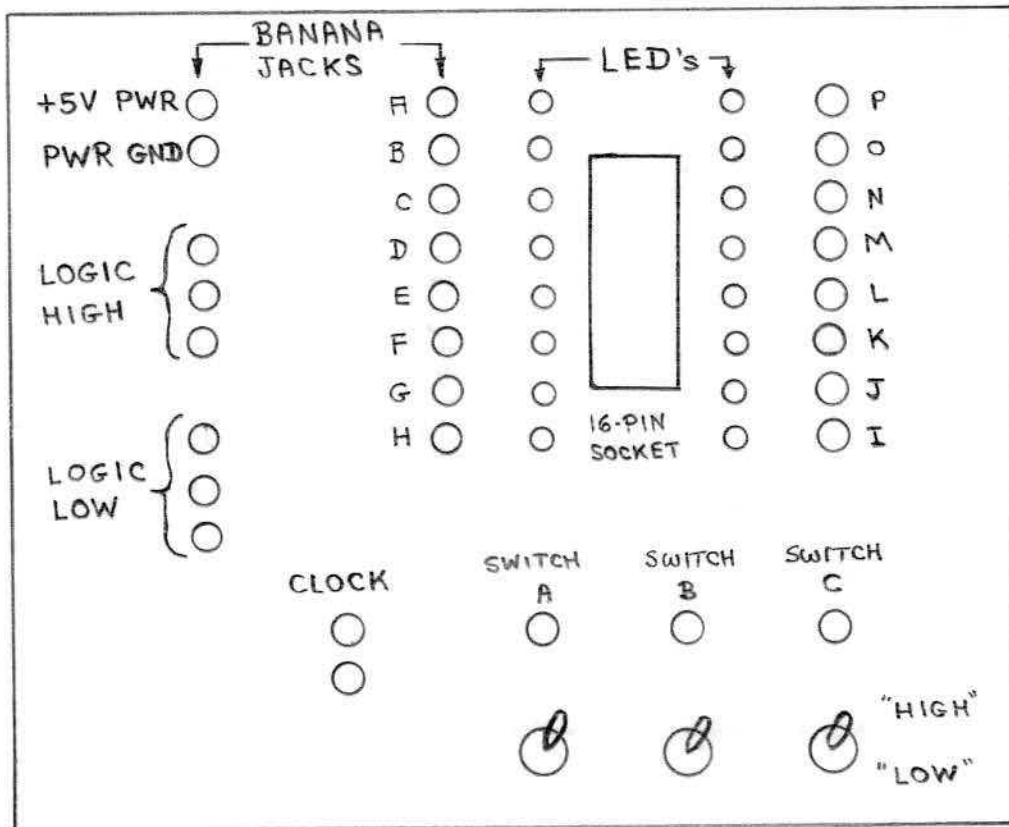


Figure 1 - Suggested Panel Layout

The tester shown in Figure 1 has a 16-pin socket to accept 14-pin or 16-pin devices. Using jumpers (Banana Plugs are recommended) you can patch +5V and Power Ground to any pins required by the device to be tested (remember the SN 7473?). Each output pin of the IC being tested will light a corresponding LED if the output is logic "high". The LED will not be on if the output is a logic "low". Unused pins will allow the LED to be on.

Input pins can be set to "high" by patching them with a jumper to the "logic high test points" or "low" from the "logic ground test points". Three "no - bounce" switches can be patched to an input pin to provide changing inputs. Finally, a 1-Hz clock can be patched in to "watch" counter chips "count".

The power supply features a "3-pin" National LM341-5.0 voltage regulator. However, any five volt power supply will do fine (approx. one half ampere).

Typical Test Set Up

Here is a typical set up to check a SN 74107 Flip Flop:

- 1) Patch "+5V PWR" to "test point P" (pin 14)
- 2) Patch "PWR GND" to "test point G" (pin 7)
- 3) Patch "logic high test points" to "test point A" and "test point D" (J and K)
- 4) Patch switch A to "test point O" (clear)
- 5) Patch "1 Hz clock" to "test point N" (clock)
- 6) Insert the SN 74107 IC in the "upper" part of the 16-pin socket (pin 1 corresponds to "test point A")

The outputs (test point B and test point C) should toggle at one half cycle per second when switch A is "high". "test point B" should go "high" (its LED is lit) when switch A is "low".

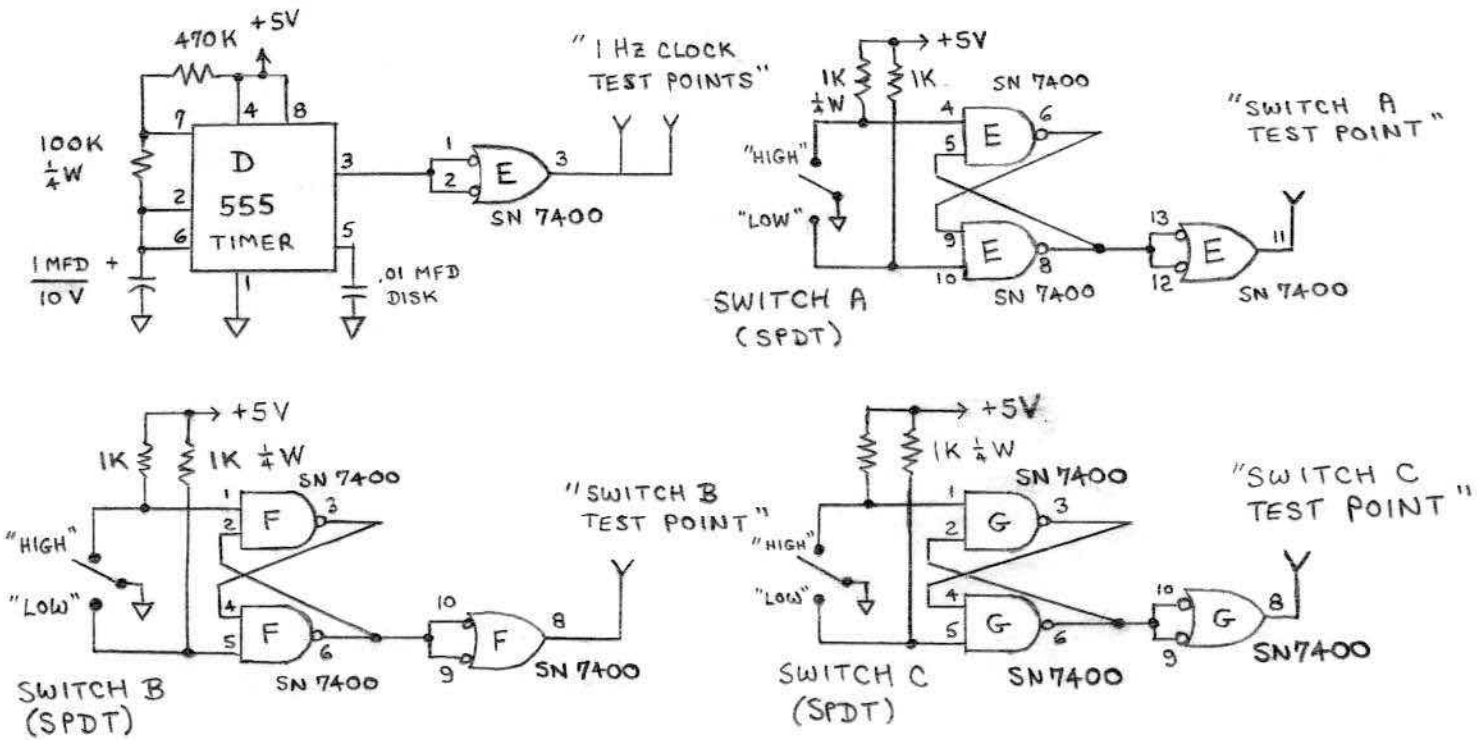


Figure 2 - Circuits for oscillator and switches

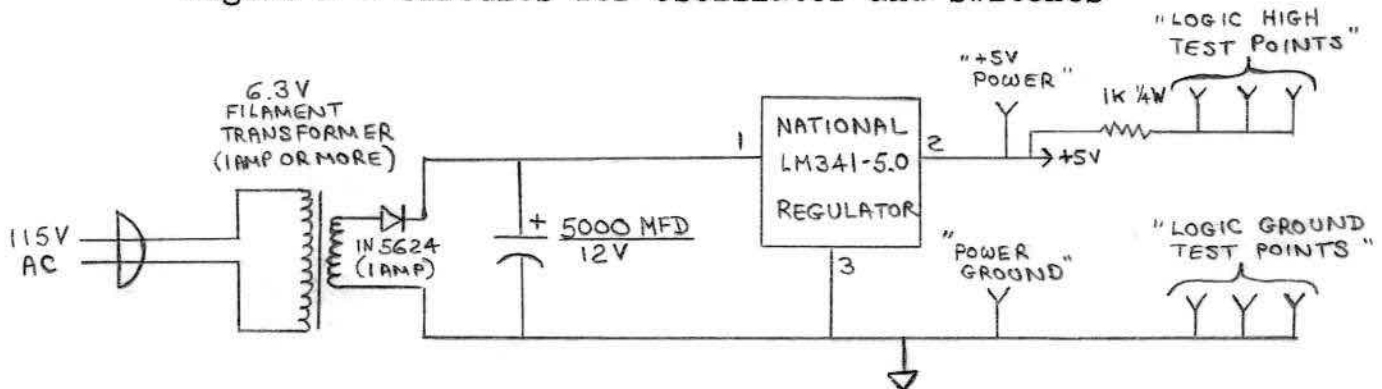


Figure 3 - +5V Regulator circuit

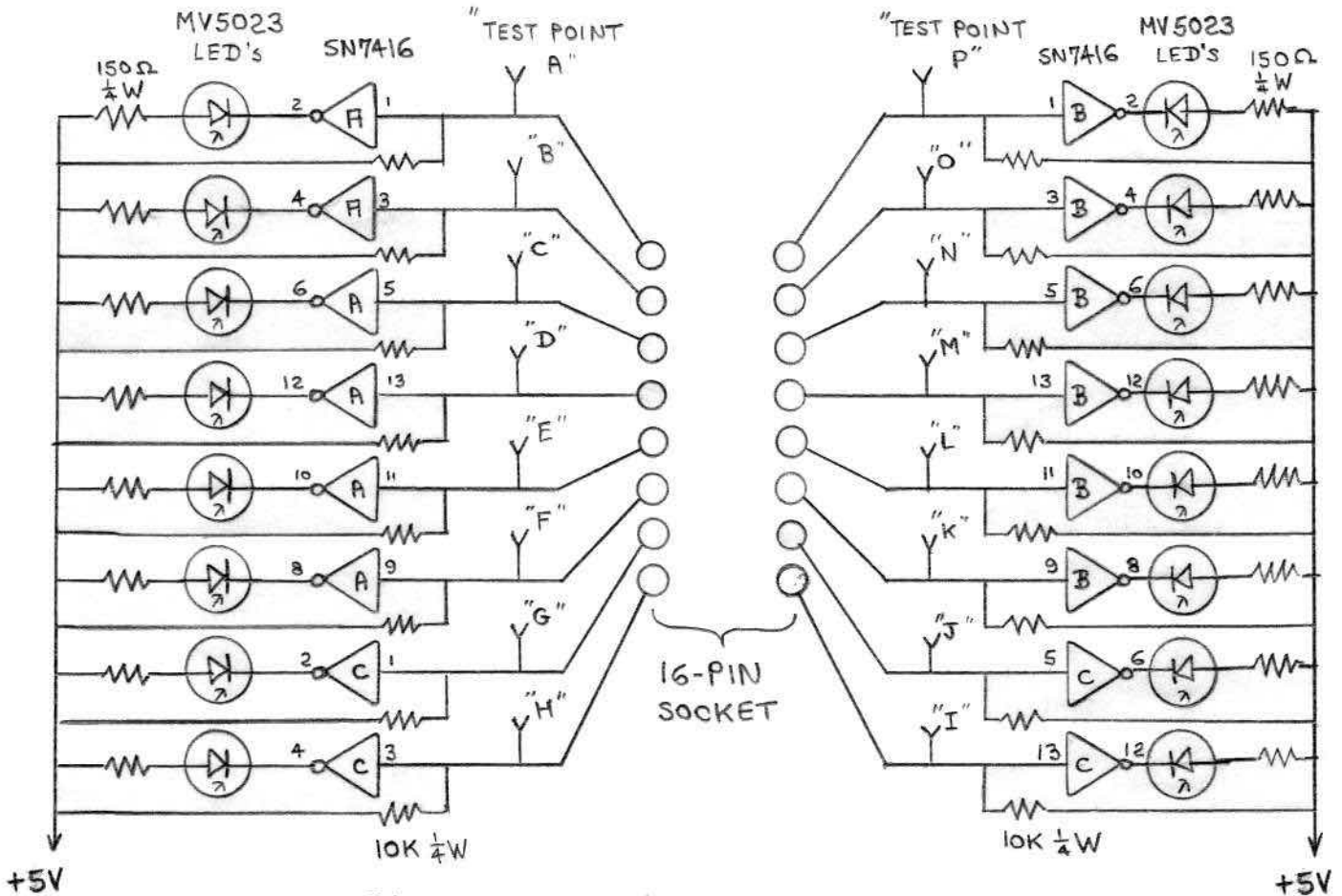
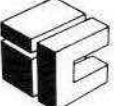


Figure 4 - Pin/Indicator circuit

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Some or all of the prizes at the meetings are provided through the courtesy of the stores listed below. Your patronage is encouraged to maintain their generosity.



(714) 997-5343

GREG ELMASSIAN

J.C. ELECTRONIC SUPPLY

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Anaheim, California 92801
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THREE MONTHS AND COUNTING

Please note June 26-27 on your calendar. Field Day is only three months away. If you have suggestions about this annual event please forward them to Ken Konechy (541-6249).

FOR SALE CORNER . . .

Oscilloscopes Tube tester Grid Dip meter

Signal Generator Tubes Transistors

Contact: Dan Walsh (847-3923)

Sunday - Monday All Day

Tuesday & Thursday after 5 P.M.

.

Drake TR-3 AC-4 Power Supply Gonset Sidewinder

Heathkit Apache Transmitter

GE Progress Line Transmitter and Receiver Strips with Crystals.

Contact: Keith Salyards (WB6RJX)

714-634-4194

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