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# RADIO SHACK

per Inc. 2017 Month of the Conference of the Section of the Sectio

### 244 North Front Street BELLEVILLE Tel: 968-922

QUINTE QRM
Box 777
Campbellford
Ontario



on Chapman, S. 549 Sunny S. Bellie.

QUINTE QRM



QUINTE AMATEUR RADIO CLUB VE3BSQ

BULLETIN EDITOR RICHARD MAKI BOX 777 CAMPBELLFORD

COVER SUPPLIED COURTESY OF BOOTH TELEVISION & RADIO LTD. 5 MARKET SOUARE, BELLEVILLE, ONT.

### APRIL 12, 1972 MEETING

TIME: 8 P.M.

PLACE: Loyalist College Building "B" Room 309

### PROGRAMME:

- 1. 25th ANNIVERSARY MEETING. Speaker Mr. Harold Carruthers, VE3NW. Harold was our first President 25 years ago. He will take us back through the years to all the people and events of the past 25 years of Club activity. You will hear about interesting characters, events and humorous happenings that is the world of amateur Radio. Harold is a master story teller and his experiences go back to the days before the Club existed.
- The speaker will be introduced by Roy White, VE3BUX. There is nothing like having one old timer tell all he knows about another old timer. Roy has been working on this for weeks - you will hear things about Harold that even he doesn't know.
- 3. There will be a display of old magazines, programmes, Field Day pictures, Banquet Pictures, Certificates and Newspaper Clippings. (Bring yours)
- 4. Door Prizes galore, a solid state oscillator, wire, solder, ARRL, Publications, Meters, Tape, QSL Cards.

RSO Log book donated by H. Fralick ARRL Handbook donated by Roy White ARRL VHF Manual donated by Bill Jones ARRL SSB Manual donated by Arnold Duke ARRL Antenna Manual donated by H. Fralick

### PRESIDENT'S MESSAGE

As we look back over the last twenty-five years since the Quinte Amateur Radio Club was formed in Belleville, we have seen many changes in amateur radio; single side band, slow scan TV, radio teletype and other modern modes of transmission. Many hams today, find it much easier to get on the air than in the early days, with easy-to-build kits or those transceivers which are ready to be plugged into an AC outlet, hooked to an antenna and place a CQ and get an answer first call. But, one finds that the general interest is being lost, you don't hear too many new calls these days. Oh yes, you may say that you have heard some old timers back on after an absence of twenty years or more, but how many new hams have you heard lately? What are you going to do about it? Nothing? There may be a chap who just lives around the corner who is taking electronics in school and would be glad to accept your invitation to visit your QTH to look over your station.

Many of us find ourselves devoting less and less to our hobby today and are taking less interest in our Club. Our membership is not increasing the way it should with the number of amateurs which we have in the area. Can't we do something about stimulating an interest and bringing new blood into the Club and out to our meetings? The programmes presented at each and every meeting are excellent, but only a few come out to enjoy and appreciate them.

We need your assistance to make our Club better, we are always open to suggestions. Whether you think yours is worthwhile or not, bring it forth and we will listen.

### DX TOPICS

One of the greatest thrills of ham radio is talking to the far distant rare ones. How many countries have you contacted? Have you ever counted them? There are over 300 possibilities. The modern equipment today has made it much easier to talk to some of the remote areas of our globe, on S.S.B. and for those who are CW oriented, it is even easier.

Some think it is merely a matter of giving calls and exchanging reports on DX contacts. Yes - with contest contacts, but not always. It is most interesting to explore some of the differences between the foreign countries and Canada and the interest of course, is just as great on the other end. When talking to somebody in Africa near the equator there is keen interest when I tell him that I am watching the snowmobiles go by on the frozen surface of the bay. The question frequently comes back "What is a snowmobile?"

Tasmania isn't considered great DX, but as an example of how an II,000 mile contact can develop, I will relate my experience after a contact with VK7RX in Hobart, Tasmania. Keith has hobbies which are the same as mine - radio, gardening, photography, and philately. A common interest in philately was the start of a friendship. We exchange mint stamps back and forth; we compare gardening tactics, successes and failures, trade pictures, exchange DX information on where and when to find the rarer ones and have been maintaining a weekly schedule for several years. We know one another and the details of our family lives better than we do some of our local friends.

We arranged by radio for a good friend of mine from Toronto to be met in Hobart as he stepped off the plane and spent a weekend touring the Island of Tasmania with Keith. As a result of this visit, Keith is probably a little better informed about me and me about him!

Tasmania is a great producer of apples and ships to Australia and Great Britain. I had heard so much about the fame of Tasmanian apples that I felt Keith needed some convincing on our local apples, so last fall I carefully selected the largest and choicest looking specimen from the trees in my yard, shaped a bed of plastic foam to fit and protect it and sent it via air mail to Keith and his ex yl Mollie. The comments from Tasmania were highly complimentary and it was admitted that Tasmania did not produce anything like our MacIntosh.

Why not explore the possibilities on the higher frequencies? There is DX to be worked on 75 meters also, and this past winter conditions have been good and working 100 countries for your 5 band DX CC would not have been oo difficult. It is not nearly the fun nor as easy as on 14, 21, or 28 Mc. Yes, there have been some marvelous openings on 28 Mc. during the past couple of months regardless of the sun spot cycle. Interested? Here are some to look for:

April 15th to 22nd. Helvetia 22 contest.

May 6th & 7th U.S.S.R. contest

May 12th to 15th Navassa Island DXpedition - around the clock operation by 6 operators from Atlanta, Georgia.

Look for them on 3530, 7030, 14030, 21030, 28505 CW.

3905, 7255, 14280, 21355, 28605 SSB.

U.S.S.R. is using special calls incorporating the numeral "50" to observe their 50th anniversary of U.S.S.R. and calls such as UA5 $\emptyset$ A, UC5 $\emptyset$ .. will be heard.

### FORMER EXECUTIVES Q.A.R.C.

	FORMER EXECU	TIVES Q.A.R.	C.
1947		1957	
President Vice-Pres.	Fred Darnell Harold Carruthers, VE3AOP, VE3NW	President Vice-Pres.	Clare Hunt, VE3BMH Gord Turney, VE3ASD
Secretary	Gene Hitchon, VE3AJS, VE3NN		
Treasurer	Jack Warner, VE3ADJ Don Campbell	Secretary	Norm Moore
i i edadi ei	vack warner, veshoo bon campberr	Treasurer	
1948		Field Day	W. Barrie, VE3AAS
President	Harald Carrythorn VEZACE VEZNIN	Bulletin	H. Fralick, VE3CAB
	Harold Carruthers, VE3AOP, VE3NW		
Vice-Pres.	Jack Warner, VE3ADJ	1958	384 45
Secretary	Gene Hitchon, VE3AJS, VE3NN	President	N. Moore
Treasurer	Don Campbell, Harry Overend	Vice-Pres.	Erol Lind, VE3EHI
1040		Secretary	Ron Chapman
1949	Harald Orange Haran METANIA	Treasurer	H. Pitt, VE3BND
President	Harold Carruthers, VE3NW	Bulletin &	Field Day H. Fralick, VE3CAB
Vice-Pres.	01 V 1:- 0-11:		
Secretary	Chas. Young, Jim Colligan	1959	10 - 10.
Treasurer	Chas. Young, VE3BUV	President	Ron Chapman
	Roy White, VE3BUX.	Vice-Pres.	W. Thompson, VE3RW
1950		Secretary	Peter Trill
President	Roy White, VE3BUX	Treasurer	A. Duke
Vice-Pres.	Harold Carruthers, VE3NW	Bulletin	H. Fralick, VE3CAB
Secretary	Gene Hitchon, VE3NN		
Treasurer	Gene Hitchon, VE3NN	1960	
	C. Young, VE3BUV	President	Bill Thompson, VE3RW
1951		Vice-Pres.	W. Collis, VE3EHT
President	W. Barrie, VE3AAS	Secretary	Bob Sands, VE3BOB
Vice-Pres.	Roy White, VE3BUX	Treasurer	H. Pitt, VE3BND
Secretary	W. Coombs, VE3VA	Field Day	Gord Turney, VE3ASD
Treasurer	C. Young, VE3BUV	Activities	Ross Dryden, VE3AUU
		Programme	Ron Chapman
1952		Bulletin	H. Carruthers, VE3NW
President	Al Smith, VE3BCV		
Vice-Pres.	Ross Dryden, VE3AUU	1961	
Secretary	H. Fralick, VE3CAB	President	Wally Clarke, VE3CBE
Treasurer	Pete Burnett, VE3CCG	Vice-Pres.	George Miluck, VE3AIL
		Secretary	Harry Wood, VE3DGC
1953	0.00 N.S. 1010 O 1010 Errayanas	Treasurer	Hertel Rennie, VE3IU
President	H. Fralick, VE3CAB	Field Day	Ross Dryden
Vice-Pres.	Al Bakyta, VE3BHK	Programme	Bill Collis
Secretary	H. Pitt, VE3BNP	V.H.F.	Bob Sands
Treasurer	Mike Williams, VE3AGT		s Stow Leighton
1054		Bulletin	Harold Carruthers
1954	D. Alex Develo		
President	Dr. Alex Bruels	1962	
Vice-Pres.	Ross Dryden, VE3AUU	President	George Miluck, VE3AIL
Secretary	Jos. Overtveld (ex PAØ)	Vice-Pres.	Hertel Rennie, VE3IU
Treasurer	R. Chariton, VE3AZS	Secretary	Frank Cole, VE3BDS
LOFE		Treasurer	Ray Masse, VE3DXM
1955	D - D - 1 - VE74111	Field Day	Doug Vanderwater
President	Ross Dryden, VE3AUU	Programme	Harold Carruthers
Vice-Pres.	Joe Overtveld (ex PAØ)		Rae Lancaster
Secretary	A. Duke	Refreshment	s Bert Maloney
Treasurer	Gord Turney, VE3ASD		
1000		1963	NAME OF THE OWNER OWNER OF THE OWNER
1956		President	Hertel Rennie, VE3IU
President	A. Duke	Vice-Pres.	Ray Masse, VE3DXM
Vice-Pres.	C. Hunt, VE3BMH	Secretary	Bert Cook, VE3DHH
Secretary	Bob Sands, VE3BOB	Treasurer	Jack Erwin, VE3BHW
Treasurer	Ron Chapman, VE3BDT	(163 c	cont'd

1963 cont'd 1969 Field Day Wally Clarke Norm Waltho, VE3EXW President Chas. Elliott George Brunet, VE3BZI Programme Vice-Pres. H. Fralick Gil Stevens, VE3BBQ V.H.F. Secretary Bulletin Len Coward Treasurer George Edison, VE3DLB Refreshments Eric Schlattner Gil Stevens Bulletin 1970 1964 President Wally Clarke, VE3CBE President Ray Heath, VE3BCX Bert Cook, VE3DHH Vice-Pres. Vice-Pres. George Brunet, VE3BZI H. Fralick, VE3CAB George Edison, VE3DLB Secretary Secretary George Edison, VE3DLB Treasurer Ross Dryden, VE3AUU Treasurer Eric Schlattner Dick Maki Field Day Bulletin H. Fralick V.H.F. Ray Masse Programme Refreshments F. McDonald M. Wiltse Field Day Clare Hunt Refreshments Bert Hanson Programme Bulletin Len Coward 1971 1965 President Norm Brown, VE3CXB President Len Coward, VE3FGV Vice-Pres. Clark Steele Vice-Pres. Frank Oates, VE3ELO Secretary Wes Monk, VE3FQM M. Wiltse, VE3CYW Bill Jones, VE3HJ Secretary E. Schlattner, VE3DFX Don Davenport, VE3BPL Treasurer Dick Maki F. McDonald, VE3FWH Treasurer Bulletin H. Fralick Corr. Sec. Ray Masse, VE3DXM Programme Gil Stevens Field Day Morley Wiltse Bulletin Doug Wilson Refreshments Bert Hanson Field Day Refreshments & Entertain-1972 George Edison ment Ivan Graham, VE3GTH VHF Pete Blathwayt President Bert Hanson, SWL Vice-Pres. 1966 Secretary Bill Jones, VE3HJ Don Davenport, VE3BPL President Frank Oates. VE3ELO Treasurer Dick Maki Vice-Pres. Bert Cook, VE3DHH Bulletin Morley Wiltse Secretary Ross Dryden, VE3AUU Field Day Treasurer George Edison, VE3DLB Programme H. Fralick H. Fralick Programme Emergency Field Day Rae Lancaster Co-ordinator Don Davenport Bulletin Gil Stevens Refreshments H. Rennie Minister without Portfolio Arnold Duke EMO - RSO Rep. Bert Cook 1967 President Doug Wilson, VE3CWW Vice-Pres. Gill Stevens, VE3BBQ Secretary Treasurer George Edison, VE3DLB Arnold Duke Programme Field Day Rae Lancaster Bulletin Gil Stevens 1968 Norm Waltho, VE3EXW President Vice-Pres. George Brunet, VE3BZI

Gil Stevens, VE3BBQ

G. Edison, VE3DLB

Gil Stevens

Secretary Treasurer

Bulletin

### QARC 25 YEARS

The Club actually had its start in the fall of 1945. The November issue of Xtal Magazine contained an item to the effect that a meeting was held in the home of VE3AJS now VE3NN, Gene Hitchon. The purpose of the meeting was to discuss the possibility of forming a Club. Present at this gathering were the following:

Gene Hitchon	VE3AJS	Now VE3NN
Harold Carruthers	VE3AOP	Now VE3NW
Eddie Goodier	VE3XP	Ex VE3EDR now VE3N1
Bill Thompson	VE3RW	
Jack Warner	VE3ADJ	
Harry Hitchon	VE3AAR	
Harry Overend	VE3AAJ	
Laurie Roy	VE3SO	

Evidently there were a few meetings in private homes during 1945 and 1946. In late 1946 Harold Carruthers chaired a meeting in an endeavour to form a more permanent organization. Present at the meeting were:

Harold Carruthers	VE3AOP		
Gord Turney	VE3ASD		
George Fralick	VE3ABG	Recording	Secretary
Jack Warner	VE3ADJ	-	liA
Harry Overend	VE3AAJ		
Roy White	VE3BUX		
Bill Wilks	VE3HR		

Elections were held in October, 1947 and the following were elected as officers of the new Quinte Amateur Radio Club.

President	Fred Darnell	VE
Vice President	Harold Carruthers	VE3NW
Secretary	Gene Hitchon	VE3NN
Treasurer	Jack Warner	VE3ADJ

Fred Darnell left town and Harold Carruthers served as President in 1948, and for the year 1949 also.

### WATER UNDER THE BRIDGE

There have been many changes in the world of Amateur Radio since 1947-1948 - some good, some bad. How many do you remember ?

- 1. Phone on 40 meters.
- 2. The demise of AM with the coming of SSB.
- 3. FM on the 2 meter band.
- 4. Repeaters.
- Transceivers.
- Slo-scan TV.
- 7. Cable TV (now there's one of the good things)
- 8. E.M.O.
- 9. G.R.S.
- 10. Many changes in Field Day Rules
- II. Incentive licensing in the U.S.
- 12. And now possible expansion of U.S. phone.
- About the time the Club started, transistors were invented.
   The Radio Society of Ontario and C.A.R.F. have come into being.

- 15. Amateur Satallites. One doesn't have to have a very active imagination to visualise how a satellite on amateur frequencies could drastically change things.
- 16. It's a pretty safe bet that the next 25 years will see just about as many changes in the world of Amateur Radio as have taken place since our Club started 25 years ago.

### CONGRATULATIONS

We have received many letters and messages wishing us well in this our Anniversary Year.

We have printed a cross section of these, but of course, there is only so much room and we can't possibly get them all in.

One of these in particular that we would like to mention is from our SCM in Ottawa, Holland Shepherd, VE3DV. "Shep" says in part:

"In this day and age of built in obsolescence, and a general disregard for the old and the tried, it is a pleasure to wish the QARC a Happy 25th Birthday. The select group of amateurs who met in 1947 to form the new Club, did their planning with much foresight, and a long list of succeeding officers are ample proof."





### the canadian amateur radio federation

28 January 1972

Officers and Members,

QUINTE Amateur Radio Club

KINGSTON Amateur Radio Club

Gentlemen;

It gives me great pleasure to offer congratulations to the QUINTE and KINGSTON Amateur Radio Clubs for achieving twenty-five years of unbroken activity.

In my capacity as the Kingston District delegate to and past President of the Radio Society of Ontario, Inc I have had a long association with both organizations and have frequently commented on the very friendly rivalry that exists between the members. In fact, as President of the Society I had the distinct pleasure of presenting, in succeeding years, the Rusty Brennan Trophy for Field Day achievement to your two clubs - a most noteworthy result of your work and efforts.

Keep up the good work and only hope that I can pen a similar letter on the occasion of your joint Fiftieth anniversary,

vy 73.

Arthur E. Blick, VE3AHU

President

P.O. Box 204 AMHERST VIEW Ontario.



### THE AMERICAN RADIO RELAY LEAGUE, INC.

ADMINISTRATIVE HEADQUARTERS NEWINGTON, CONNECTICUT, U. S. A. 06111

NOEL B. EATON, VE3CJ DIRECTOR, CANADIAN DIVISION P.O. BOX 660 WATERDOWN, ONTARIO

January 25, 1972.

ROBERT W. DENNISTON WØDX, PRESIDENT

CHARLES G. COMPTON
WØBUO, FIRST VICE PRES

ROEMER O. BEST W5QKF, VICE PRES

CARL L. SMITH WØBWJ. VICE PRES

DAVID H. HOUGHTON TREASURER

JOHN HUNTOON WILVO, SEC. & GEN. MGR.

OFFICIAL ORGAN

Howard A. Fralick, VE3RL, 59 Palmer Road, Bellville, Ontario.

Dear Howard:

I understand that the Quinte Amateur Radio Club is celebrating it's 25th year of operation in 1972. May I take the opportunity of extending to the Club and all its members sincere good wishes and congratulations on this happy event.

Many amateurs are prone to take their Club for granted, but most of us owe a great debt to our local Clubs for help in getting started and providing the necessary assistance in learning something about amateur radio when first we become interested. I am sure that your Club is no different than any other in this respect, and 25 years of service to your local members is something of which you can be properly proud.

Uo

Noel E. Eston, VE3CJ.

### HIGHLITES FROM THE ARRL CANADIAN DIRECTORS' REPORT FOR 1971

- Noel anticipates that there will be an increase in Canadian League membership this year.
- 2. Life memberships have increased rapidly.
- 3. The number of Canadian Licenses has increased for the first time in two years.
- 4. Noel attended the World Conference on Space Communications in Geneva representing Region II of the International Amateur Radio Union. He reports that the D.O.C. gave unwavering support to the Amateur Service.
- Changes during the year to the Regulations concerned a modification to the 160 metre band on the west coast, due to frequency changes of Loran in that area.
- 6. Guidelines for repeater operation were updated and leave little to be desired.
- 7. Special call sign prefixes (VA and VB) were available for special events stations.
- 8. An agreement was signed with Australia permitting third party traffic dealing with Amateur Satellites.
- 9. The D.O.C. announced some changes that are not as yet in the regulations. It is anticipated that they will remove the amateur age limit, establish a new novice type of license and assign the 29,960 27,000 MHZ part of the band to the F.R.S.
- 10. The Arctic Beacon project undertaken at the request of the I.A.R.U. Region I is proved to be extremely difficult to implement. In fact the 50 MHZ one at Clyde River has been withdrawn because the amateur running it is being moved elsewhere.
- II. The item of the greatest concern to Canadian Amateurs in 1971 was docket 19162 proposing expansion of the American phone bands. Noel prepared a report on this at the request of D.O.C., which was later forwarded to the F.C.C.

### HINTS AND TIPS ON THE FTDX-400 TRANSCEIVER

(Roy A. White VE3BUX)

The YAESU line of transceivers has been marketed for some time as the FTDX-400, 400/500, 560, and now the 570. They are all basically the same and improvements have, naturally, been made in the later models. The comments herein refer mostly to the 400. The sets are well-built and deservedly popular. For those interested, "QST" for June, 1968 carries a good technical article on the FTDX-400.

A troublesome situation occurred due to the main printed-circuit-board holding screws being loose, resulting in imperfect contact with the chassis. This caused a loud microphonic howl with the slightest movement of the rig. Even a strong signal would do it. It was finally necessary to run a short flexible copper jumper from the PCB to the chassis. Don't count on the sealing paint on these screws to guarantee tightness!

I consider a cooling fan on the "final" enclosure a necessity. As a matter of fact, I personally use two muffin fans, one mounted at each end of the case and insulated from it by small rubber grommets. I have found the power-transformer to be no heavier than the law demands and it runs too hot for my liking so one of the fans keeps it, and adjacent equipment cool. The fans run at very slow speed and I have mine tied into the rig so that the fans, the 'scope, and the rig are turned on at the same time by the line control switch.

I strongly recommend the use of an "Elmenco" fused line plug. This way you have a fuse in each leg of the line. With the original set up you may have a fuse in the line leg or the neutral leg, depending on which way you plug into the wall outlet. It's cheap insurance, believe me!

If you use a crystal mike, change the R259 resistor from grid to ground of the microphone input tube to at least one megohm instead of the one presently used which is shown as 4.7K, 47K, or 470K, depending on which schematic you happen to be looking at. I've seen them all!

A spinner knob is a great convenience and can be picked up on the surplus market now and then.

The dial drive has given a little trouble and, if you experience slippage, remove the drive assembly and carefully squeeze tighter the four lugs which hold the two sections together. A new assembly can be obtained from most electronic distributors. Ask for a Jackson Ball-drive, Model D.A.F.

I used to use the VOX feature when operating CW but, due to trouble with the RL-I relay, I have used the push-to-talk switch on the mike stand instead. The contacts on this plug-in relay tend to carbonize and I have experienced instances where it failed to operate the antenna relay when it should have, resulting in the final tubes operating at normal load, but the 'scope didn't indicate any output. Another good reason for always having the 'scope in service. You can gently pry the plastic cover off the RL-I relay and, using a burnishing tool, carefully clean the contacts. Don't, under any circumstances, use emery cloth. A piece of heavy white paper is the next best thing to a proper contact burnishing tool.

The capacitors on the output side of the tank coil were rated at 500 volts and they wouldn't stand the gaff if the SWR was more than around 1.5 to 1. The newer releases of this rig use mica capacitors rated at 3kv. I changed mine and, in order to cover a wider range of impedances, used 390 pfd., for C-48 and 500 pfd., for C-86. It is a worthwhile change. I learned the hard way because, when on 20 metres, C-47, a 300 pfd. disc capacitor, let go and burned up one section of my band switch.

I recommend the use of a 2.5 mh. I25 ma. choke from the final tank output to ground. It reduces the R.F. voltage across the output variable capacitor and is a safety factor to boot in case the plate coupling capacitor, C-46, decides to give up the ghost.

Despite what some people tell you, I recommend that you leave all the tube shields in place, or funny results can occur on the higher frequencies.

Several cases have been noted where a discrepancy occurs in the setting of the "preselector-driver" control when on transmit and receive. Nobody likes to disturb factory settings, but this is one you can do without fear. Easiest way is to tune the rig up, in the middle of the band. Use the "output" meter indication to check. Now, on the "receive" position, tune the "preselector-drive" control for best results. The noise figure will do. Don't change any of the other controls. Now go back to "transmit" and, with the meter in the "output" position, carefully adjust the slug for that particular band contained in the steel enclosure immediately in front of the final tube enclosure and shown on the schematic as L-1001 to L-1005 inclusive. Do the same with the other bands which may, or may not, require adjustment. Be careful not to use too much force in turning the slugs as some may be sealed with wax. Mine didn't have any wax at all. Judicious use of a heated rod will loosen up those which have been sealed. Don't attempt to adjust the slug marked "trap" unless you know exactly what you hope to accomplish.

I personally check all my tubes every three months. The 6GK6 in particular, must be up to snuff or the total output will suffer. Incidentally, I haven't found it

worthwhile to go to any great trouble to obtain a matched pair of final tubes. They may match up today, but it could be a different story a couple of weeks from now. Neither have I found any appreciable difference between the domestic or the Japanese final tubes. After all, we know where sweep tubes originated, don't we?

I recently assisted an amateur who complained of a change in frequency of about 300 cycles when going from "transmit" to "receive" on CW. The trouble cleared up when the upper side-band crystal was replaced. Yet another case of frequency shift was cured by replacing the plunger-type capacitor shown as C-402 in the VFO.

Earlier models of this transceiver used a R.F. choke for the finals of 140 uh. It is shown as L-14 in the schematic. Later models have an improved choke with an inductance of 400 uh. I recommend the change to those who have the older version. The same thinking applies to the L-6 choke in the plate circuit of the driver tube. Earlier models used a single PI job of 250 uh. shunted by a 2.2K half watt resistor. Later models use a three - PI choke of 200 uh. I suggest the use of a one watt resistor instead of the half watt item. If you make this change, check the neutralization.

I found it to be very awkward to adjust the neutralizing capacitor so I removed it and cut a screw driver slot so it can be adjusted (using an insulated rod!) from the top. When you have this capacitor out, cut off the lug next to the final tank coil. It's altogether too close and some nasty flash-overs have occurred.

I am always interested to know of troubles you may have experienced with these rigs and what you did, or had done, to correct the problem.

### IMPORTANT INFO FOR YOUR FILE

From the C.A.R.F. Bulletin #3 March 1972.

### Banned Countries List

Cyprus, Gabun, Iraq, Pakistan, Viet-nam, Turkey, Libya, Yemen, Khmer Republic.

### Third Party Traffic Agreements

Bolivia, Chile, Costa Rica, Dominican Republic, El Salvador, Honduras, Israel, Mexico, Peru, USA, Venezuela, Trinidad and Tobago.

### Reciprocal Licencing Agreements

Belgium, Ecuador, Dominica, France, Dominican Republic, W. Germany, Israel, Luxembourg, Mexico, Netherlands, Nicaragua, Norway, Peru, Portugal, Panama, Senegal, Sweden, Switzerland, USA, Uraguay, Venezuela.

### WANTED - NEW MEMBERS

For those of you who have lost contact with the Club, the following is an attempt to convince you that you need the Club and it needs you.

In outlining some of the advantages of Club membership, do you know that the Club:-

- Publishes 10 bulletins a year.
- 2. Operates and maintains a 2 meter FM repeater in co-operation with the Pioneer A.R.C.
- 3. Takes an active part in Field Day every year.
- 4. Has 4 members on RTTY.
- 5. Has I member on SSTV.

- 6. Publishes a directory of local amateurs.
- 7. Supports E.M.O. in their simulated emergency tests.
- 8. Has 31 paid up members.
- 9. Has an Al Program Chairman. Some programmes you may have missed.
  - -Equipment demonstration by John Williams of Peterson Radio. What a show!
  - -Talk by Doug Vanderwater with slides featuring the recent conversion of CJBQ to 10kw and the antenna relocation.
  - -Pitcairn Island tape and slide show narrated by Tom Christian VR6TC. All about this tropical paradise and its people.
  - -Travelogue by Roy White featuring colour slides of his trip to Europe.
  - -RTTY talk by Bruce Little and more to come before the season ends.

Convinced? Why not join us on the second Wednesday of each month ?



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