

# SHORT SKIP



SONOMA COUNTY RADIO AMATEURS, Inc.

MAY, 82 VOL. 7 #5

## DX WATCH

### Phonetics

Last month we discussed the different kinds of phonetic callsigns: standard, place names and "cute" phonetics. Now we look at how you evaluate your own choice of phonetics, and how you can select alternate phonetics.

A phonetic call should have two characteristics: the call must be unambiguous, and it should "punch" through the pileup. Removing ambiguity from a potential phonetic callsign is easy: pick easily recognized words which have no common homophone (a word that sounds similar, but is spelled differently.)

A couple of examples of what not to do might illustrate this: A W5 called me using "Motel" as a phonetic. The confusion between this and "Hotel" is obvious. And one Field Day, an amateur called me with the phonetic suffix, "Fuzzy Wuzzy Wabbit!" I was forced to ask for clarification, "Is that R as in Rabbit or W as in Wabbit?" Back came the reply, "Wabbit! Wabbit, wabbit, wabbit!" Memorable, but not very effective in a DX pileup. Stick with less confusing phonetics.

Selecting a phonetic call with "punch" is more difficult. I suggest going to a station equipped with an oscilloscope monitor of the outgoing signal. Try different phonetics and combinations of phonetics while watching the scope. Look for those phonetics which give the greatest average output, or the "blockiest" output pattern. Lacking a scope, try watching the relative power output meter on your rig. Again, try to keep the average power as high as possible.

The two "cute" phonetics mentioned last month are very effective because they share these two most important characteristics of good phonetics: they are unambiguous and they really cut through the pileups. Watch your output meter while saying "No Good," or "Black White Yellow" to see what a good phonetic does for your average output.



Chod Harris 1982  
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## CLUB OFFICERS 1982

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Raffle Mgr.	Lyman Wiltshire	WB6SMY
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Club QSL Mgr.	Jim Tomer	W6CYM
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<u>RACES OFFICERS</u>		
Radio Officer	Herb Sullivan	K6QXB
	526-3307	
Assn. Radio Officer	Lyle Meek	N6BLN
	526-3233	

## MEETINGS

CLUB- I st. Wednesday each month, May 5 th.  
 EOC-County Operations Room. 8:00 am.  
 Board Meeting- May 14th, 7:30 PM at the Home of W6DTV, 823-7885 callin 73 repeater.  
 RACES  
 Local- I st. Monday and 3rd. Monday. 7:00 pm.  
 Local Area Freq. County Adm. 7:30 pm. on Repeater 146.73....  
 There will be another RACES training unit last Sat. and Sun. April. A May Drill is in the planning. If April 25 interferes with your helping March of Dimes attend the 24 th. meeting.

## HAPPENINGS

March and April, up to time of printing, had it's share of happenings. One we are not too happy about. Herb, on a local last minute call out by the Santa Rosa support zone, came up on the 146.73 repeater asking for help and no one in the Santa Rosa Area responded. Outsiders did, but they should not have to drive 10 to 12 miles to help Santa Rosa, a city with the majority of Amateurs. Herb was able to find three helpers by phone, W6IXC, K6CNJ, and W6JFN. Thanks to you three.

This may not occur in the near future. Herb has a new alerting system under construction and nearly ready for test. With this unit attached to your receivers speaker line or scanner and on 24 hrs. a day, a number of persons can be alerted anytime of the day or nite. This is what we need.

Some 25 amateurs visited the Coast Guard emergency Trailer displayed by the EOC in Santa Rosa. A very fine piece of emergency gear. Too bad more amateurs could not see their way clear to visit the display. Thanks to the Coast Guard and W7PEA for arrangements.

Well things are not over yet. On the 26 th. of March RACES was called out to help the State Water Quality Control Board with Communications to Ukiah where the Formaldehyde Spill ed. About 6½ hrs. was needed to help organize field testing, etc.. Again on the 30 th. another call out was made and communications were set up at the EOC with the Ukiah RACES thru repeater 145.13, to monitor the water conditions as it concerned Sonoma Co, down stream. A 24 hr. crew was set up for duty on 4 hr. periods.

Pete Peterka sent out his many thanks to the many Amateurs for giving their time away from their families for this public service.

Of a milder nature yet still public service the RACES of WSCSZ in Sebastopol served the community for two days as communicators linking parts of the Parade and on Sunday the 6½ mile run.

April the 25 th.- after Short Skip Printing the March of Dimes Walk -A- Thon will take place in Santa Rosa, Rohnert Park, Petaluma, and Cotati. There is a place for everyone in Public Service- have you found yours?

## 1st Minute News-

Sacramento Valley Amateur Radio Ham Swap  
 Sunday May 2 - 9am to 3 Pm  
 Placer County Fair Grounds  
 off Hwy 65 - North of Roseville - Talk in  
 145.19-600 223.18/224.78 Kenwood 7850 Grand  
 1COM-3AT-2nd Prize - Free admit. 2

## HOME BREW CONTEST WINNER - WB6UBA

Jim, WB6UBA won the first annual Homebrew contest with his homebrew keyer mechanism. Although only one can win, the contest Committee wants to thank everyone who brought a project and helped make the contest a success. We had a number of fine entries (yes, even yours, Hank).

Get cracking on a project for next year's contest -- the competition should be fierce!

## RACES TRAINING

You will receive more information on this from OES. Two days have been set aside but it looks like Sunday the 25th will be the day. The program is about the CDF, Introduction to Explaining the VIP program. Demonstration of the new alerting system. The system will have a general call up and also individual area call. Cost will be around \$20.00 and around \$3.00 for each area call board.

Kits and PC boards and a special get together at the JC in May to build and test the boards.

## NITS AND BITS

Lee Hemink, WD4JFR--prior to a recent 2 meter trip to Florida, I felt I needed an external speaker for my rig so I could hear better over the "road noise". My search brought me to the small earpiece which accompanies most new tape recorders, transistor radios, etc.. This little gadget let me listen clearly to even the faintest signals on :52 without driving me or my family to distraction. (The earpiece fits the external jack of my FM-227R and disables the unit's speaker).

So if your XYL can't stand the "jabber" or if you might have lost some of your audio perceptiveness--listen up! Lightweight, easy to wear, this little idea made a 1,300 mile trip a joy. Brightleaf ARC, NC- WorldRadio News

Seymour W6FPL, 996-5012, Sonoma, has a list of estate items for sale-----

Hickock VTVM/Cap tester, #209-\$40.--  
Hickock Trace Ometer #156-\$20.00--Knight WB Scope 5", \$50.00--Clegg 2/6 mtr. xmitter. 250W--with power--could be made into amp. \$75.00  
Clegg interceptor 2/6 receiver,, could be converted to FM from AM-\$95.00--Motorola 2 mtr. receiver with xtals, control head, mobile mic. \$50.00--Battery Charger 6/12 V 4 Amp. \$5.00--  
B&K tube tester, manuals \$50.00-- 2I vols of Sams fotofacts to sept. 1971-\$25.00--Tube Tester Drug Store Type, on stand with storage--\$20.00--150 rec. tubes, Mostly new, TV-\$40.00  
36 assorted xmitting tubes--50 to 150 W, \$20.00

## CATVI

As most are aware, we won the CATVI battle here in Santa Rosa proper. Total TV has agreed not to put any channels on any Amateur frequencies. (See below).

A lot of work went into this result by a number of Club members: NIAL, KC&CJ, (ex WA7UVE), KA6HGW, WABLLY, VP2ML, KD6NT, and others.

Petaluma is the next area that we know of where the cable system is going to extra channels--if any club members know of any other areas going 40, 26, etc. channel let us know.

The problem is that when the Cable Co. installs the extra channels, they use frequencies not normally assigned to TV. For example channel "E" has a video carrier on 145.25 MHz with sidebands extending 4.5 MHz up from there! Virtually every community that has put CATV on channel E has caused severe interference to 2 meters and has had a bad TVI problem from 2 meters.

We were lucky here in Santa Rosa in that Total TV of Santa Rosa was very receptive and helpful in understanding the problem, and the Committee of the City Council ( Jack Nealy and Schuyler Jeffries) readily agreed to the clause in the contract once the problem was explained to them.

The battle is not over yet, though. We have a number of other communities in the County that are served by other cable companies, and eventually they all are bound to add extra channels. Feel free to volunteer to help on this, especially if you are friends with any city councilmen. (Contact NIAL at 525-1400 x2973 days, or 527-0840 nights or on 146.73)

## NITS AND BITS

FCC deleted two outdated Part 97 sections dealing with frequency measurement and purity of emissions from the Amateur Radio Service Rules.

The FCC said that "The U.S. Senate must ratify the WARC agreement before the commission can proceed with rule making necessary to make the bands available for amateur radio operation.

FAA and FCC helps clear up CABLE TV RFI in Kansas City Area. The problem surfaced in fall of 1981 and met with a hostile dialog between the local cablevision co. and the amateurs who were experiencing interference on Cable Channel E, 145.25 MHz. Their attitude changed once the FAA and the FCC entered the picture.

Levels exceeded 250 MV/Mtr more than ten times legal level. Problem corrected. FCC and FAA helped greatly.

## YL NEWS BY N6FYV

Betty, AG6C, has finished with another novice class. There are twelve YL's anxiously awaiting their call signs. They are:

Helen Dettling--OM is Frank WA6PXW  
Nonie Cochran --OM is not a Ham  
Barbara Malmuth --Om is Seymore W6FPL  
May Kolbold -- OM is John KA6DJY  
Georgia Morton --Om is not a Ham  
Linda Barnes --Om is Spence WA6IXC  
Sharon Holmes --Om is Bart KA6HGW  
Vi Memikton --Om is Jack W6TFO  
Diane Galliani --Om is Chris W6OSV  
Claudia Rhymes --Om is WD7ABT  
Toni Messen --Om is Jim KD6LC  
Mimi Miller --Om is Tom KB6UD

Congratulations to you gals and good luck with the General Theory class. And Congratulations to Betty.

Anita, formerly KA SEW, finally received her new long awaited call. Her new call is N6GGU.

On April 3rd. and 4th. three of the YL's helped with the Apple Blossom Parade and the Apple Juice Run. They were Sarah N6FAX, Irma N6FFL, Connie N6FYV, and Heidi KA6STO.

Anyone interested in code practice on 2 meters can get in touch with N6AVA, Dick on 146.91. This will not be code tapes but code from a computer and can be given at any speed from 3w.p.m. up to ??????????????????

Have a good month!

This column is new. Send your news to Connie N6FYV telephone 823-0431 or mail to 8600 Mill Station Rd. Sebastopol, CA 95472

## CURRENTS CONT.

Geo, N6DSW cannot get back to his island paradise. Mother nature washed out his bridge and the water is too high to use his boat.

Irma, N6FFL is enjoying her new job at Electro Vector, Forestville. She is an all around PC Board person.

Gil, K6CIF is in a Hospital in SF. He has his HT and calls in on the 73 repeater nearly every day. Give him a call and chat.

Ben Bisordi, KA6SSM, a recent novice in Sebastopol is so turned on with Amateur Radio he quit his job to spend full time on Radio. Has worked some 40+ states and 30 countries. Go Go Go.

Warren Klinger, WB6RHP looked good as a cook at the Pole Mt. Lookout money raiser breakfast. Their fire department needs \$8000.-- do any sugar daddy around?

## CURRENTS AROUND THE CIRCUIT

Good news. Hans Berg, a member of our sister Club in Lubeck, Germany, will be in Santa Rosa the last part of May and first part of June. Plan to see and talk with him at our June meeting.

Robert Brenstein, KA6EUP, by not attending the April meeting is now \$69.00 short. His name came up in the Roll Shake. \$69.00.

Amy Pardini, of March of Dimes, attended the April meeting and thanked the Club for help with communications. A very important part of the Wald-A-Thron.

We have two Authors in our Club. W6BNB Bob Schrader, has a new book out on Amateur Radio. This is a text type book, not a hand book, to help up grade in the Amateur field. Bob also has an article each month in Ham Radio Magazine to help up grade.

VP2ML, Chod Harris, our DX Watch Editor, has a book on DX in the computer. He is now writing for 73 magazine.

W6RIA, Wayne will spend some time in Germany during his summer vacation. He will not be leaving until after Hans visits Santa Rosa.

Terry La Duke with the aid of Don WA6ACX has a taller tower than before. All he needs is a big bird to haul up the Quad.

Anita, N6GGU and family will spend a year or so sailing. The plan is to leave this fall and spend the winter months down Mexico way. So look for N6GGU/MM next fall.

Two of Mike Ter Sarkisoff's Students, Analy High, Scott and Heidi up graded to General. Heidi plans to go to Cal. Tech. U. this fall.

Ray Clary and his son Ray Clary Jr. WA6BHX and WB6ACJ keep in close touch via 2 meters and the 73 repeater. Swell.

John, W6CCY has a massive KIM beam all put together but mother nature will not cooperate and let Don and others get it up on the tower.

Hoppy, WB6CKP and Don, WA6ACX live only 6 or so miles apart as an old sick crow flies but burned up 6000 miles of air ways talking to each other via a repeater in the east and 10 PM.

Doug Stewart, N6DHT our former Sect. now lives in Napa, CA. One way to get out of a Sect. Job.

It's to see Glen Crowover back in the saddle. Glen says he still has back trouble but is able to get around better.

Bob Olsten announced at the April meeting that he would miss the next meeting. There goes a good cup of coffee.

## W5YI REPORT.....

The FCC has terminated an inquiry on reducing or eliminating the telegraphy requirements for handicapped persons seeking licenses in the Amateur Radio Service. "If it creates a class of amateur radio operator license with no code requirement," the FCC said, "the class will be available to any applicant, not limited to those with certain disabilities."

ARRL--Victor C. Clark-W4KFC-President.  
Carl L. Smith, W0BWJ, First Vice President.  
Larry E. Price, W4RA, and Garfield A. Anderson, Additional V P-K7UGA----Richard L. Baldwin V.P. International Affairs----Dave Summer, K1ZZ, (the new GM), Sect. and James E. McCobb, Jr. K1LLU Tres.

Another city gets in on the begining with Cable TV--City of Torrance, CA had it's city attorney was further instructed to draft the city ordinance in such a manner that the interests of the amateur radio community were protected. Teleprompter responded to the letter stating that "If interference is discovered to be a problem to the use of Channel E cable signals, then Teleprompter will discontinue the use of Channel E cable signals. Copies of the Teleprompter letter were forwarded to the Hughes ARC with a note indicating it " will travel as a part of the City's contract."

RUMOR----Understand that there is a movement in JAPAN to change the amateur call signs of U.S. hams there with KA# call signs to 8J or JB call sign prefixes.

SIGNAL PIRACY ----A federal judge has dismissed 16 counts of a 36 count indictment that had accused Pirate Video of Huston of helping customers intercept pay television signals illegally by selling microwave antennas. Defense lawyer David Berg said there is no federal law against interception and, "no law no crime." The Federal judge agreed. Associated press.

FCC--The commission also took the opportunity to "call upon the amateur community to develop and disseminate data which could be used by amateur radio stations operated in the U.S. as the basis for a workable, state of the art transmitter power measurement technique" since present methods and regulations "are inadequate when applied to current operating methods and emission modes."

FCC--The FCC has decided to allow the use of new radio control and security devices in the 144-148, 220-225, and 420-450MHz bands. ARRL has petitioned for reconsideration. After Cable TV you would think they would learn??ED.

## W5YI-Cont.

K7UGA, introduced legislation funding the NITA at \$12.4 mil for fiscal 1983. The NITA is the principal adviser to the President and the department of State on Communications policies. Part of the bill allows private individuals designated by the Sect. of State to speak on behalf of the U.S. at international conferences where telecommunications matters are at issue.

## Radio Shack

STORE NO. 3855

ZANE BATES  
MANAGER

510 FARMERS LANE  
SANTA ROSA, CA. 95405

TELEPHONE  
546-8423

## NITS AND BITS

20 Meter Mono Beam and 15 Meter Mono for sale--\$75.00 each, call Hoppy Sr. at 823-7182

Midland I3-509, 220 MHz I2 channel, xtal for symplex-repeater.\$200.00 call Frank La-Pointe, 542-7617.

Need Amateur equipment serviced? Call Jack Wieber, 575-0768. WB6ZRP

The repeater fund is now up to \$1400.40  
The regular fund is \$1163.64

Tom Ware will be in town May 4th and 5th for a meeting. See Chuck, W6JOX for any info.

Pass on the info that Al NIAL will start his up grade class April 19th at the Bellview School call him at 527-0840 after work or 525-1400 ext. 2973

Scott Roleson, KC7CJ is in town but he seems to be keeping a low profile. If you see him say hello for the gang.

## RACES

Here are some figures to play with if you are planning anything for RACES. Amateurs  
SR-309, HB-15, Win.-12, Clov.-6, Seb.-66  
Pet.-122, Son.-60, RP-26, Occd.-3, Coast-II  
ForV-8, GuenV-6, KenW-5, Tom.-2, Gysr-I,  
Cot.-7, MoRio.-I, PenG.-4, GleEln-8

If you need a 6' dish for UHF work call WB6RHP at 632-5459, or 73 or 91 repeaters.  
\$100.00...

## ROSTER

## SONOMA COUNTY RADIO AMATEURS, INC.

1 9 8 2

Ray Clary, Jr.	WB6ACJ	1728 Reifling	Lodi, CA 95240	
Don Osborne	WA6ACX	9070 Greenvalley Road	Sebastopol, CA 95472	829-0565
Alan Bloom	N1AL	2425 Corby Ave. #7	Santa Rosa, CA 95401	527-0840
Len Geraldi	K6ANP	9705 Old Redwood Hwy.	Penngrove, CA 94951	795-4335
Don Reeves	N6BDM	1261 Calle Del Arroyo	Sonoma, CA 95476	
Dennis Morelli	N6BFY	6096 Vine Hill School Rd	Sebastopol, CA 95472	823-2292
Ray Clary	WA6BHX	2125 E. Foothill Dr	Santa Rosa, CA 95404	546-3737
Robert Thomson	WD6BIY	P. O. Box 222	Felton, CA	
James Hobart	KA6BYX	2053 Humboldt Street	Santa Rosa, CA 95404	546-3225
Betty Bravin	AG6C	3411 Coffey Lane	Santa Rosa, CA 95401	542-6750
Brad Webb	WD6CCG	16761 Mission Way	Sonoma, CA 95476	996-0278
John Lynch	W6CCY	6710 Nicole Ct	Sebastopol, CA 95472	823-1357
Hoppy Bravin	WD6CKP	3411 Coffey Lane	Santa Rosa, CA 95401	542-6750
Jim Tomer	W6CYM	709 Sequoia Drive	Wind sor, CA 95492	838-9464
Terri Pannette	N6CYV	5961 Yerba Buena Rd	Santa Rosa, CA 95405	539-7715
Mike TerSarkisoff	N6DBZ	6950 Analy Avenue	Sebastopol, CA 95472	823-8977
Alan Geraldi	N6DCJ	9705 Old Redwood Hwy.	Penngrove, CA 94951	795-4335
Pat Reeves	KA6DCP	1261 Calle Del Arroyo	Sonoma, CA 95476	
Chuck Sabin	N6DDK	8345 Brand Lane	Penngrove, CA 94951	795-2371
Terry Lynch	KA6DEI	6710 Nicole Ct	Sebastopol, CA 95472	823-1357
Doug Stewart	N6DHT	910 Elnora Ct	Napa, CA 94558	255-9242
Francis J. Ralph	N6DIP	P. O. Box 460	Clearlake, CA 95422	994-6618
John Kobold	KA6DJY	2433 Appletree Dr	Santa Rosa, CA 95401	544-5330
Glen Crownover	N6DNB	251 Sylvia Way	Glen Ellen, CA 95442	545-2937
Bob Olsten	WD6DPE	3723 Arizona Avenue	Santa Rosa, CA 95405	546-5593
George Wallace	N6DSW	P. O. Box 13	Tomales, CA 94971	878-2394
Don Lunt	WA6DTM	190 Dorchester Ct	Santa Rosa, CA 95401	
Hank Davis	W6DTV	7822 Washington Ave	Sebastopol, CA 95472	823-7885
Bill Thomas	WD6DXW	5341 Thomas Rd	Sebastopol, CA 95472	823-9429
Ralph Wedertz	N6DYE	718 S Ely Blvd	Petaluma, CA 95452	763-2364
Don Christensen	W6DZM	2210 Oakhill Dr	Santa Rosa, CA 95405	545-2241
Joe Apfel	WFB6EAS	1501 Park St	Santa Rosa, CA 95404	
Robert Brenstein	KA6EUP	3121 Rocklin Dr	Santa Rosa, CA 95405	
Sara Davis	N6FAX	7822 Washington Ave	Sebastopol, CA 95472	823-7885
Jerri Bremer	N6FCV	3200 Tobin Ln	Santa Rosa, CA	546-7047
John King	WD6FEQ	1126 Hopi Trail	Santa Rosa, CA 95404	584-5903
Irma Pemberton	N6FFL	9070 Green Valley Rd	Sebastopol, CA 95472	829-0565
Seymour Malmuth	W6FPL	20730 Temelec Dr	Sonoma, CA 95476	
Jack Guggolz	N6FQZ	1123 Palomino Rd	Cloverdale, CA 95425	894-5798
Pat Schaffer	N6FYT	2320 Mark West Springs Rd	Santa Rosa, CA 95404	546-8860
Connie Freitas	N6FYV	8600 Mill Station Rd	Sebastopol, CA 95472	
Donna Lunt	N6FYW	190 Dorchester Ct	Santa Rosa CA 95401	
Steve Schaffer	KD6GC	2320 Mark West Springs Rd	Santa Rosa, CA 95404	
Duana Williams	N6GCD	407 Freisbie	Santa Rosa, CA 95401	584-7574
J. C. Van Groos	W6GFY	1709 Pamela Drive	Santa Rosa, CA 95404	544-3485
Gil Seiler	K6GIF	126 Boas Dr	Santa Rosa, CA 95405	539-2987
Don Chase	KE6GT	2734 Navajo	Santa Rosa, CA 95401	546-4619
Jim T. Hall	W6GYV	20747 Temelec Dr	Sonoma, CA 95476	938-1559
Bart Holmes	KA6HGW	2818 Cochina Court	Santa Rosa, CA 95401	528-3955
Jack Tenney	KA6HHK	1888 Judson Ln	Santa Rosa, CA 95401	542-8080
Roy Hope	KA6IVK	1327 Tulip Tree Rd	Santa Rosa, CA 95401	
Spencer Barnes	WA6IXC	1941 Lariat St	Santa Rosa, CA 95401	526-1514
Mark Hardin	KA6JAE	1951 Goodwin Avenue	Penngrove, CA 94951	795-5586
Kermit Parker	W6JFN	15975 Sonoma Highway	Sonoma, CA 95476	996-6121
Danny Geraldi	KA6JHM	9705 Old Redwood Hwy.	Penngrove, CA 94951	795-4335
Ray Bowers	WA6JNY	2317 Gardiner Ave.	Santa Rosa, CA 95401	542-4085
Frank LaPointe	WB6JSA	2775 Santa Rosa Avenue	Santa Rosa, CA 95401	542-7617

HT CHARGER/POWER SUPPLY--WB6UBA

Getting tired of HT batteries going dead? Ever seen the price on the charger/base that fits your HT? Why not build one yourself? Here are a few ideas from the one I built for a TR 2500. It could probably be adapted to work with others as well.

I use this base primarily mobile so that it operates off of the vehicle power supply, but it could be built with an AC supply built in or it could be connected to a 12V supply that you may already own.

The TR2500 has a micro switch in the base that disconnects the battery pack from the HT when it is set in the base so charging the battery and supplying external power at the same time is simple. Check your HT manual for specifics on the circuit your HT uses.

The base itself is a small aluminum box with a square hole cut in the top of it with a nibbling tool. This is covered by a piece of 1/4" clear plexiglass. The top is a piece of oak with a hole cut out in the center so the HT just slides in. (You may want to make it a little large and line it with foam rubber or weatherstrip, etc.).

The contacts in the base are made from 6/32 round head screws and springs from ball point pens. They are positioned correctly by setting the HT in the case (base) and looking up through the plexiglass from the bottom to mark their location.

The red LED only lights if the HT is totally seated in the base. I include a small 12V lamp to illuminate the TTP in the dark for mobile use.

U1 is connected as a constant current regulator. The trickle charge rate should be 0.1 times the mA/hr. rating of your battery pack. (40 mA charge rate for a 400 mA/hr. battery). R6 can be chosen from the formula  $R6 = \frac{I200}{mA}$

R1 can be adjusted to obtain the regulated voltage needed by your HT. D3, Q1, R3 and R4 make up a "crowbar" overvoltage protection circuit in case the regulator fails. D3 should be chosen to provide a safe level of voltage for your HT.

Refer to QST May 1980, April 1981, and October 1981 for more ideas on HT bases.

WB6UBA, James Boyett, won first place in the April Home Brew Contest of the Sonoma County Radio Amateurs, Inc.. His name is number one on the Club Plaque. Congrats.....  
Cont. back page.

WB6UBA

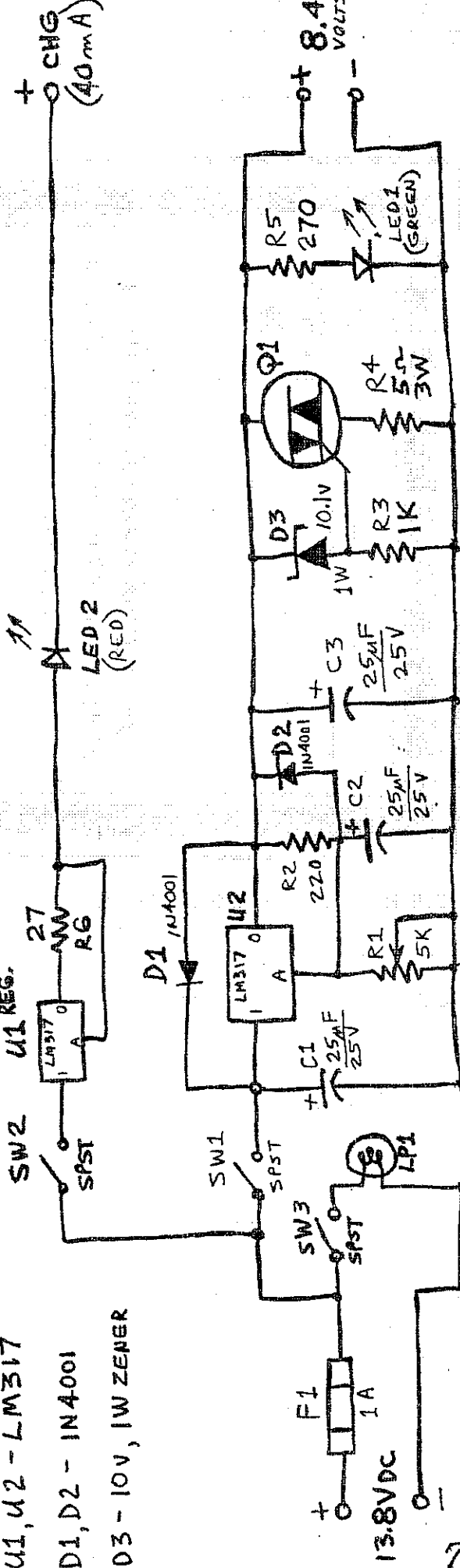
TR2500 CHARGER / POWER SUPPLY (MOBILE)

Q1= 200V, 6A TRIAC  
(R.S.# 276-1001)

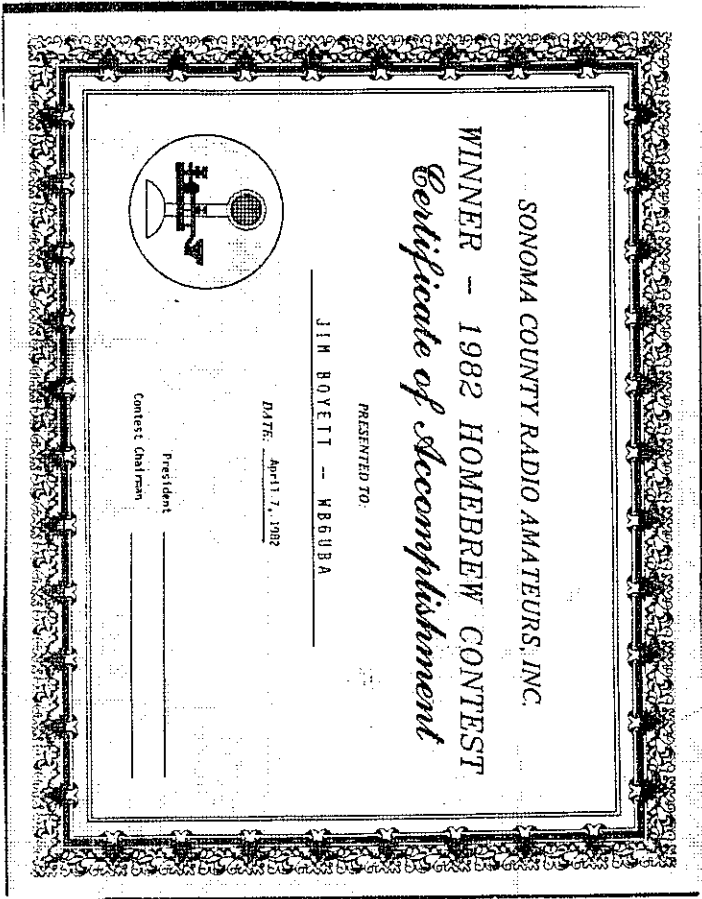
U1, U2 - LM317

D1, D2 - IN4001

D3 - 10V, 1W ZENER



ALL VOLTAGE RATED



SONOMA COUNTY RADIO AMATEURS, Inc.

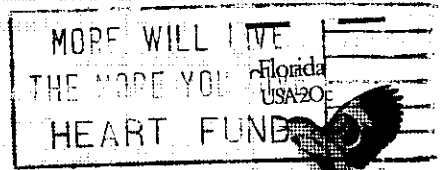
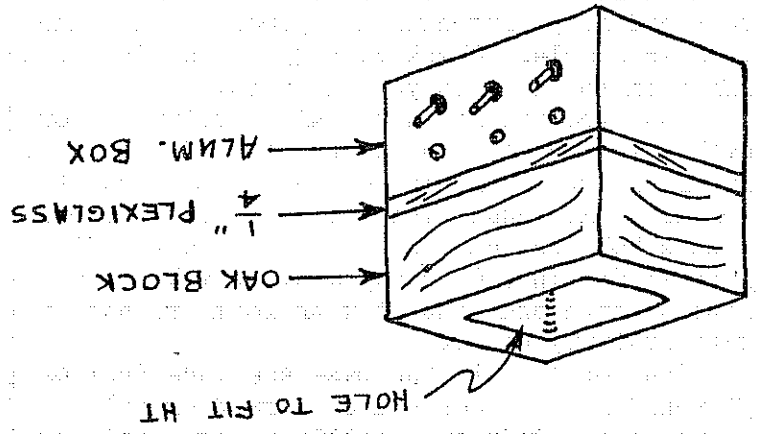
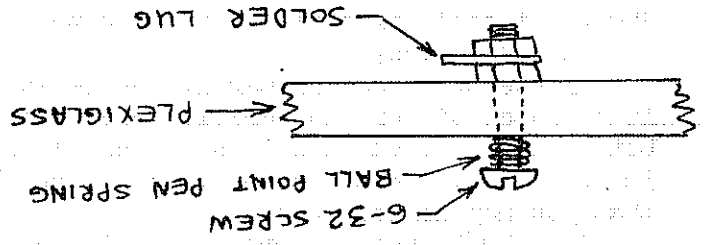
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