



# PROSPECT HILL INTERMOD

THE OFFICIAL NEWSLETTER OF THE WALTHAM AMATEUR RADIO ASSOCIATION  
& THE HEAVY HITTERS

[www.wara64.org](http://www.wara64.org)

FALL 2016

## INSIDE THIS ISSUE!

- GO BOX
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## EQUIPMENT LOAN TO MEMBERS

WARA owns a couple HF and 2 meter transceivers for field day use and is not for sale, however will make available to loan members if needed on a temporary basis. Please contact John, N1JAF for details.



## GO BOX

DON EKLUND, N1EDF



I built this box to make field day and camping trip well organized. This unit can run on 110 volt power from the grid or from my 200 watt Honda generator. It can also run on a 12 volt deep cycle battery if needed.

I mounted an SO 238 on the side of the box to receive my dual band 2M/70CM antenna for the Kenwood TM-D710.

For HF I use a 100 ft. end fed dipole 80-6 portable HF antenna Matchbox system or the Alpha antenna multibank 6-80 tuner free portable antenna.



The parts and equipment list I built it with are as follows.

- 4U 19 inch rack case with removable front and back covers.
- 2 19" rack shelves
- Icom IC-7000 HF/2M/70CM
- Kenwood TM-D710 2M/70CM with BLuelight for APRS
- Alinco DM-330FXT 30A power supply with USB ports
- Rigrunner 4004 power strip with USB ports for LED lights strips
- Super PWRgate PG40S
- Tigertronics Signalink USB for digital mode operation
- LDG AT-100ProII Antenna Tuner

## WARA QUIZ

ROGER COULSON, WA1NVC

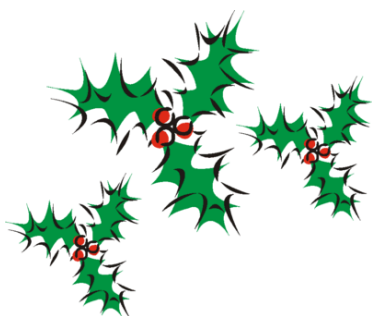
A bit of WARA history, good trivia or an age test, call it what you will. Many of you may not know but both the original 2m and 70 cm repeaters did not have duplexers. The 70 cm repeater used 2 antennas with vertical separation and the 2m repeater used 2 antennas with horizontal separation. Here are some other facts to chew on.

1. What was the original frequency pair of the WARA 2m repeater?
2. Which repeater went on the air first? 2m or 70 cm? .
3. What was the original frequency pair of the WARA 70 cm repeater?
4. Who put up the first WARA 2m repeater?
5. Who put up the first WARA 70cm repeater?
6. What was the Quadraphonic Repeater Controller Project?
7. What did K1MON do to assist with the conversion of 2m repeaters to the standard 600 KHz split?

See answers on page 3

## HOLIDAY DINNER PARTY

JOHN FLOOD, N1JAF



Hi Kids,

Sichuan Garden  
411 Waverly Oaks Rd. - Suite 109  
Waltham, MA

Monday Dec. 12 at 7PM

\$25/person cash, exact change please,  
includes buffet tax tip, all drinks are to

additional and payment will need to be made to the waitstaff. Also included is one entry into the door prize drawing for an Alinco DJ-500. Other prizes include some new in the package 2015 ARRL handbooks. If you join or renew your membership between now and the night of the dinner you can get extra tickets for the drawing as follows:

Join or renew for one year for \$20 and get 1 additional ticket.

Join or renew for two years for \$40 and get 3 additional tickets.

Join or renew for three years for \$60 and get 6 additional tickets.

Or if you want to buy additional tickets on site, a donation to WARA of \$1 each or six tickets for \$5 (exact change or checks only) will get you additional entries into the prize drawing.

Please RSVP by email before Dec. 7 to:

John Flood N1JAF  
978-979-2807  
email kb1fqg@yahoo.com



### WARA OFFICERS

**PRESIDENT** – John Flood **KB1FQG**  
**VICE PRESIDENT** – Richard Amirault **N1JDU**  
**TREASURER** – Rich Comer **K1RBC**  
**ASSISTANT TREASURER** - Eliot Mayer **W1MJ**  
**SECRETARY**- Ron Senykoff **KG1T**



## W.A.R.A. REPEATERS

Input	Output	PL in	PL out	Call
6m off	6m off	6m off	6m off	off
**146.04	146.64	136.5	136.5	W1MHL
223.34	224.94	none	none	W1MHL
444.075	449.075	88.5	none	W1MHL
902.1375	927.1375	131.8	100	W1MHL

\*\*2 Meter EchoLink Node 490278  
2 Meter Apco25 NAC is 293



Continued from page 2

### Quiz Answers:

1. 146.01 in/146.64 out
2. 70 cm by a few days as that crystal came in first.
3. 444.05 in/449.05 out
4. George Caswell K1MON (SK) and others.
5. Chuck Martin WA1KPS (now KO1I) and others.
6. Ask Eliot...
7. He ran an xtal exchange so people could swap xtals for the ones they needed.

ROHN, as the largest tower manufacturer in the United States, provides outstanding commercial quality equipment for amateurs. We're best known in this field for our crank-up, fold-over and #25G towers. Like all our big commercial towers, they're hot-dipped galvanized after fabrication according to EIA specifications. We also make commercial hardware and accessories for amateurs use, too, and it's all designed with an understanding of your needs, particularly in the area of quality. And don't overlook our constant search for new ideas, processes and products—just for you. Keep an eye out for the ROHN name. It's well worth your while.

# ROHN THE QUALITY PEOPLE

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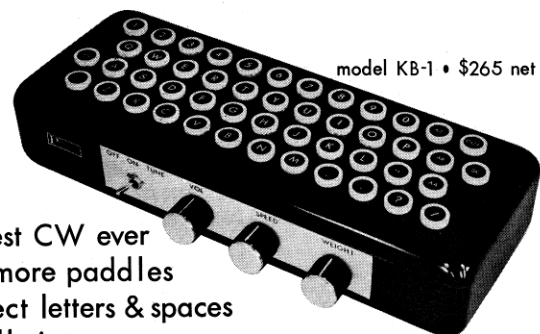
Systems Office —  
Box 97, Richardson, Texas 75080  
Phone 214-A01-9401

Western Office  
310 Quincy Street, Reno, Nevada 89502  
Phone 702-322-9300

Eastern Office  
P.O. Box 2101  
Hanover, Mass. 02339  
Phone 617-668-2511

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# TOTAL

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### HQ-100A

General coverage for the Novice, SWL, and most critical amateur at a popular price ..... **\$189.00**



### HQ-110A

Dual conversion and Q-Multiplier for amateur-band-only performance. .... **\$249.00**



### HQ-145X

General coverage with dual conversion, crystal filter, and one crystal controlled channel for WWV, net or CD ..... **\$279.00**



### HQ-170A

The Single Sideband Specialist. Triple conversion and Amateur only coverage ..... **\$369.00**



### HQ-180A

General coverage versatility combined with unequaled amateur band-spread ..... **\$439.00**



### HX-50

Compact, filter type, SSB transmitter rated at 130 watts P.E.P. and CW. .... **\$449.50**



### HAMMARLUND MANUFACTURING COMPANY

A Giannini Scientific Company  
53 West 23rd Street, New York 10, N.Y.

I'm interested. Please send me full line catalog.

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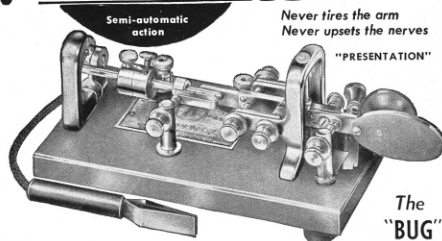
CITY & STATE .....

VIBROPLEX MAKES SENDING EASIER THAN EVER BEFORE!

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**Rich Design** — 24-k. gold plated base cap, polished chromium machine parts, red trim and jewel movement make the Presentation good to look at and fine to use. Deluxe only \$55.95.

## VIBROPLEX

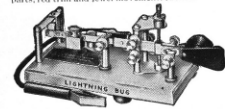


The "BUG"



### Vibroplex Original

Acclaimed by thousands of the world's finest operators for ease of operation, clean signals and all-around sending excellence. Precision machined, trouble-proof and efficient. A strong favorite of the elite. Standard, with circuit closer, grey base and chrome top parts, \$22.45; Deluxe, with polished chromium base and top parts, red trim and jewel movement, \$26.95.



### Vibroplex Lightning Bug

New, improved design frame, a flat, endurable bar with slotted weights that can't work loose, an instantly adjustable dot contact spring that may be removed without disturbing speed weights, a bridged damper frame that protects key against damage. Precision machined, trouble-proof and adjustable to any speed. Standard with circuit closer, grey base and chrome top parts, \$21.45; Deluxe, \$25.95. Cord and wedge \$1.75 additional.



### Vibroplex Carrying Case

Keeps key like new. Black simulated morocco. Flexible leather handle. Protects key against dust, dirt and moisture, and insures safe-keeping when not in use. With lock and key. Priced at only \$6.75.

World's No. 1 Key

Semi-automatic action

Never tires the arm  
Never upsets the nerves

"PRESENTATION"

### Vibroplex Actually Does The Work For You

**Send Better** — Vibroplex signals are uniformly good at any speed. They are strong, clean and easy to read. You'll like them.  
**Send Easier** — A perfectly balanced key and freedom from nervous and muscular tension is the easiest way — that's Vibroplex.  
**Send Faster** — No handsender can match Vibroplex speed. More speed than you'll ever need, but you've got it.  
**Send Longer** — Many Vibroplex keys are still in use after 30 years. Nothing to get out of order.



### "VIBRO-KEYER"

The Vibro-Keypex supplies the answer to the demand for Vibroplex parts to be used with electronic transmitting units. Its beautiful beige colored base is 3 1/2" by 4 1/2" and weighs 2 1/2" pounds. It uses the Deluxe Vibroplex contacts, main frame and super finished parts. Colorful red finger and thumb pieces. Has the same smooth and easy operating Vibroplex trunion lever, adjustable to your own taste. Standard, at \$17.95; Deluxe, with Chrome Plated Base, \$22.45.

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Thank you to all who have contributed to this issue of PHI. We greatly appreciate the time you took in sharing your knowledge! We are always looking for articles and new material to publish. Please send in your photos, announcements, story or short article (technical or not) at any time, for the next issue of PHI!

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Submit all articles to [k1kgg@yahoo.com](mailto:k1kgg@yahoo.com)

The Waltham Amateur Radio Association is affiliated with the A.R.R.L





# WALTHAM AMATEUR RADIO ASSOCIATION

[www.wara64.org](http://www.wara64.org)



## MEMBERSHIP AND CHANGE OF ADDRESS FORM

The Waltham Amateur Radio Association operates repeaters on 6 Meters, 2 Meters, 220 MHz, 440 MHz, and 900 MHz. The repeaters are free and open for everyone to use. But repeaters have bills to pay, just as you do. Your membership dues help support these repeater expenses, as well as help to keep you informed about club activities and other aspects of ham radio. Individual membership is \$20 annually. Family membership (members all in same household) is \$30.00 annually. If you cannot afford the annual dues, please send what you can. If you are inclined to donate more, we will put it to good use. If you are over 64 years of age, membership is FREE! However, you must still submit your application.

You can join or renew at [www.wara64.org/membership.htm](http://www.wara64.org/membership.htm) or complete this form legibly, and return it to:

**Waltham Amateur Radio Association, PO Box 411, Waltham, MA 02454**

### Member 1:

Name \_\_\_\_\_ Call Sign \_\_\_\_\_  
Street \_\_\_\_\_  
City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_  
Telephone # \_(\_\_\_\_\_)\_\_\_\_\_ Are you an ARRL member? \_\_\_\_\_  
Email (for newsletter)\_\_\_\_\_

### Member 2:

Name \_\_\_\_\_ Call Sign \_\_\_\_\_  
Telephone # \_(\_\_\_\_\_)\_\_\_\_\_ Are you an ARRL member? \_\_\_\_\_  
Relationship to Member 1: \_\_\_\_\_  
Email (for newsletter)\_\_\_\_\_

*For additional family members please attach their information to this form*

### Payment Enclosed:

- ☐ Individual Membership for \_\_\_\_\_ year(s) @ \$20/year nominal: \$\_\_\_\_\_  
☐ Family membership for \_\_\_\_\_ year(s) @ \$30/year nominal: \$\_\_\_\_\_  
☐ Over Age 64 Membership for \_\_\_\_\_ year(s) @ FREE \$ **NO CHARGE** \*See note below

*\*Please remember to keep your membership up to date by renewing and don't forget to notify us if you have moved. Thank you for joining WARA*