

TELSTAR

MARCH 1987 NO. 29

SOUTH TOWNS AMATEUR RADIO SOCIETY OFFICERS AND BOARD OF DIRECTORS

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PACKET VIA H.T.

Here is an inexpensive way to get on Packet using a H.T. I tried this on an Icom 2AT and believe that it will work with any H.T. It was used with a Tandy 100 lap portable computer and a GLB L2 TNC. The GLB is portable using a 9 volt battery.

Connect the speaker as you would with any rig, the speaker audio of the packet TNC to the center pin on the miniature jack. As you may have noticed, there is no PTT line available on the Icom 2AT. The PTT keying is done through the microphone input. The mike input and the PTT functions can be effectively be separated by using two small resistors (22k ohm and 2.4k ohm). Connect one side of each resistor to the center pin of the subminiature jack that goes to the the mike input on the Icom 2AT. Connect the PTT line from the packet TNC to the 22k ohm resistor. Also connect the mike audio line from the packet TNC to the 2.4k ohm resistor.

GLB PK1 users only, connect the .01 capacitor in series with the 2.4k ohm resistor; all other TNCs do not require this capacitor.

Finally connect the ground to the outer sleeve of the subminiature jack, plug them in and you are on the air.

73 = Dick K2RDD

ARRL NEWS

ARRL 8 = written credit

FCC okayed written exam credit for amateur radio exams (PR docket 86 63) became effective 13 February 1987. Also the Office of Management and Budget (OMB) approved a revised FCC form 610. However, the July 1985 version of the form 610 (expiration date of 3/31/88) will remain in use until revised forms are available.

(ed note = came too late to put in February issue)

ARRL 11 = call signs

FCC has submitted a request for comments on a proposal inquiring if call signs could be issued by a private sector = under this the FCC would issue a 2 X 3 call sign for each licensee from the prefix block NA thru NZ = all other call signs would be available from a special call sign coordinator (SCSC) who could assign one or more supplemental call signs at the licensee's request = in brief there would be only one SCSC so as to avoid confusion = written comments on this proposal (PR 3) is due on or before 23 April with reply comments on or before 22 May.

ARRL 12 = question pools

On 29 January, the FCC, in brief, feels that an agreement amongst the VECS to maintain existing exam question pools until 30 January 1988. Further that VECS will cooperate in maintaining a common question pool - it further expects all VECS to adhere to this plan. While ARRLs petition for reconsideration on this matter remains pending, the status quo will be maintained.

ARRL 13A = novices - technicians

11 February, the FCC released the report and order in PR docket 18 161, novice enhancement. The rules become effective 0001 UTC, 21 March 1987, a Friday night local time. Specific rules changes are = novices and technicians may operate 28.1 through 28.5 mhz, using CW and digital modes on 28.1 to 28.3 and CW and voice modes from 28.3 to 28.5 mhz. = they are limited to 200 watts output on this band, but other licensees are not similarly limited. Also novices may use up to 25 watts in the 222.10 through 223.91 mhz band, with all authorized emissions = novices may use up to 5 watts in the 1270 through 1295 mhz band with all authorized emissions = no amateur station at which the control or station licensee holds a novice class operator license shall be in repeater, auxiliary, or beacon operation = TWO EXAMINERS will be required to administer future novice exams (which shall consist of 30 questions). FCC form 610 will be revised to provide for certification by two VEs = present novice and technician licensees are grandfathered into the new privileges = element 3 is divided into two parts, 3A and 3B, with each examination to consist of 25 questions = present technicians will be given credit for having both elements = in the future upgrades to technician will only have to pass element 3A and future technicians upgrading to general will have to pass both elements 1B, 13 wpm, and element 3B = complete text of the new rules will appear in April QST.

ARRL 14 = 18 mhz

FCC dismissed the petition to release the 17 meter band (18.068 - 18.168 mhz) to US amateurs = it is contingent upon

upon the relocation of the US government fixed operations = those agencies have informed them that the band will be required through 1 July 1989 = however, the FCC will continue to monitor the useage of the band and it may be possible to provide for the amateur sharing of the 17 meter band before that scheduled date.

ARRL 16 = 220-222 mhz

12 February = FCC proposed a notice of rule making (87 14) proposing to allocate 220 to 222 mhz on an exclusive basis to the land mobile service and 222 to 225 mhz exclusively to amateurs = FCC states that the 220 to 225 band is underutilized and the land mobile service has needs that could be met in this region of the spectrum = comments on this proposal may be filed with the FCC on or before 6 April 1987 = reply comments due on or before 21 April 1987.

ARRL 17 = F8E mode

(PR docket 86 207) = FCC has authorized emission mode F8E on all amateurs frequencies 902 mhz and above = effective 6 April 1987 = F8E is a mode in which the carrier is frequency modulated by two or more analog voice channels.

COMING EVENTS 1987

<u>General Meeting</u>	5 March at 7:30 PM Youth Center
<u>Board Meeting</u>	24 March at 7:00 PM Youth Center
<u>75 Meter Net</u>	Each Saturday at 10:00 AM +/- 3925 khz
<u>2 Meter Info Net</u>	Each Wednesday 7:00 PM 147.69/.09
<u>RAVE phone 838 3961</u>	Upgrading information
<u>Telstar deadline</u>	21 March

Local VE testing 29 April Wednesday 7:00 PM = Hamburg Junior High School rooms 102 and 104 = 610 form needed as well as a copy of license and an acceptable form of ID and a check (\$4.35) made out to ARRL/VEC

Town of Hamburg 18 - 19 July 175th anniversary

Erie County Fair 14 - 23 August

Ham-O-Rama 12 September = Falls Convention Center

STARS GOSSIP COLUMN

Boy, the February meeting sure was a good one. Everyone talks about the weather but never can do anything about it. It was nice of the weather bureau to send a speaker with a nice film about weather conditions and also a few members joined the weather watch program to help spot storms in weatern New York.

In addition our president was able to fill quite a few committee chairpersons positions. Remember, these

chairpersons will need help in making our club perform better.

How do you like our refreshment committee? They sure went of their way to get some hot chocolate and hot coffee for our members at the last meeting; understand that donuts will be added to the March's menu. No wonder no one wants to leave early.

Dick, W2UJR, VEC chairman, has all the necessary forms for you plus any info that you may need to upgrade. Remember this test is for all amateurs who wish to upgrade, this applies to non-members as well as members.

Now to the hobby side of the club, at the March meeting we will have some speakers on computers which should be very interesting. Remember these programs are planned well in advance so if something should fail, don't blame the program chairman for any changes that may occur. Thus far they have been able to hold our interest at every meeting lately. Should you have or know anyone who could put on a program for us then contact Matt NS2M (program coordinator). I am sure that he could make arrangements for your people to put on their program at a future meeting.

One position needed badly is a technical writer who can write articles for the club paper so that everyone could enjoy them at their leisure while at home. It is not as difficult that can imagine and should you make an error then bring it to attention at the next meeting. Also, it is a good check to see how many members read the article. It doesn't have to be long or very technical, just interesting.

See you all March 5th = GUZ - WB2EZU

AMATEUR RELATED GEAR

FOR SALE: Heath SB-401 transmitter = Heath SB-301 receiver = speaker = Heath SB-610 console patch = low pass Drake filter = Heath VTOM meter

Contact: Shorty Comstock 649 2685

Kenwood TS-130SE, 8-band hf xcvr, 80 to 10 meters with 500 hz CW filter Turner desk mic \$480 = home brew 15 amp reg pwr sup for TS-130SE \$40 = AT-130 Kenwood antenna tuner \$108 mobile mic Kenwood MC-35S \$23

contact: Paul WA2DII 652 7928 btwn 4 and 9 PM

WANTED: cantenna and swr watt meter = also tubes 6JB6, 6EV7, 6GX6, 6HS6, 13DE7, 12BY7, 12AX7, 6BA6

contact Hank KA2UYY = 835 9708

EDITOR COMMENTS

This month there seemed to be a lot of ARRL bulletins covering FCC happenings = where possible will condense same = have and will enter them to keep you more informed as to

changes as well as proposals. In addition, you may see different styles, formats, etc. in the newsletter as I, too, get bored with the same old thing month in and month out. Next month the membership roster will be in the newsletter. Another fact that the committee list is present in this newsletter is because of the many changes including fulfillment of many vacancies as well as several changes. Will not make any comments on these various positions as that is left up to the various officers = have to keep them on their toes as well.

COMMITTEES

Nike Clubhouse and.....Nick Stanko KA2SEZ
 -- Station Managers.....Guz Guzinski WB2EZU
 Repeater.....Bill Siska N2GAG
 \ " " "Al Petry KA2QJK
 Telstar editor.....Joe Prockton N2BGJ
 Ham O Rama.....
 Ham O Rama.....
 Property Manager.....Chuck Louise KC2SG
 Program Coordinator.....Matt Gorski NS2M
 Fair Station.....Matt Gorski NS2M
 Asst " " "Nick Stanko KA2SEZ
 " " " "Lawrence Locker KA2TTT
 " " " "Hal Creighton WA2UJS
 Insurance.....John Waterhouse KA2GXS
 2 meter Net.....Norm Jones KD2KK
 Sunshine.....Malcolm Vallone WA2VER
 Const. Trustee.....Dave Bouman KD2EY
 75 meter Net.....Guz Guzinski WB2EZU
 Publicity.....Randy Schueler KA2RFW
 Jamboree On The Air.....Joe Faraguna K2QNO
 Technical Ass't.....Hank Jarmuz K2EUS
 VE Liaison.....Dick Haungs W2UJR
 Station Trustee.....Guz Guzinski WB2EZU
 Membership.....Joe Faraguna K2QNO
 Coffee Pre-Meet.....Louis Esposito KB2AMD
 Youth Center Sta Mgr....Ralph Miller KA2WCU
 ARRL New/Renewal.....Joe Faraguna K2QNO
 Family Social.....Luke Caliano Jr N2GDU
 Asst " " "Bill Wach KA2JEX
 Asst " " "Louis Esposito KB2AMD
 Field Days.....

THE PREZ SEZ

I am very happy to see the novice enhancement is going to become effective very soon. Rumor has it that it will happen March 21st. Surprised to see the testing for the Tech and General class???

If you plan to upgrade, do it now!

The chairmanship for field day and two Ham O Rama reps are still open. Let's pick up where we left off last meeting

with everyone in a volunteering frenzy and get those posts filled pronto.

This month I have also included plans for a code oscillator. It uses resistors, capacitors, IC's and a printed circuit board. Everything can be bought at Radio Shack. Unfortunately, when you buy at Radio Shack, almost everything is sold in pairs, so to really save maney, two of you go in together and cut the cost almost in half. On your own, it will cost \$7.91 including tax. I feel that this is a good project for someone has never built anything.

The next meeting, March 5th, we will have a speaker giving a demonstration about computers for the very beginner.

Stay involved = John KA2RFT

TU WINTERIZING

Have your television winterized now by our expert technicians... only \$19.95 plus tax...

Complete service includes:

- change transformer oil.
- grease flybacks.
- add anti-freeze to tuner.
- rotate tubes.
- check oil lever in capacitors.
- tune and regap ion trap.
- adjust timing of linearity coil.
- remove stray ions from the ion trap.
- tranquilize self-excited oscillators.
- set tube anodes to 212 degrees (f).
- advance spark at second anode.
- check trigger for electron gun.
- repeak all IF's to prevent snow accumulation on flat-topped responses.
- make sure that the cathode follower is inverse.
- clean drain on vertical sync.
- integrate the discriminator.
- reseal all traveling waves.
- boresight electron gun. (Special for color sets: re-blue the blue gun = regreen the green gun = re-red the red gun).
- empty grid leaks pan.
- plug all grid leaks.
- remove and clean all if cans.
- blow out all fuses.
- remove bias from discriminator.
- dredge all channels.
- clean all filters.
- renew holster for electron gun.
- sweep all frequencies.
- install new beaters in the mixer.
- apply tourniquet to all bleeder resistors.

(copied via RTTY mailbox = Joe)

DX BULLETIN #7 = 20 February 1987

Thanks to WA2JBV and the Western New York Association for the following DX info = PETER I the 3Y1EE/3Y26V operation does not yet count as a country for DXCC or the Golden Jubilee Award. Do not submit cards for Peter I until a date is published. REPUBLIC OF BELAU JE1JKL will operate KC6CS from 27 February through March 3 = xmit freqs 1826, 3506, 7006, 14006, 21006, 28006 khz + 14090 khz RTTY at 0700 and 2300Z. QSL via JARL bureau or direct = ANDAMAN AND NICOBAR ISLANDS operation due to begin 21 February to the end of March has been delayed 24 hours = MARION ISLANDS VE3FXT is awaiting his license to operate from here beginning in early April = SAN ANDRES KOHEU has received teletype equipment and will be active in RTTY soon = ST. VINCENT J8BBN and J8BAR are active and J8BBH is awaiting his monitor and will be back on RTTY soon = ST. LUCIA J6LGH will be active on teletype very soon, his XYL, J6LQW, also may do some operating = ANGUILLA VP2EZ also plans to be on RTTY = CARIBBEAN EXPEDITION WA4WIP and KP2N are planning a mini d Expedition to V2, V4, J7 and possibly J6, J8 and VP2E for a week or two in June = COCOS ISLANDS VK9YS has just put up a new yagi at 65 ft and will be active on 14195 khz.

Stations recently worked from Western New York include;

40 METERS

South Shetlands	LUGUO/ZHL	7011 khz at 0330Z
Malawi	7Q7LW	7004 khz at 0431Z
Papua New Guinea	P29PL	7005 khz at 1306Z
Eri Lanka	4S7RD	7005 khz at 1300Z
India	VU2TEC	7005 khz at 1310Z
Lord Howe Island	VK9LM	7007 khz at 1115Z
Philippines	KK7K/DU2	7005 khz at 1130Z
Macquarie Island	VK0GC	7249 khz at 0900Z
Saudi Arabia	HZ1HZ	7184 khz at 0420Z

20 METERS

Egypt	SU1ER	14226 khz at 1800Z
St. Helena	ZD7BJ	14182 khz at 2000Z
Senegal	6W1CK	14182 khz at 2015Z
New Caledonia	FK8FI	14182 khz at 2000Z
Nigeria	5N9GM	14182 khz at 2000Z
Clorioso	FR6/FR4EC	14236 khz at 2000Z
Libya	5A0A	14005 khz at 1444Z
Iraq	YI1BCD	14185 khz at 1415Z
Faroos	OY/DK9FE	14015 khz at 1440Z
Reunion	FR4DE	14015 khz at 1913Z
Hinami Toroshima	KA2CC	14193 khz at 0021Z
Algeria	7X2LS	14187 khz at 2044Z
South Shetlands	LU6UO/Z	14026 khz at 2215Z
Burkina Faso	XT2BU	14215 khz at 2145Z

15 METERS

Swaziland	3D6BW	21272 khz at 1655Z
Zambia	9J2EZ	21297 khz at 1810Z
South Shetlands	LU6UO/Z	21020 khz at 1750Z
Gabon	TR8JLD	21095 khz at 1538Z

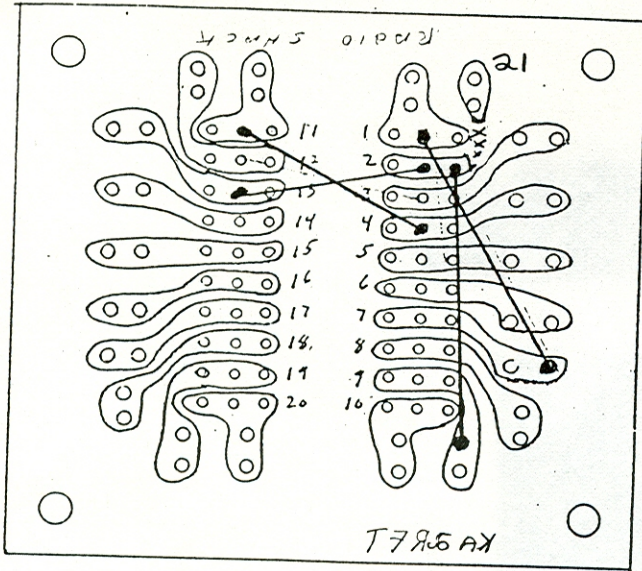
RTTY

Madeira	CT3BX	14085 khz at 1542Z
Vatican	HV2VO	14092 khz at 1600Z
Hungary	HA6VV	14097 khz at 1618Z
Greenland	DX3HX	14089 khz at 1840Z
Faroos	OY4HQ	14085 khz at 1800Z
Un. Arab Emirates	A61XL	14090 khz at 1530Z
Puerto Rico	WP4C	21090 khz at 1700Z
St. Vincents	J8BAR	14086 khz at 2040Z
Morocco	CN8CC	14093 khz at 1945Z
Dodecanese	SV5TS	14085 khz at 1930Z
Neth. Antilles	P43SF	14087 khz at 2025Z
The Azores	CU3AG	14097 khz at 2120Z
St. Marteen	PJ2MR	14080 khz at 2200Z

FURTHER COMMENTS

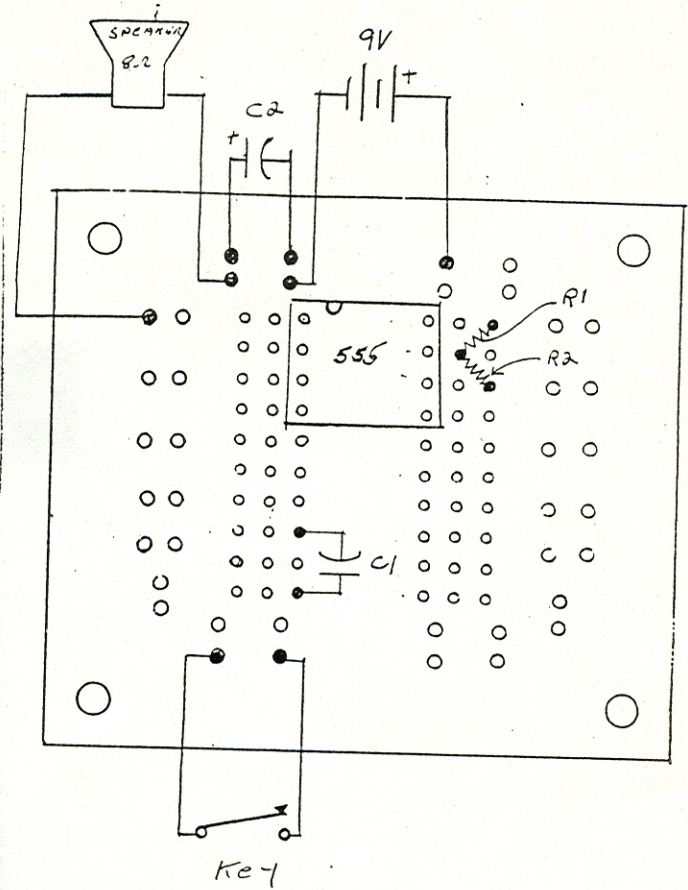
Regarding the above (dx bulletin), I will not make it a regular practice to get it off the air but anyone would like to get it to me then he or she can get it to me. One final note, am not a dx chaser.

After listening to various people over the air I would like to clear the air regarding the last letter of the alphabet being used as the time. The last letter being Z = Zed = Zulu = Zebra = or whatever crazy phonetic applied to it. This may hold true to this date but I know that when I was a radio operator in the navy the world being divided into 24 time zones, a letter of the alphabet was assigned to each time zone (don't know what letters were not used but they could have been I and O to avoid confusion) = at any rate Z was the designated area for what was GMT or is now UTC = hopefully you understand = Joe N2BGJ.



Jumper 1 To 7
 2 To 9
 2 To 13
 4 To 11

REMOVE FOIL FROM BOARD AT 2 TO MAKE NEW POINT CALL IT 21, USE SHARP KNIFE



- Note 1. Insert 1k Potentiometer BETWEEN C1 AND SPEAKER - control VOLUME
 2. CHANGE R1 OR C1 WILL CHANGE FREQUENCY
 3. FREQUENCY NOW AT 1173 HZ

555 IC	276 - 1723	1.19
4.7 4F Radial	272 - 1024	.49
.01 u DISC	272 - 131	.49
100K 1/4 WATT 5% 10K 1/4 WATT 5%	271 - 1347 271 - 1335	.39 .39
IC BOARD	276 - 159	1.49
SPEAKER	40 - 246	1.89
9 VOLT BATTERY SNAPS	270 - 325	.99
		<hr/> 7.32
		.59 TAX
		<hr/> 7.91 TOTAL

