



CRG 017

THORNLEY

R6

2594



talk

MEMBER OF TRW AMATEUR RADIO CLUB

Sponsored by Systems Employee Association



WAC
WAS
DXCC
FD'71
FD'73

AUGUST MEETING

The TRW/ARC will hold its regular monthly meeting on 27 August 1975. Time as usual, 1200-1300 in R2-1055.

Our program this month will be a slide show talk by Ron Stockton, WB6LTJ on his DX-pedition to Wallis Island (thats somewhere west of Catalina) in November 1974. All members are urged to come, and pls bring a guest.

Temporary Editor by Temp. Ed.

Our real editor, Frank Halligan is vacationing in the far east (Ohio) this month. Not wishing to leave a blank in club communications, he "persuaded" yours truly to dust off the old mill and crank out a few sheets to keep the troops informed. We can't say how much of a pleasure it is Frank, 'cause it ain't! But we'll try our best to make it fill the gap until you are back.

Ed, W6RXD

LONG BEACH GRAND PRIX

All members by now should have received the special mailing from Steve Shane, WA6NRQ re: the Ham Radio Support of the Long Beach Grand Prix Sports Car Race. Steve is looking for operators to man a two-meter comm net in Long Beach on Sept. 26, 27 and 28. Call Steve at 20-1267 for further info.

TRW/ARC Saturday Morning Nets 10AM LT

Primary	7.280 MHz
Secondary	3.980 MHz
Novice	7.140 MHz
Simplex	147.510 MHz

FIELD DAY '75 REPORT

The TRW/ARC scored a total of 7954 points for QSO's in Field Day this year. Additional points will be added by ARRL Headquarters for other factors. We will know how we scored nationally come the November QST. For further details, see inside this issue.

SCHWEITZQUITS!

Long-time club member Don Schweitzer, WB6TES, is retiring from TRW after 12 years of service. His last day is August 29. Shortly after the first of September, Don and his wife will be settling down in their new QTH in Ojai. Don tells us he'll be putting out big VHF signals, and would like to have all his old friends know that he will be thinking of us.

All you old timers in the TRW/ARC will remember that Don was the key man in the acquisition of the space in Bldg. 65 that is the location of the club station, W6TRW. Don spent many hours working out the details so that our club could have a home for its station.

Thank you Don, for the FB job!

Don's new address will be:

No. 11 Don Antonio Way, Ojai Valley
Mobile Estates, Ojai, Calif. 93023

*** MEETING REMINDER *** R2-1055

Always the last Wednesday at noon

Subject: DX-pedition slide show

Speaker: Ron Stockton, WB6LTJ

FIELD DAY 1975

Jerry Dean, WA6GVO assisted by Frank Halligan, W6RLN did some magic with the big computer and came up with all the vital statistics for our official report to ARRL for Field Day this year.

Here's how we did band-by-band:

Band	CW		Phone	
	QSO's	Points	QSO's	Points
80	93	186	189	189
40	500	1000	410	410
20	465	930	369	369
15	96	192	284	284
10	-	-	5	5
6	-	-	19	19
2	-	-	253	253
10/2	5	10	(OSCAR)	
Novice	65	130	-	-

Total: 1224 2448 1529 1529
(points times 2X pwr mult = 7954)

This year, CW QSO's counted double, so our high score on the brass-pounder's side really helps.

Field Day Chairman Paul Weisz, K6YQ says "well-done" to the hard-working gang who came to the hill and gave their maximum effort to this good cause.

TREASURER'S REPORT

There isn't any, that is, there isn't any report, but it has been reported that there is a treasury, according to a report from the treasurer, who says the treasurer will make a treasurer's report next time, if the report is ready!

TWO-METER AMPLIFIER by Wayne Hale

Here is a schematic and parts list for a two-meter amplifier good for 40 to 50 watts out. The power transistor Q1 is available from WA6AQC or myself. I have a number of the other parts, but others will have to be ordered. If we can combine our orders we may be able to get all needed items and make up a kit.

There is no formal component layout for the amplifier. The only precautions that should be observed are that lead length should be kept short and that the emitter leads of the transistor should be thoroughly soldered to the ground plane of the amp.

The entire unit is constructed on a piece of double-sided PC board. The transistor is mounted on a heat sink with approximately 200 square inches of surface area. This will provide adequate cooling if air flow is not restricted.

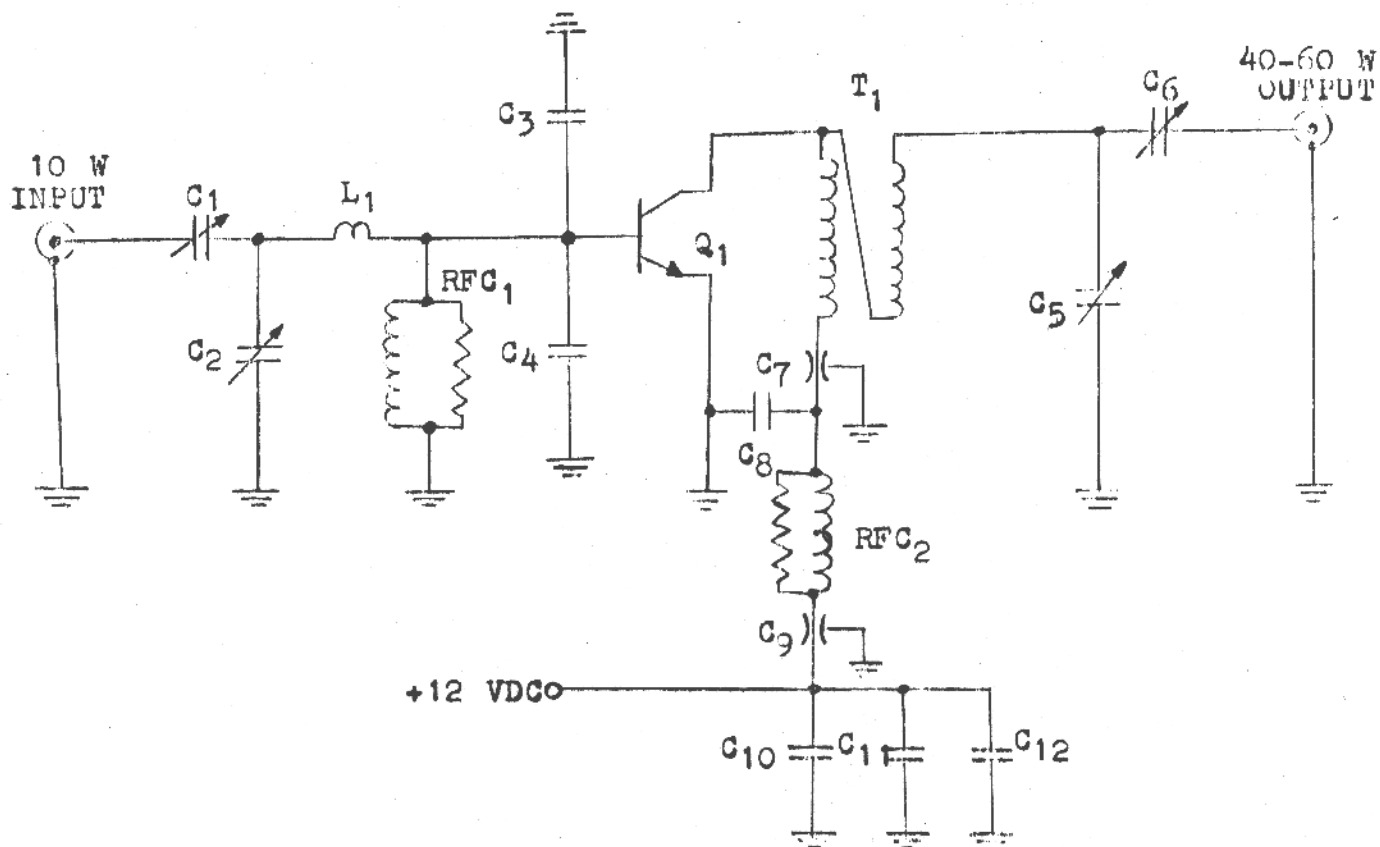
To mount the transistor, a hole is cut in the PC board to just clear the mounting tabs. The leads of the transistor are supported by small pieces of circuit board cut to match the configuration of the leads.

T1: Two pieces of #20 wire are sleeved with teflon and twisted together. With a VOM determine and identify which ends of the wires are which. Connect the ends of opposite wires such that when joined, the transformer forms a circle approximately 1 inch in diameter. This configuration will give the necessary 4:1 balun for the collector circuit.

The input, junction of C1, C2, junction of C5, C6 and the output connections are all made with the use of stand-off insulators.

The leads of RFC1, RFC2 pass through ferrite beads.

(cont. page 4)



C1 ARCO 403 Trimmer (4-40 pf)

C2,C5,C6 ARCO Trimmer (#423)

C3,C4 150 pf chip capacitor at Base-Emitter, 1 each side of Q1

Q1 TRW JO4040

L1 2 Turns #18 on #24 drill (approx. 0.150" diameter)

RFC1,RFC2 #18 close wound on 10 ohm 1 watt carbon comp. resistor.

T1 Two 3" lengths #20 wire, teflon sleeved and twisted. Connections made such that a 4:1 balun is formed.

C7,C9 200pf standoff capacitor

C10 5-10 mfd tantalum

C8,C11 0.1 mfd molded mica or equiv.

C12 0.001 mfd molded mica or equiv.

VHF AMPLIFIER (CONT.)

Coax connections to the amplifier should be made such that a minimum of exposed and unshielded center conductor is used. This practice will help eliminate stray pick-up.

My thanks to WB6FHN for drawing the schematic and typing the parts list.

For further info, call me at 62484 (work) or 370-5335 (home)

Wayne Hale, W6IZK

RFI BILL

Bill Dews, K6AWO has called to our attention an article in the August issue of QST concerning the new RFI (Radio Frequency Interference) bill introduced in Congress in May of this year.

We would like to have reprinted the article here in Crosstalk this time but since most of our members have access to QST, we will only touch on the highlights.

Congressman Charles Vanik of Ohio introduced this bill, HR 7052, which is intended to give the FCC the authority to regulate the manufacture of home-type audio and video electronics so that its susceptibility to RFI is reduced.

As is typical of such legislation, it was immediately referred to a committee for study and a hearing.

As was pointed out by our speaker last month, Marti Volkoff, of the FCC, most cases of RFI reported to his office are blamed on those *5#@* hams, although investigation shows only a small percentage are in fact due to spurious emissions from amateur stations.

It is pretty commonly known by most of us in the electronics field

that the average home-type receiver, be it TV, FM, AM or hi-fi device has very poor front-end selectivity. Any close-by spurious radiation, even in the micro-volt region is a possible cause of disruptive interference to the receiver, thus resulting in a disgruntled citizen who may call the FCC and report his nasty neighbor "ham".

The new bill in Congress would give the FCC authority to require home-type gear to have front-end filter circuitry or whatever to reduce the sensitivity to spurious or adjacent channel type interference.

We can expect that the manufacturers of entertainment type receivers will fight this bill as it will add some cost to provide RFI reduction.

But it would appear that efforts to reduce this type of pollution of the airwaves is for everyones benefit in the long run.

We need action in Congress to get the bill through the committee hearings and on to the floor for a vote.

You can help. Write to the chairman of the committee, expressing your interest in moving this bill, H.R. 7052, through the committee. His name and address is:

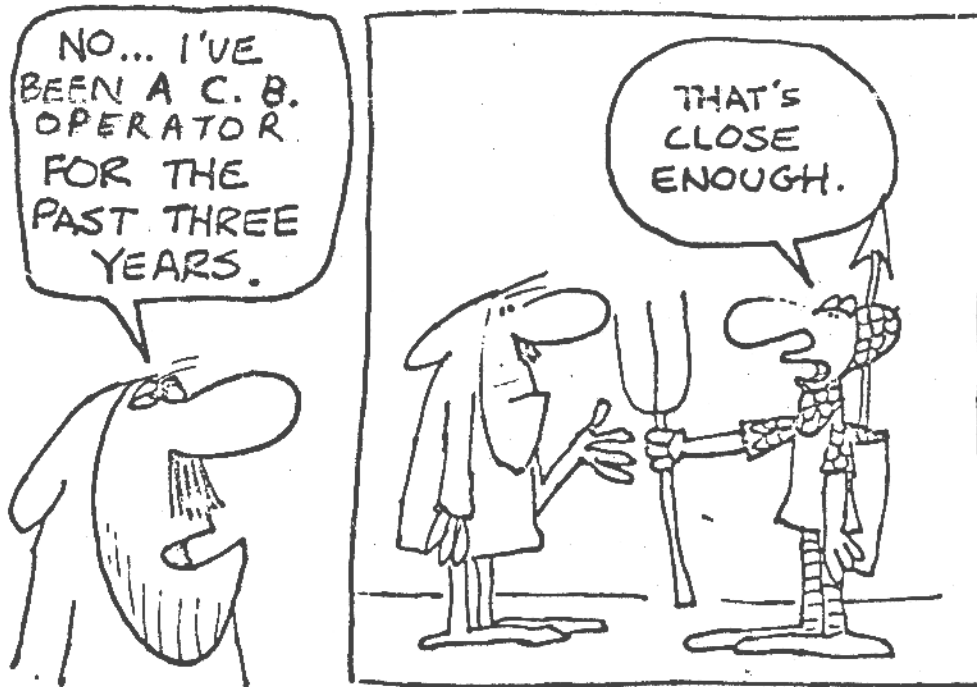
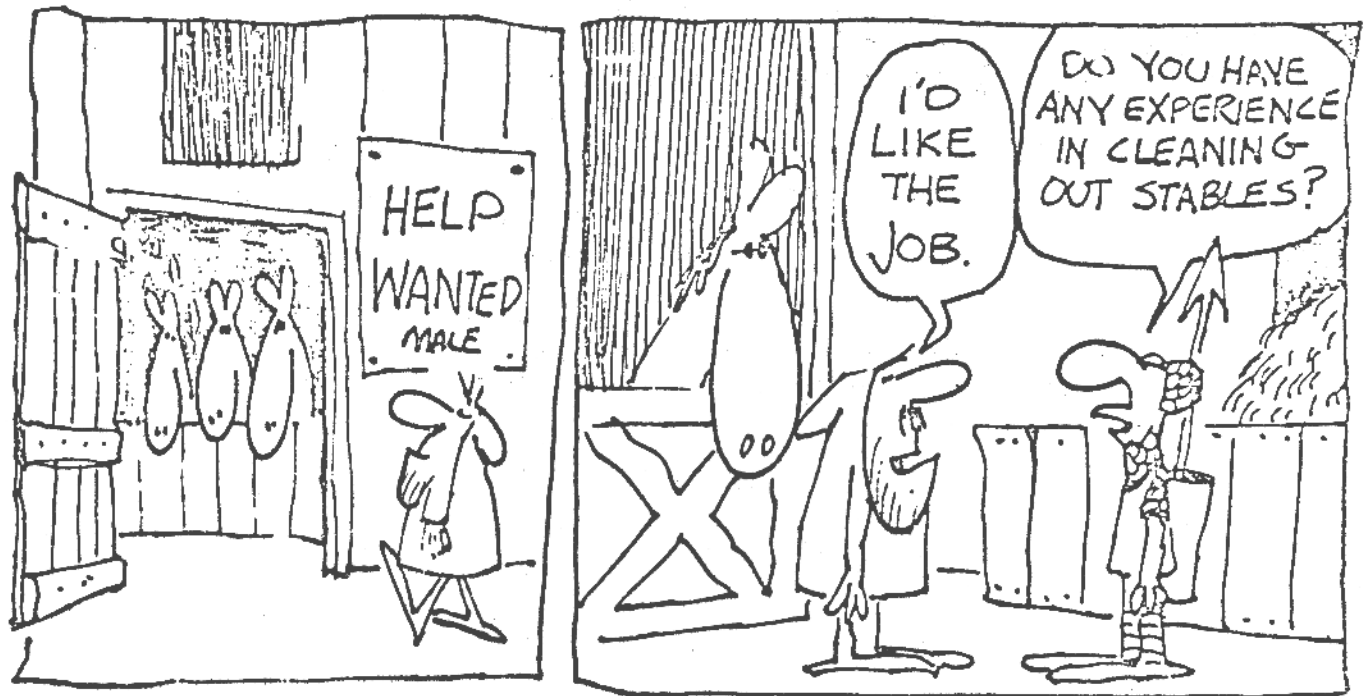
The Honorable Torbert H. Macdonald
Chairman
Subcommittee on Communications
Room B331
Rayburn House Office Building
U.S. House of Representatives
Washington, DC 20515

A letter to your own congressman on this subject wouldn't hurt, either.

MEMBERSHIP SURVEY

Please note the survey form in this issue. The club executive board is anxious to have your opinions known.

COMIC SECTION (just for fun!)



Origin unknown, but with apologies to Parker and Hart

a C.B.