SHAVER RADIO, INC.
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1378 S. BASCOM AVE. SAN JOSE, CALIF.

DAVID SHAVER
K6DTX

SALES
SERVICE
INSTALLATION

More than a dream.
The Santec HT-1200
4W SYNTHESIZER RADIO MODULE

- 4W Minimum/1W Low (True low power, no resistors)
- 10 Memory Channels with Auto Memory Initialize Digital Display — Reliable Long-Life, Rugged LED's
- 14 Bit Microprocessor/Keyboard Control
- 16 Tone Touchtone Generator
- Single Button Memory Recall
- Heavy Leather Case (Optional)
- 800 Channels plus MARS (143.0 — 149.995)
- Keyboard Entry of All Frequencies, All Digits plus Autotone
- Up/Down Bandscan (Stops on signal, resumes scan on sq.)
- Up/Down Memory Scan (10 memories)
- Up/Down Bandsearch (Stops on signal, locks entry)
- Up/Down Memory Search (Locks on first used memory)
- Scan Steps in 5 kHz Increments, Keyboard Selected
- Preprogrammed: 600 Hz
- Any Split Programmable by the User
- Automatic Display or Continuous Readout

Sale subject to FCC Certification to Part 15.

When is a handheld a radio module? When it is designed from the start to be part of a complete 25 or 50W mobile system. Not only can the Santec HT-1200 operate on its own Ni-Cd battery, but also it can function respectably as the center of a modular synthesized high power mobile.

☐ The HT-1200 produces at least 4 watts on all the ham frequencies, from 144.000 to 147.995, for the punch needed for repeater/handheld communications. The low power mode is true low current drain. ☐ A Texas Instruments TMS 1000 microprocessor powers the brain of the unit, providing keyboard entry of all digits down through the kHz digit. ☐ In addition to providing 10 programmable memories, the microprocessor programs 10 different popular frequencies into the memory on initial start-up. These may be overwritten by the user when programming his favorites. This added convenience is standard in the Santec.

Compare the features and functions that come with the competition's popular 25 watt mobile units and you will find the HT-1200 system has them all beat! This dream of a radio is more than a dream, it's a reality. See us at the Dayton Hamvention for a hands-on demonstration of all the capabilities of the Santec HT-1200.
PAARAgrahps is the official organ of
The Palo Alto Amateur Radio Association and the Menlo Park Civil Defense Radio Club

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PAARA POLICIES

Membership in PAARA is $6.00 per calendar year (payable in January) which membership includes a subscription to PAARAgrahps. Frequent distribution to those who indicate an interest in the Club and as an inducement to their becoming members, and is subject to change with changing interests in the Club. Make payment to:

PAARA, P.O. Box 911, Menlo Park, CA 94025

Written contributions to the P.O. Box above, or c/o Editor, 1243 Del Norte Ave., Menlo Park, CA 94025

PAARAgrahps STAFF

Editor : Bob Baum W6BBH
Production : Dave Daniel KB6WP
Advertising : Swede Swenson N6CHL
Printing : Mellinics A10K
Mailing : Ed Fairbanks W6AIN
Cover : Sue Lindner L6VLY

REGULAR MEETING

Friday

Rooms 15-17, Menlo Park Recreation Center, Civic Center, Alma at Hielke Drive
Menlo Park

AMATEURS AND RADIO TOWERS

by

Emery Boring W6TIF

Emery is a Sales Engineer for W. J. Purdy representing Rohn Towers. Topics discussed will be location, structure, types of towers, wind loads, rules and regulation of structure. Illustrated with slides.

CIRCLE THE DATE

May 1

In the future: Board Meeting May 6; EMARC Flea Market May 9, Meeting June 5, Field Day Work weekend June 19-21, Field Day Set-up June 26, Field Day June 27-28.....

TO THOSE WITH RED DOTS ON THEIR MAILING LABEL:
There is no record that your 1981 dues have been paid.
PAST CORNER: Dave, KB6WP, opened the meeting with much table pounding to break up conversations that were underway. When seats were taken, some were left standing. So additional chairs were brought in to make all 59 attendees comfortable.

Guests were introduced, including Marc Oeschger, (NC) from Palo Alto, Walter Murray, (NC), Mountain View, Doug Thompson, (NC), Santa Clara, Patty Winters, N63IS, and Steve Greenberg, (NC), Menlo Park, and Henry Makler, KA6OUJ, from Los Altos Hills. A good crew of guests who were given a warm welcome.

Mac, N6YV, told of the woes of setting a picnic date and opted for April 26, admittedly a short fuse and a challenge to PAARAgraphs to meet a delivery date in time to reach the membership. A show of hands indicated a good turnout and a map was promised for inclusion in the paper.

Gerry, W6XRI, reported on flea market activity — the next in line is for EMARC, May 9, at Foothill College, and then at Rancho Cordova on May 31.

John, KA6OUG, gave a report on the Post 599 450MHz repeater which seems to be progressing in a professional way at an amateur rate. Look for it soon.

Fred, K6YT, took the floor with an interesting gadget in hand — a double compound tool post supposedly to be used to turn down (smooth) the armature of the exciters to the "new" Club alternator. Lamenting his temporary loss of a machine shop, he volunteered drawings to someone who would volunteer to make the rack for it to fit the generator frame. Frank, WA6QPV raised his hand and got the job. Relief was written all over Fred's face at that turn of events. Fred then distributed Club badges to those who recently ordered them and nicely fielded complaints from those who either had, or thought they had, ordered them.

Dave, WP, started a report on interesting operating events during the recent past. His comments were shaded by those of Nolan, K631T and Loren, WA6ENC. Tom, KH62ZB, reported John, KA6FUS, wasn't doing much operating but was studying to upgrade.

The meeting broke for coffee, chocolate, cookies, and a 180° phase shift in seating so those who were in the back were in the front for Gordon's, W6CP's discussion to follow ragschewing sessions.

Gordon gave the history of SSTV in a few minutes and then chalkboard block diagrams of two systems to go with a $6000 model or a $145 model — the latter even if you have no gong you can utilize in the shack. The development of the flying whatchamamcallit was interesting and the demonstrations convincing. By golly SSTV does work.

After a raffle of goodies the meeting broke up about 9:45, with shouts from the back table: "See you at the picnic — next meeting MAY DAY!"

BOARD CORNER: Bob, K6SEM, wound and set the bulkhead clock in the Club trailer about 7:25 and the meeting started exactly at 7:30 p.m. Around the conversation pit sat George, GI30EN, Gerry, W6LNV, Gerry, W6XRI, John, KA6OUG, Ed, W6AIN, Kevin, WA6FNC, Bob, K6SEM, and Mac, N6YV.

Hangfires included a report from Bob, SEM, that the Club insurance program was well founded and that a new understanding between the carrier and PAARA had been reached.

Mac, N6YV, reported that the only Sunday dates available for a picnic at Huddart Park between now and next fall were Memorial Day and the 4th of July — except for April 26, which he reserved for PAARA.

Dave, KB6WP, indicated all his choices for speakers for the May meeting were a little elusive but he had no great concern that he would reach one.

New business centered on Field Day activities. Bob, SEM, suggested that with 299 (or more) stations in the 4-A class with more than 5000 operators out "get" PAARA this year we had work to do. Cam, K6IU, is spending evenings reworking antennas, and Fred, TT, is making sure operators, towers, and all the rest is ready to be loaded on trailers for the big day.

Bob gave a time-table for the events and stressed the need for help the Friday before F.D. June 19 and on Saturday and Sunday, June 20 and 21 to help organize the transportation of gear.

Bob, SEM, will be the phone "captain" while Cam, K6IU, will lead the CW crew. Those interested in operating should contact either for assignments. Those who want to learn, or back-up operators, will be used as checkers. Ed, W6AIN, alluded that checking was often more difficult than operating.

New blood will be needed for the knockdown Sunday afternoon, June 27. Removal of equipment is not back-breaking, but when operators, checkers and support crews are bone weary from the 24-hour program their stumbling could cause a problem.

Dave, WP, asked if anyone had heard of entries in the PAARA contests. Gerry, W6XRI, said if no one had entered, he would. He claims two phone patches in 26 seconds. That outdid Bob, who had somehow talked to Doug, K6DOA, approaching the English Channel. Of course, no one considered Cam, K6IU, would come near winning. Logs of contestants should be brought to the May meeting for judging — both ARRL DX Contest and the '73 WFX Phone Contest.

Mac, N6YV, got back to F.D. discussion suggesting a sign-up list be available at the next meeting. Figure out when you can be available, what you want to do, what you can do and what you don't want to do, and then sign up at the May meeting.

The meeting broke up about 8:45 with some going down the winding road to refreshments while others went home to finish Massada. The next effort by the Board will be May 6. Any and all are invited to the Club trailer, just inside the Guard Post at SRT. 7:30.

** **

NEW MEMBER CORNER: Kenneth R. Allen, WB6BCV, first licensed in 1962 now holds an Advanced Class license. Ken operates on 10, 15 and 40 meter phone and CW, but CW only when the mood strikes him. He is working toward getting a 2-meter rig on the Club net frequency of 145.45 MHz simplex so he can join the rag chew at 8:30 Monday evenings. Look for Ken on the HF bands and we're waiting for a new checkin on the Monday night gathering.
Adachi, Richard R.  W65VS  2 Coleman Place  Menlo Park, CA 94025
Aguilar, Liza  WA7MVA  P. O. Box 7410  Stanford, CA 94305
Alexander, Mike  K6GHRU  355 Barton Way  Palo Alto, CA 94303
Allen, Ken  W65KV  3784 Grove Avenue  Palo Alto, CA 94303
Anderson, Andrew J.  K6EHS  735 Mayview Avenue  Sunnyvale, CA 94086
Arnold, John L.  WA6YSY  550 Morse Avenue  Menlo Park, CA 94025
Bartelme, John P.  WA6AMC  1025 San Mateo Drive  Palo Alto, CA 94303
Baum, Douglas A.  KA5DQR  P. O. Box 993  Galveston, TX 77553
Baum, Robert A.  W6PHJ  1043 Del Norte Avenue  Menlo Park, CA 94025
Brodie, D. H.  W65PG  315 Cotton Street  Menlo Park, CA 94025
Brown, Morris  N6DMM  140 Stone Pine Lane  Menlo Park, CA 94025
Brubaker, Alan A.  K6KO  34456 Colville Place  Fremont, CA 94536
Cady, Henry G.  W6PSY  P. O. Box 883  Clearlake Highlands, CA 95427
Callander, George  WA65ZX  51 Primrose Way  Palo Alto, CA 94303
Camp, Edvin K.  K6YT  1161 Cloud Avenue  Palo Alto, CA 94301
Canham, Fred F.  W65QY  3706 W. Pacific Ct, Hwy. 
  Ventura, CA 93001
Cary, Charles E.  KA6CZ  940 Arbor Road, Apt. C  Redwood City, CA 94062
Chan, Loren B.  WA652NC  6182 Ocho Rios Drive  Redwood City, CA 94062
Chandler, Frank  WB6QPV  1040 Menlo Oaks Drive  Redwood City, CA 94063
Chiappari, Ronald F.  N6AUV  113 Foxwood Road  San Carlos, CA 94070
Churchill, Paul K.  W65QY  3706 W. Pacific Ct, Hwy. 
  Redwood City, CA 94062
Clark, Ed  W6KJ  3657 Oak Knoll Drive  Palo Alto, CA 94301
Cline, Jack  K6JK  3527 Arborus  San Carlos, CA 94070
Collins, H. R. (Dick)  K6AN  1921 Birch Avenue  Lake Oswego, OR 97034
Conboy, Terry  N6RY  2631 S.W. Orchard Hill Pl.  Atherton, CA 94027
Crocker, Earl W.  W6YGC  224 Selby Lane  Menlo Park, CA 94025
Croft, William  WD9AOG  22 Coleman Av, Apt. 20  Milpitas, CA 95035
Curry, Daniel L.  WB6STW  166 Midwick Drive  Menlo Park, CA 94025
Daniel, Dave  KB6WP  240 University Avenue  Menlo Park, CA 94025
Delibian, Robert  W65QY  1015 Lemon Street  Menlo Park, CA 94025
Dorrance, David  WA6YSO  1216 Fernside Street  Redwood City, CA 94061
Doster, Landry G. (Dusty)  K6MPN  966 Glennan Drive  Redwood City, CA 94061
Dwight, Kenneth W.  WA6NYB  2371 Carmel Drive  Palo Alto, CA 94303
Dwight, Marilyn  DWIGHT  2371 Carmel Drive  Palo Alto, CA 94303
Edberg, Eric B.  W6DUF  461 Heather Court  Los Altos, CA 94022
Edgerton, Millard J.  WA6VZZ  49 Showers Drive  Mountain View, CA 94040
Edson, Willard  AG6D  2165 Carmelita Drive  San Carlos, CA 94070
Elge, Al  W6ALD  1710-A Marshall Court  Los Altos, CA 94022
Fairbanks, Edmund U.  WA6LDN  1049 Sonoma Avenue  Los Altos, CA 94022
Fammlener, Keith  WB6GTT  2380 Waverly Street  Menlo Park, CA 94025
Ferranti, Richard L.  WA6NCX  215 Herrick Road  Palo Alto, CA 94303
Pinkbeiner, Dick  W6ALL  267 Bonny Street  Menlo Park, CA 94023
Fraher, John  KA6FRC  23000 Cristo Rey Drive  Atherton, CA 94022
Frye, William  K6604  536 Lincoln Avenue  Mountain View, CA 94043
Gallagher, Robert J.  KA6HT  1738 Ensenada Way  Redwood City, CA 94061
Godwin, Myron R., Jr.  WA6VZZ  720 Coleman Avenue  Newton Center, MA 02159
Gordano, John  K6JU  1731 Alameda de las Pulgas  Mountain View, CA 94044
Harper, David  WB6JFH  Route 1, Box 2873  Menlo Park, CA 94025
Harper, Walter  WB6JFH  Route 1, Box 2873  Palo Alto, CA 94303
Hartwell, James W.  K7UDG  1777 Woodland Ave, Apt. 38  Redwood City, CA 94061
Hausafus, Edward T.  WA6FSQ  467 Encino Avenue  Redwood City, CA 94061
Hill, Robert  WA6HAB  2447 Alvin Street  Atherton, CA 94022
Hinton, Peter D.  WA6CVP  33 Maple Avenue  Atherton, CA 94022
Hotz, Preston E.  KB6WD  209 Blackburn Avenue  Atherton, CA 94022
Ice, George E.  K6OMT  855 Sommerset Court  Atherton, CA 94022
Jenkins, Bill  WA6ML  2360 St. Francis  Palo Alto, CA 94303
Jenson, Alan S.  W6UFP  2312 Santa Ana  Palo Alto, CA 94306
Johnson, Don  W6AAG  809 Capay Street  Palo Alto, CA 94306
Kanthack, Kurt H.  WB6CV  165 Stonepine Lane  Palo Alto, CA 94306
Katz, Nolan  KB6LF  1030 Silverhill Road  Palo Alto, CA 94306
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Vance Wardlow, W6PLE, is one of the longest term PAARA members, dating back to 1936. Licensed since 1926 makes Vance an old timer; he holds an Extra Class license. An eleven year Editor of PAARAGraphs, Vance always encouraged members to PARTICIPATE (as Vance would print it) in Club activities. He largely succeeded; success which has shown in PAARA growth.

A. W. Stainback, W6GVP, was first licensed in 1959 and holds a General Class license. His "Classic Drake" station keeps 15, 20 and 40-meters busy.

John Gordone, K6JU, was first licensed in 1956 as a General Class licensee. He's pretty well supplied with both HF and 2-meter gear though not yet heard on the Monday night session of the PAARA group. He works 40-meters phone and CW, is active enough on 6-meters to have WAS there, and also uses 2-meters effectively. His interests are DX, cont ests, and FO and VHF. John has a preference for technical talks at the meetings and if movies can accompany them he likes them more.

We've no past Club history on John, so he turns out to be our "new" member this month. Look for him at the May meeting while you reacquaint yourselves with Ken, Vance and Al.

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CUT AND PASTE CORNER: The above are included in the May roster. Look for lots of entries next month when all the mistakes are unveiled.

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WALKERS CORNER: On April 4th about 150 walkers and joggers, supported by churches and other groups and individuals traversed an eleven mile circuitous route through Palo Alto, Menlo Park and East Palo Alto.

This walk was monitored by seven of our members, 2-meter mobile control by WA6PSQ, W6AIN, W6BH, K6SH, N6CHL and by K6PS on bicycle. W6KJI monitored base to furnish immediate telephone service if required.

The exercise was an unqualified success and raised an estimated $7500 to $10000 to help hungry and needy people in our area through the numerous food closets of the Ecumenical Hunger Program.

All those returning at the end of the walk were greeted with hot soup, home made bread and a program of music by the Stanford Research "Institooters" and the Stanford Gospel Choir.

Many thanks for a job well done.

+++ "73s!, N6CHL,

PICNIC CORNER: PAARA SPRING PICNIC—SUNDAY, APRIL 26
HUDDART PARK
MINWO SHIELDER
10AM - 2PM Admission $2 per car
Bring your own food

PAARA will provide DOOR PRIZES,
Charcoal fire,
Soft drinks,
Coffee,
Beer.

No dogs allowed in the park.

THE ANTENNA FARM: A new strong signal has been added to the list of localpileups. On Saturday, March 14, Dave, K66UP, with the help of PAARA members, put up a KLM-34A tri-bander.

A last minute check of critical dimensions revealed the front driven elements were short by 1 1/2 inches. A quick fix and the aluminum cloud was ready. Those helping Dave, and Chief Engineer Fred, K6YT, and in the order of arrival were Swede, N6CHL; Bob, W6BPH; Doug, K5DXR, making an exclusive trip from Texas via Baltimore; Bill, N6CH; and Lou, K6TM.

A near disaster occurred when, with boom resting on shoulders, K6YT and W6BPH found Dave had mounted the boom plate upside down.

Four hours after initial donuts and coffee, the crew were ready for some suds and a trial run. The KLM-34A now perched at 23 feet and below a KLM-16C on the Tristao crank-up was ready. Initial efforts to load up the TS-120 with full RP failed, the culprit a dirty 10-meter band switch. After correcting the problem a signal report from Mississippi revealed the KLM was approximately 2.8 units, or 12 db
below a comparison check on a converted CB PDL II two element quad.

A check of VSWR on Sunday indicated total frequencies covered, with the exception to 28.0 to 28.2 were less than 1.5 to 1. A second signal report from S. Dakota confirmed the earlier 10-meter report. However reports on 15 and 20 should be higher than previously received on the 40mV.

Many thanks to all that participated. Anyone game for a x-rated modification?

de Dave, KB6WP.

+ + +

TO CONTINUE: Ed, W6KJJ, is continuing his search for material to enable him to raise his tower to its full height so he can reach out farther on the Pacific Maritime Net (Monday thru Friday, 21404MHz, 2215Z).

AND MORE: Ed, W6KJJ, is looking for a tower climber to replace a looking bolt that keeps his antenna looking in the direction the box below says it is.

""

FAR FLUNG CORNER: A nice little note from Gary, W6SSH, with a contribution to PAAAGraphs (see below), his 1981 dues, and the news that he'll be back to our "land of milk and honey" again soon. We will be looking for more words from Gary—and see him at a meeting soon.

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PARTIAL REINFORCEMENT CORNER:

Psychologists have a term which describes reaching a goal or achieving a goal part of the time. The term is partial reinforcement. It means that the goal or object is not realized each time it is attempted, but that it is realized often enough that learning is successful and in fact, may occur at least as fast in a learning situation as when the goal is reached and every time.

What does this have to do with amateur radio? That's easy, it's the way things happen on the air in the pursuit of QSOs. UNLESS the ham has a BIG GUN STATION with all the trimmings. Then it's almost automatic have you ever felt like I have when I have called a DX station with my KW, big beam, tall tower, low loss feedline, and had him come back to someone else instead...and be irritated because my timing was right, my frequency was right, my operating style was good...and he had the nerve to come back to another station! Expectation = 100% return on calls! Partial reinforcement? No...that is an expectation of 100% reinforcement. Where does "fun" figure in on this?

Now consider the possibility of partial reinforcement:

Using that same big beam, low loss feedline, tall tower, proper operating, and run 1 watt output... (with solar power for example). I have had the delight recently of using a Heath EM-9 rig barefoot and had the great fun of having good DX come back to my call. I worked a UR2 the other night with a 569 report for me and there I sit, running around 3 watts input on 20 cw and probably not more than a watt and a half out of the rig into the 130' run of RG-8u foam coax. No...I did not get him on the first call...I think it was the second...but FUN...yes it was fun. I have heard hams talk about real QRP for years, but I submit to you that you ought to try it. Let the KW rest in the corner for a while. See if you can work WAC in a week with 5 or 10 watts or less. Partial reinforcement? Yup...they don't come back on the first call...but the pleasure when they do come back is greater...at least to me it is.

PARTIAL REINFORCEMENT = 1 watt + DX = FUN

73 es DX.... Gary W6SSH

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CONTEST CORNER: Work Switzerland 1500Z April 25 until 1500Z April 26 and/or try Spain in the Trophy K. M. King of Spain Contest from 0000Z April 25 until 0000Z April 26 (but not during the Club picnic).

For closer to home, the Utah QSO Party will run 24 hours UTC April 25, and County Hunters SSB Contest from 0001Z May 2 until 2400Z May 3.

Then go far afield again with the Alexander Volta RTTY Contest where they give multipliers if you manage to work RRTY during the contest. And the World Telecommunications Day Contest May 9 on phone and May 16 for cw. The CW Contest will let you work more Russians in an hour than you normally could in weeks from 2100Z May 9 to 1000Z May 10.

But don't try to but in on the Rocky Mountain Division QSO Party because they accept only Colorado, New Mexico, Utah and Wyoming stations.

On the 30th and 31st of May comes the second half of PAAAGraphs contest, the G&WN WDX Contest, cw, and the Throamerican Contest (phone)

It would be fun to try them all QRP to see what would happen.

+ + +

UNCLASSIFIED CORNER: This space is available.

FOR SALE: Heath Digital meter (Im1210), factory assembled; $50.

WANTED: Interested in (cheap) 450 mobile rig. If you have or need, call Robert Taylor, KAGNA at 321 5089 or see him at the meeting.

FOR SALE: Ten Tec Century 21 HF Transceiver with digital display—full break-in—full 10 meter capabilities. $400. Rob, KAGNA.

FOR SALE: Lafayette Short Wave Receiver. Solid state, AM-AM-SSB, 5A-500A. Make offer. See Karl, KAGJR or call 494 6468.

FOR SALE: CPI Frequency Counter, receive/transmit $100. See Dave, KB6WP.

HAMFEST: Fresno, California, May 15-17, 1981. Always one of the best anywhere. Ham radio, golf, wine tasting, flea markets, and NOW! The Ladies luncheon is now a MENS and Ladies luncheon from 11:30 to 1:30 p.m. with a live comedy act. See flyers and announcements everywhere.
NEW

75-Watt All-mode VHF Base Amplifier is great for use at home or for your repeater
- Work the ones you hear — 10 watts input produces a hefty 75 watts (nominal) out
- Makes a great repeater amplifier!
- Rugged, solid-state design
- Operates FM, SSB and CW

If your 2-meter transceiver has a hot receiver like the one on the VF-7401 (opposite page), you probably hear stations who can’t hear you. The new Heathkit VL-2280 All-mode Base Amplifier will solve that problem for you, giving you a hefty 75-watt (nominal) signal for just 10 watts in. The VL-2280 even has a plug-in the back to power your VF-7401 or other make transceiver, so you don’t need a separate power supply. And if your club needs to update its old vacuum tube amplifier and replace it with solid state reliability, the VL-2280 is an excellent choice for a repeater amplifier. It can be operated on 120 VAC, 240 VAC or even 12 VDC backed up battery power.

The hands at Heath have engineered the new VL-2280 to operate in all modes, too — SSB, FM or CW. IMD products, incidentally, are very low when the amplifier is used on sidetone. The VL-2280 operates across the entire 144 to 148 MHz amateur 2-meter band. Broad-band circuitry maintains a stable power output across the entire band, too. This big amplifier has extra-large heat sinks to provide more-than-adequate cooling, giving you a 50% duty cycle and more “on” time. And the VL-2280 has a convenient standby/off switch so the exciter can be operated barefoot.

The illuminated front-panel meter allows you to monitor drive power, power output or relative DC voltage. The VL-2280 is DC voltage regulated, by the way. This rugged amplifier features excellent harmonic rejection and RF-sensed or remote keying. To give you maximum receiver sensitivity, insertion loss has been kept to less than 0.6 dB. The extremely rugged design is housed in a military style cabinet measuring 5 3/4” H x 13 1/4” W x 16 3/4” D. Alignment is simple, requiring only an exciter such as the VF-7401, and a wattmeter that reads forward and reflected power, like the HM-214, on page 21. Building the VL-2280 75-Watt All-mode Base Amplifier is an enjoyable three-evening project.

40-Watt Amplifier increases your range on 2-Meters

$59.95

The HA-2024 40-Watt Amplifier increases your 2-meter fun with a solid 40 watt minimum for just 10 watts in. Features completely automatic T/R switching. Tuned input/output circuits have special emitters with balanced configuration withstands VSWRs of up to 3:1. Internally adjustable to cover any 1.5 MHz portion of the 146-174 MHz band. Alignment requires VTVM, wattmeter or SWR bridge.

Kit HA-2024, Shpg. wt. 4 lbs. 58.95
HA-2024-3, 3 ft. coax. w/conn., 1 lb. 4.95

FREE delivery, within 50 miles of store, for phone charge orders that ship UPS.

-11-
HEATHKIT ELECTRONIC CENTER
2001 MIDDLEFIELD RD.
REDWOOD CITY, CA 94063
415 365 8155

NEW

VL-1180 75-watt 2-Meter Amp puts your mobile in range of more repeater fun
- 10 watts in gives you 75 watts out on 2-meter FM, SSB or CW
- Features rugged, solid-state design for mobile use

$139.95

You’re driving down the highway and can hear a 2-meter station, but you can’t work him. Then you switch on your Heathkit VL-1180 All-Mode, 75-watt AC Supply for your 2-Meter transceiver/amp combo

$84.95

The PS-1175 supplies the necessary voltage and current to power the VF-7401 Transceiver/HA-2024 Amplifier combination (or most other makes) from 120/240 VAC. Output voltage internally adjustable between approx. 12 and 14.5 VDC. Output current is 10 amps, intermittent, 10 minutes max. (5 amps continuous). Darlington circuit gives exceptionally high gain for excellent regulation. Fused for overload protection. Comes with 3-wire line cord. 9 3/8” H x 6 3/4” W x 11” D. As with all our kits, even includes solder.

Kit PS-1175, Shpg. wt. 15 lbs. 84.95

10-Watt Amplifier gives your hand-held clout!

$44.95

The HA-201A 2-Meter Amplifier will get your hand-held into your favorite repeater full-quieting every time, delivering up to 10 watts for a mere 1/10-watt in. Or 8 watts out for just 1-watt in. Great with the VF-2301, p. 12. Fully automatic operation with solid-state T/R switching. Tuned input and output for maximum efficiency, reduced spurs. Withstands infinite VSWR. Includes dummy load, RF detector, VTVM needed for Tune-up. Requires 12-16 VDC power source. 2 3/4” H x 5” W x 5 7/8” D

Kit HA-201A, Shpg. wt. 2 lbs. 44.95

Watt Mobile Amplifier. Your 10 watts in is transformed into 75 watts of QSO-grabbing power...and you’re in business!

The new VL-1180 Mobile Amplifier, like the VL-2280 described left, has been engineered to operate in all modes — single sidetone, FM or CW — across the entire 144 to 148 MHz 2-meter band. Power output is stable across the entire band, thanks to broadband circuitry. And you get a 50% duty cycle for more “on” time because extra-large heat sinks provide more than adequate cooling. Insertion loss is less than 0.6 dB, and the VL-1180 boasts excellent harmonic rejection, plus RF sensed or remote keying. The Amplifier’s rugged design means you can install it in your car’s trunk or other out-of-the-way location without worry. The easy-to-build VL-1180 is a two-evening kit, and alignment is simple, too. Get your VL-1180 today for more 2-meter mobility fun.

Kit VL-1180, Shpg. wt. 5 lbs. 139.95


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Complete communications service under one roof.

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