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THE

## 14-gain roto-brake

16" diameter Great Circle Indicator multi-colored world map makes a decorative as well as practical unit for your ham shack. Countries and call areas outlined and labeled. Moving wedge of light  $10^\circ$  wide at perimeter shows beam width and direction at every moment. Circumference calibrated in  $1^\circ$  units. Available centered on West Coast, Midwest or East Coast. Compass rose available for other countries.

**1000 IN. LBS. ROTATING POWER  
5 INCH TONS BRAKING POWER**



**\$19995  
Complete**

Attractive, wrinkle-finish rotobrake control box for mounting under operating desk . . . Master on/off switch, rotation control lever and fuse. Furnished with 10' connecting cable.

Roto-Brake utilizes high carbon machined steel gear and rack, reinforced aluminum castings and massive construction throughout . . . Powerful capacity high starting torque motor assembly. Limit switches at due North prevent continuous rotation . . . Safety switch on brake allows motor to be energized only after brake is released. Mounts in steel tower with 10-18" inside clearance . . . Kits available for side mounting on small towers and pole or pipe masts.



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14-gain antenna products

1135 NO. 22ND • LINCOLN NEBRASKA

**ASK FOR OUR FREE NEW  
COMPLETE ANTENNA CATALOG**

For further information, check number 18 on page 126.

20 • CQ • October, 1960

veloped by the medical and health professions of our country to the various countries needing their help.

Project HOPE is a project not of our government, but a project of the people of the United States, who want to help people of other countries. It will be an expensive project; even with donation of the use of the ship, it will take at least \$3,500,000 for the first year.

Would you like to help? Contributions in any amount are welcomed. They should be sent to Project HOPE, Box 9808, Washington 15, D.C.

While at this point it is not definite, we are advised by Ralph Charbeneau, W8OLJ, that ham radio equipment will no doubt be installed aboard the "HOPE", enabling the U.S. personnel aboard to talk to homes and families from Southeast Asia, the first area to be visited. Hams will have another unique opportunity to show that they render a very real communications service, where no other exists.

### Announcement

Editors of amateur radio club publications are invited to send a monthly copy of their papers to me (QTH at head of column) to be considered for inclusion herein. I'll also be happy to tell editors how they might join a free amateur paper news service through which they can secure interesting copy for their periodicals.

### 144 MC Band Converter, CQ, August 1960

John Specialny, W3HIX, author of "A Transistorized Converter For The 144 MC Band", August 1960, page 40, informs us that transistors T1694, T1695 and T1696 are now discontinued and are replaced by T1832, T1859 and T1833 respectively. Also, if 3 ma is desired at the collector of the r.f. amplifier the values of  $R_1$  and  $R_2$  should be interchanged.



### Syracuse V.H.F. Round-Up

The sixth annual Syracuse V.H.F. Round-Up, sponsored by the Syracuse V.H.F. Club, will be held October 8, 1960 at Three Rivers Inn, located eight miles north of Syracuse on route 57, exit 38.

Registration starts at ten AM for the Early Birds and for others at twelve thirty PM. Pre-registration only 5.50. For tickets and information contact Bill Burns, 779 Fay Rd., Syracuse 4, New York.

### Northeastern DX Association

The Northeastern DX Association will hold its annual dinner and meeting on 8 October 1960 at 7:30 PM at the Hot Shoppes Restaurant and Towne House Motel in Albany, New York. Dinner tickets are \$5.00 and any active DXCC holders are welcome. Motel reservations will be made in advance for out of town visitors. All reservations must be made before 1 October 1960. A DXpedition movie will be shown as part of the program. Menu includes a choice of Roast Beef or Turkey. Please state choice when making reservations. Address all correspondence and reservations to NEDXA c/o K2UVU, 117 Shaker Road, Albany 11, New York.

### New York Ham Convention

One of the largest and most elaborate ham conventions ever planned will be held at the Statler-Hilton Hotel in



## CITIZEN BAND CLASS "D" CRYSTALS

All 22 Frequencies in Stock

3rd overtone. .005% tolerance - to meet all F C C requirements. Hermetically sealed HC6/U holders.  $\frac{1}{2}$ " pin spacing - .050 pins. (.093 pins available, add 15¢ per crystal).

**\$2.95  
EACH**

The following Class "D" Citizen Band frequencies in stock (frequencies listed in megacycles): 26.965, 26.975, 26.985, 27.005, 27.015, 27.025, 27.035, 27.055, 27.065, 27.075, 27.085, 27.105, 27.115, 27.125, 27.135, 27.155, 27.165, 27.175, 27.185, 27.205, 27.215, 27.225.

Matched crystal sets for Globe, Gonset, Citi-Fone and Hallcrafters Units . . . \$5.90 per set. Specify equipment make.

### RADIO CONTROL CRYSTALS IN HC6/U HOLDERS

Specify frequency.  $\frac{1}{2}$ " pin spacing . . . pin diameter .05 (.093 pin diameter, add 15¢) . . . \$2.95 ea.

### FUNDAMENTAL FREQ. SEALED CRYSTALS

In HC6/U holders  
From 1400 KC to 4000 KC .005% Tolerance . . . \$4.95 ea.  
From 4000 KC to 15,000 KC any frequency . . . \$3.50 ea.  
.005% Tolerance

### SEALED OVERTONE CRYSTALS

Supplied in metal HC6/U holders  
Pin spacing .485, diameter .050  
15 to 30 MC .005 Tolerance . . . \$3.85 ea.  
30 to 45 MC .005 Tolerance . . . \$4.10 ea.  
45 to 60 MC .005 Tolerance . . . \$4.50 ea.

## QUARTZ CRYSTALS FOR EVERY SERVICE

All crystals made from Grade "A" imported quartz—ground and etched to exact frequencies. Unconditionally guaranteed! Supplied in:

FT-243 holders Pin spacing $\frac{1}{2}$ " Pin diameter .093	MC-7 holders Pin spacing $\frac{3}{4}$ " Pin diameter .125
DC-34 holders Pin spacing $\frac{3}{4}$ " Pin diameter .156	FT-171 holders Pin spacing $\frac{3}{4}$ " Banana pins

### MADE TO ORDER CRYSTALS 1001 KC to 2600 KC:

.01% tolerance . . . . .	\$2.00 ea.
.005% tolerance . . . . .	\$2.75 ea.
2801 KC to 9000 KC:	
.005% tolerance . . . . .	\$2.50 ea.
9001 KC to 11,000 KC:	
.005% tolerance . . . . .	\$3.00 ea.

Specify holder wanted

### Amateur, Novice, Technician Band Crystals

.01% Tolerance . . . \$1.50 ea.—80 meters (3701-3749 KC), 40 meters (7152-7198 KC), 15 meters (7034-7082 KC), 6 meters (8335-8650 KC) within 1 KC  
FT-241 Lattice Crystals in all frequencies from 370 KC to 540 KC (all except 435 KC and 500 KC) . . . 50¢ ea.  
Pin spacing  $\frac{1}{2}$ " Pin diameter .093  
Matched pairs  $\pm$  15 cycles \$2.50 per pair  
200 KC Crystals, \$2.00 ea.; 455 KC Crystals, \$1.50 ea.; 500 KC Crystals, \$1.50 ea.; 100 KC Frequency Standard Crystals in HC6/U holders \$4.50 ea.; Socket for FT-243 crystal 15¢ ea.; Dual socket for FT-243 crystals, 15¢ ea.; Sockets for MC-7 and FT-171 crystals 25¢ ea.; Ceramic socket for HC6/U crystals 20¢ ea.  
Write for new free catalog #860 complete with oscillator circuits

ASK YOUR PARTS DEALER FOR TEXAS CRYSTALS  
See big red display . . . If he doesn't stock them, send us his name and order direct from our Florida factory.

RUSH YOUR ORDER TO OUR NEW PLANT  
Use coupon below for 1st Class shipment.

## TEXAS CRYSTALS

Dept. C-100, 1000 CRYSTAL DRIVE, FORT MYERS, FLORIDA  
For extra fast service, Phone WE 6-2100

ATTACH THIS COUPON TO YOUR ORDER FOR SHIPMENT VIA  
1ST CLASS MAIL AT NO EXTRA COST

TERMS: All items subject to prior sale and change of price without notice. All crystal orders must be accompanied by check, cash or M.O. with **PAYMENT IN FULL**. No COD's. Dept. C-100

For further information, check number 20 on page 126.

New York on October 15th. The Convention will run from 9 AM until the banquet at 7:30 PM. This is going to be one of the busiest days in ham history with a complete program of talks and discussion groups on almost every specialized ham interest. There will be exhibits by just about every manufacturer in the ham field, plenty of space for rag chewing on your favorite subject, prizes by the gross, and a huge capping banquet with Jean Shepherd K2ORS as Master of Ceremonies and a feature talk by Bill Orr W6SAI.

Tickets may be purchased at the door or from HARC Convention, Box 971, New Rochelle, N.Y. Send \$9 for a combination Banquet and General Admission ticket or \$1.50 for General Admission only (50¢ less for YL's and XYL's).

### Testimonial Dinner For Dr. George W. Bailey

The Single Sideband Amateur Radio Association will join the Quarter Century Wireless Association at its annual dinner on October 14th in sponsoring a testimonial for Dr. George W. Bailey, W2KH, Executive Secretary of I.R.E. and former President of A.R.R.L.

This affair will be the opening event of the Hudson Division A.R.R.L. Convention. The dinner will be held at the Shelburne Hotel at Lexington Avenue and E. 37th Street, New York City.

Tickets can be obtained by contacting Fred Huff, W2AMB, at 8712 31st Avenue, Jackson Heights 69, New York.

Other convention events will be held on Oct. 15th at the Statler-Hilton Hotel at Seventh Avenue and W. 33rd St., N.Y.C.

### S.S.B. Program For Hudson Division ARRL Convention

Arrangements have been made to present an outstanding s.s.b. forum at the Hudson Division ARRL Convention sponsored by HARC. It will be held on October 15, from 2 to 5 PM at the Statler-Hilton Hotel, Seventh Ave. and W. 33rd St., N.Y.C.

The moderator will be Ed Piller, W2KPK, President of the SSB Amateur Radio Association. The program will include:

"Various SSB Applications For the New Beam Deflection Tube" by Harold Vance, Sr., K2FF, Manager Sales Engineering, RCA Tube Division.

"SSB From A to B" by Dorothy Strauber, K2MGE, and Irv Strauber, K2HEA, Editors of *The Sidebander* and the CQ SSB Column.

"Details of Design and Quality Control of Transistorized Mobile SSB Equipment" by Fritz Franke, Assistant to the President. The Hallcrafters Company.

"Larson E. Rapp Goes SSB" by Marty Bettan, K2JKX.

### North Penn A.R.C.

The following have been elected officers of the North Penn Amateur Radio Club for the fiscal year June 1, 1960 to May 31, 1961:

President: Major M. R. Jones W3DHJ  
Secretary: Carolyn B. Currens W3GTC  
Please address all communications to the Secretary.

### Signal Seekers Award

The "Signal Seekers" is a club established for fun and service in the Whittier California area. The club was organized in 1958. We meet the second and fourth Saturday of each month.

The purpose of the club is to better qualify the members in operating the amateur mobile radio for civil defense and disaster work, thereby aiding the community.

First a transmitter hunt - sometimes one - sometimes many depending on what the hidden transmitter decides upon. After the hunt we take turns serving coffee and donuts and have a business meeting.

We have decided to give a certificate to anyone meeting the requirements. Any station working four member stations from outside Los Angeles or Orange county, or visitors to Southern California working four members from anywhere qualify.

### Okinawa Cotton Pickers

A new certificate is being offered from KR6 land! In Zone 25, by staying in a roundtable type QSO for three hours with at least three of the charter members of the Okinawa Cotton Pickers Club, the certificate is won. For