



founded 1970

# THE BULLSHEET

Official News Bulletin of the

Texas DX Society

An ARRL Affiliated Club



July, 1987  
Volume XI  
Number 7

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### TDXS Officers

President:	K5TU Kim Carr	Repeater Chairman:	NM5M Eric Silverthorn
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Treasurer:	KG5U Dale Martin	Field Day Chairman:	K2TNO Bill Schrader
Contest Chairman:	NT5D Brent Levit	DX Chairman:	W15P Bill Wibker

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### TDXS FIELD DAY A SMASHING SUCCESS (de Bill, K2TNO)

It looks like we kept up the odd-year-to-win tradition and won class 4A this year, setting a new scoring record in the process. After duping, we have 2,129 CW + 3,262 SSB for 5,391 total QSOs. That works out to 16,240 points, eclipsing the old record of 16,122 set in 1983. Way to go, gang!

We had about 300 dupes which were subtracted for the final score. These were in addition to the tons of dupes which were removed during the "operating event."

I was very pleased with the club's effort this year. The teams pulled together well, despite the usual confusion, heat and grandiose schemes. Special thanks go to the station captains and other experts who got up an impressive set of educated aluminum. Moreover, the club owes a real vote of thanks to George, NR5M, for coughing up three motor homes off his sales lot, and to Bob, W5SJS, for providing such an excellent site.

The band-by-band breakdown of the score appears on page 5 of this issue.

### Field Day Awards:

Most Creative Use of Gas (Tie)- To NR5M for his helium filled "blimp" which held up a full size 75 meter loop that really kicked butt on that band,

(Continued on page 4)

IT SEEMS TO ME  
(de Kim, K5TU)

...that a few kudos are due for jobs well done on Field Day. First in line is K2TNO for a super job of organization. The results are the proof, and may be a 4A record.

NR5M's contribution of the RV/motorhomes made it a lot easier for us to operate. George's mini-blimp that supported the 75 meter delta loop gave us more than twice as many QSOs as ever before on 75 SSB. One "AttaBoy" for George.

W5ASP and W5SJS get the "Yeoman's Service Award" for lots of back-breaking grunt work and sweat related to hauling antennas, towers, rope and coax to the various stations and stowing them back in the barn. A cold 807 for Joe and Bob.

KE5IV gets the "Quality" award for assembling the beams right the first time (save one 15M beam that was actually on 10M). Ken managed to change several beams from phone to cw and vice-versa without a kink in his tape measure. Well done, Ken.

The commendation for "Most Ingenious Invention in the Face of Work" goes to K2TNO for his electric fuel pump lash-up. For anybody that's ever cranked that manual fuel pump, you can appreciate this one. You know, that pump looked a lot like a Volvo fuel pump...bet there's a dead Volvo in front of Bill's house!

Little known other events in the "You Hadda Be There" category... K5RVK was cited by the Texas Air Quality Control Board for air and noise pollution...K5GN received honorable mention for "Most Vocal OP In a CW Pile-Up"...K5MA receives the free, one week course in "Cultivating Relationships with the 'Bumblebee"...KE5FI was awarded the "Most Reliable Packet Radio Station" medal...and last but not least... K5GB earned the TDXS Medal of Valour for the best operating slot on Saturday nite.

DX Report (de WI5P)

KAMPUCHEA --- XU1SS - 12:00 - Freq: 14,165

KERMADEC ISLAND --- ZL8HV - 04:00 - Freq: 14,195

LIECHTENSTEIN --- HB0/on OSCAR --- July 4-15 By HB9PAS, HB9RHV, & HB9SDY

MALAGASY REP. --- 5R8JD -- July 1 - September 1 - By TU2NP

MARKET REEF --- OHOMA - 7/25-8/2 - By OHONA, GM3YOR, G4EDG, G4JVG, & SM5AQD

NORTH COOK --- ZK1XV - NOW-July 30 - By Bing - QSL Via VK2BCH - 86/87 CBA

ST. PAUL ISLAND --- CYOSPI - July 1-31 - By VE3FXT - No reports to date.

SYRIA --- OE8HFL/YK - 14,215 - 0400Z.

THAILAND --- HSOC - July 23-26 - JA8ATG/JH3GAH/JH1DLJ -160-6- QSL JA8ATG

TUNISA --- 3V8RFA - October 19-27 - By Craig, WB7RFA - (CQWW SSB)

# MADISON SUMMER SHOPPER

New rigs and old favorites, plus the best essential accessories for the amateur.

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**TEXAS ORDERS CALL COLLECT**  
**ALL ITEMS ARE GUARANTEED OR SALES PRICE REFUNDED**  
 1 (800) 231-3057

## EQUIPMENT

New Icom IC 781	Trades wanted
Kenwood TH205AT	Trade in your old HT
Konwood TS 440S/AT	Call for trade
Icom R7000 25-2000 MHz	949 00
Icom IC735	849 00
Ten-Tec 2510 (Easy OSCAR)	439 00
KDK FM 240 NT	279 00
Mirage Amps	15% OFF
Tokyo Hy-Power HL 1K AMP, no 4CX250B	899 00
New Kenwood TM-221A, 45W, mobile	Call
VJ Amplifier, VHF, built in England, 1 in-100 out, 3-100, 5-100	(oa) 269 00
10 in-100 out	229 00
25 in-160 out	319 00
All models include preamp	
Lunar 2M4-40P	109 00

## ACCESSORIES

88W VIEWSTAR ANTENNA TUNER	89 95
Heil HC4/HC5	Stock
Heil BM10 Boom Mike headset	CALL
Tri-H 5000A Remote Phone	\$189 00
Daiwa NS660A 30/300/3000 watts	135 00
Alinco ELH 230D- Excellent buy	88 00
Nye MB5-A (for the big boys!)	529 00
Shuro 444D	54 95
Ameco PT-3	Soon
New Tokyo HC 200A	115 00
Astatic SilverEagle & Base	66 00
Ten-Tec Mobile Switch 3001	17 00

## ANTENNAS

Isopole 144 MHz	44 95
AOP-1, Complete Oscar Antenna	149 95
Butternut HFGV, 80-10 vertical	125 00
HF2V, 80 & 40 vertical	119 00
HF4B	189 00
Hustler G7-144	119 95
Hustler 6BTV	139 00
KLM HF World Class Series Antennas	Call Don
ALPHA Delta DX-DD	63 00
Coax Seal	2.00/roll
88W Dipoles	Less 10%
KLM KT-34A	399 00
W2AU, W2DU	Now Available
NEW KLM 1, 2-441, DX	129 00
1296 Power Divider	Soon
Create CD-78 + BS 80 75/80 rotatable dipole	349 00
GS-RV	44 00

## OTHER ANTENNAS

Diamond D-130 Discone 25-1300 MHz	79 00
Larsen Kuldock	17 00
Larsen 2M 1/2 wave telescope ant.	25 00
Avanti AP151 3G on Glass Antenna	36 00
Anteco 2M, 5/8, Mag. Mount, Comp	25 00
Orion 2M 1/2 wave Handy Antenna	19 00
Van Gordon SLA-1 160-80-40 Sloper	44 00
Valor AB-5 Mobile	79 95
Stoner DA100 D Active Rx Antenna	190 00
DC Tenna Hitch 3/8-24 Thread	
Fits 3/4" trailer hitches	29 95

## PARTS

1.5 Amp/400V full wave bridge rectifier	1.95
2.5A/1000PIV Epoxy diode	29 each or 19 00/100
.0015/10KV or .001/20KV	1.95 each
3N201	.96
4 inch ferrite rod	1.95
36SpF cap	1.95
Sanyo AAA AA Nicads w/tabs	2.00
2, 4, 5, 6, 8 pin mic plugs	3.00
1/8, 1/4, watt carbon resistors	.05 each
Meter 0-3000 VDC 0-1 Amp DC 2 1/2" Square with shunt	19 95
Drake-Collins mike plug	2.00
Thousands of panel meters	3.95 up CALL
MICA Cap .0004/3KV	5.00 others CALL
Diodes 3A/1000 PIV	.29
Duracell 9 Volt Battery - 2 Pak MN1804	3.49
OC Fan 3 1/2" Sq. x 1"	9.95
CINCH 12 pin conn Itz (Drake etc.) female	3.00

## AMPHENOL

831SP-PL259 Silverplate	1.25
UG176 reducer RG8X	.30
831J Double Female UHF	2.00
82-61 N Male	3.00

82-97 N Female Bulkhead	3.00
82-63 Inline Female N	4.00
82-98 N elbow	9.00
31-212 BNC-RG59	1.50
31-216 UG201 A/U N Male-BNC Female	2.00
31-2 BNC RG58	1.50
34025 N Male, RG58	3.00
34125 N Female UHF male	9.00
3128 BNC Female-PL259	3.00
4400 N Male-S0 239	7.00



ICOM 28H/TTM .....399.00

## TUBES

Collins & Drake Replacement tubes	Stock
GE 6146B	12 95
3-6002	109 95
GE Industrial Tubes	Call
GE 12BY7A	7.00
GE 6JS8C	12 95
GE 8950	16.00
12JB6 Sylvania	6.00
Hard to find Tubes 50-90% off list	
6JB6A	9.95
6JE6C/6LO6	9.95
572B	69 00
6KD6	10 95

## PACKET POWER

AEA PK-232 with new WX FAX	299.00
Kantronics Packet II	149.00
MFJ 1270	119.00
MFJ 1274	149.00
AEA PM-1	149.00
New AEA UDC-232 Firmware, No modem, List 279 00	249 00
New Kantronics KAM	299 00

## SERVICES

Complete KWM 2 Retube	179.00
Flat fee Collins rebuild	Call

## USED EQUIPMENT

All equipment, used, clean, with 90 day warranty and 30 day trial. Six months full trade against new equipment. Sale price refunded if not satisfied.

Call for latest used gear list

## TOWER ACCESSORIES

1/4" E H S Guy cable, Rohn US, 1000 ft.	250 00
3/16" E H S cable, Rohn US, 1000 ft.	210 00
1/4" Guy Cable, 6100 #7 x 7 strand, import	18c/ft
3/16" Guy Cable, 3700 #7 x 7 strand, import	15c/ft
3/8" x 6 E&J Turnbuckle	7.95
3/16" Wire Rope Clips	40
1/4" wire clips	50
1/4 Thimbles	45
Porcelain 500D Guy Insulator (3/16)	1.99
Porcelain 502 Guy insulators (1/4)	3.39

## POLICIES

Minimum order \$10.00. Mastercard, VISA, or C.O.D. All prices FOB Houston, except as noted. Prices subject to change without notice. Items subject to prior sale. Call anytime to check the status of your order. Texas residents add sales tax. All items full factory warranty plus Madison warranty.

## DON'S CORNER

New Nye 160-10m Tuner, 3KW, deluxe, big box — coming soon.

# MADISON

## Electronics Supply

3621 FANNIN  
HOUSTON, TEXAS 77004



## FIELD DAY (Continued from page 1)

and to K5RVK, for his use of gas to keep his area free of people.

Most Instructive Application of Trigonometry- To K5TU and K5MA, engineers extraordinaire, for their ability to mis-locate guy points with precision.

Most Talented Application of Newton's Law (Kamikazi Division)- To N5RP, who hoisted the 25G top section up the 40 CW tower by attaching himself to the gin pole rope and jumping off the tower.

Most Unlikely to Succeed as an Engineer for Hy-Gain- To KE5IV, for assembling a 10 Meter beam while believing it was a 15.

Least Likely to be Invited to Run a Hydraulic Lift- To K5LZO, for meritorious service in using ropes to realign the dead bucket truck arm.

Intruder Watch, Special Award- To W5ASP, for pulling the AC plug on the 40 SSB station in the middle of a QSO by K5LZO.

You're not Getting Older, You're Getting Sober- To KZ5M, who failed to achieve his usual FD state of intoxication on Friday night by not showing up until Saturday.

Instructor of the Year, Dupesheet Category- To K5GA, for his kind words of praise to every station who duped him on 40 SSB.

## SQUELCH TALES

VHF packet was slow because all the digipeaters were in terminal gridlock- The 40 CW tower was raised and lowered using a huge tree as the gin pole - The 75 meter balloon flew with "K5DX" printed in duct tape on its side and was visible from the highway 5 miles away - The only antenna malfunction was a 15 meter dipole for the solar power station - K5GA found his dream band on six meters Sunday morning - Think 15 CW was hot? K5LZO went to 40 CW from 15 only twenty minutes into the contest - Interstation QRM was way down this year, due to keeping the ALC meters on zero and the novices using a vertical - The weather was a break, fairly low humidity and temps in the high 80's - Sunday arrivals got to operate before they were encouraged to climb - Several TDXS QSO rate records fell, such as K5GN's opening 92 hour on 20 CW - Speaking of 20 CW, every time the air conditioning compressor kicked in, the whole RV rocked on its springs - To turn the 40 CW beam they had to kill the AC and lights to goose up the line voltage - Generator line hash spikes dumped the packet program regularly - No soap in the water trough this year, so a dip in the "pool" was refreshing (Special thanks to TNO's cute harmonic, Meg who stood guard telling all bathers "My daddy says no soap in the pool!" ed) - Fire ant mounds had been drowned out by a 12 inch rainfall a week earlier - Copying the FD message from ARRL was easy after an hour trying to find the sked time and QRG - No rig or generator catastrophes this year - Murphy must have had the weekend off after working overtime in Washington...

See you all next year for FD '88 - Thanks again for the help of all for a job well done.

73, Tuna

(Tuna did a magnificent job as FD chairman this year. Thanks to you from all TDXS for the great fun outing we had. ed)

FIELD DAY FINAL SCORING BREAKDOWN  
(After dupes removed)

<u>BAND</u>	<u>CW</u>	<u>PHONE</u>
80 .....	167 .....	240
40 .....	688 .....	781
20 .....	783 .....	1287
15 .....	257 .....	484
10 .....	39 .....	320
6 .....	0 .....	43
2 .....	0 .....	34
Packet .....	60 .....	0
Oscar .....	25 .....	4
Novice 80 .....	0 .....	0
40 .....	95 .....	0
15 .....	15 .....	0
10 .....	0 .....	73
Sub Total .....	2,129 .....	3,262

Grand Total ..... 5,391 QSOs

PROPAGATION  
(de Chuck, KE5FI)

The flux levels continue to average much higher than my predictions in the chart in the February issue of this rag. The flux was behaving pretty much as predicted through March. I said 75 for April and it was 85. May was 88, 13 units higher than predicted. Now June, which was predicted to be 76, gave us a 78 reading. As you can see from the pattern, the higher than predicted levels were probably a short lived phenomena. When a couple of unusually high energy regions appear on the Sun, they may stay for several months, boosting the flux levels every rotation of the Sun during their lives. This can lead to speculation that the solar cycle is recovering faster than predicted. Its easy to engage in wishful thinking of that sort, but the awful truth is that this new solar cycle will be well below average. It will probably peak with a "smoothed" sunspot number in the 90s as compared to the last cycle's peak of 164.5 in December, 1979. This probably means that the multi stations and the guys who put up lots of aluminum for the bottom of the cycle will be king of the mountain for a long time to come. I think NR5M would be safe getting the high quality blimps for the 160/80 meter arrays.

Field Day gave us low flux levels, 76 on Saturday and 77 on Sunday, but it rewarded us with low magnetic levels too, A indexes of 6 and 4 respectively. This probably explains the lackluster 15 and the excellent 75 meter scores. The cause of the sporadic-E skip on 10 is anybody's guess although there were several solar flares on both days that didn't affect the magnetic indices, but may have helped short skip on 10 and 6. (VE was worked on 6!)

Look for super conditions on 40 and 20 during 19 to 26 July and during Radiosport. I would expect long path opening possibilities on both these bands during this contest, as well as a few good openings on 15. 10 will be primarily north-south, but there will probably be reasonable VK-ZL and Pacific openings in the evenings.

SOME TIPS FROM THE POSTAL SERVICE  
(de Kim, K5TU)

One of the more worthwhile things the USPS does is to publish some helpful information that can speed your QSLs to their destination. This month's article deals with a few basic rules for mail, and next month's covers postage rates and special services.

Following a few guidelines may help keep you mail from the shreader downtown.

The destination address should be formatted:

1. Capitalize everything in the address.
2. Use common abbreviations found in the National Five-Digit ZIP Code and Post Office Directory.
3. Do not use punctuation.
4. Use only the two letter state abbreviations in the National Five-Digit Zip Code and Post Office Directory.
5. Use ZIP Codes.

FIRST CLASS MAIL

First-Class Mail should be used for letters, post cards, postal cards, greeting cards, personal notes and for sending checks and money orders. First-Class mail mailed within the customs territory of the United States may not be opened without a Federal search warrant. If your first class mail is not letter size, make sure it is marked "First Class" or use a green boardered large envelope. First-Class Mail over 12 ounces is called "Priority Mail" Free stickers are available from the post office.

First-Class mail will generally be delivered overnight locally and to certain designated areas if properly addressed (including 5 digit ZIP code) and deposited in time for the 5 p.m. collection. Second day delivery is scheduled for locally designated states nationwide to which transportation is available for consistent 2 day delivery. All remaining areas receive third day delivery.

THIRD CLASS MAIL

Third Class mail, (sometimes called advertising mail), may be used by anyone, but is used most often by large mailers. This class includes printed material and merchandies parcels which weigh less than 16 ounces. Third class mail has a dual rate structure: single piece and bulk rate. Individuals may use third-class for mailing lightweight parcels. Consult the post office for further details.

International mail consists of air mail service and surface mail service. There are four types of international mail:

- Letters and cards - includes letters, letter packages, aerogrammes and post cards
- Other Articles - includes printed matter for the blind and other packages.
- Parcel Post
- Express Mail Service

(Continued on the next page)

## MINIMUM SIZE STANDARDS

There are minimum size standards for mail. Pieces which are 1/4 of an inch or less in thickness will be delivered only if they are rectangular in shape, at least 3 1/2 inches high, at least 5 inches long, and at least .007 of an inch thick (about the thickness of a postcard). Mail not meeting these standards will be returned to the sender. Items such as keys and identification devices are only subject to the .007 thickness standard.

The following material is considered nonstandard mail: domestic first class mail weighing one ounce or less and single piece third class mail weighing one ounce or less which:

1. Exceeds any of the following dimensions:  
Height - 6 1/8 inches  
Length - 11 1/2 inches  
Thickness - 1/4 inch
2. Has a length which is less than 1.3 times the height or more than 2.5 times the height.

A surcharge is added to the applicable postage and fees on each piece of nonstandard mail.

## TDXS ANNOUNCEMENTS

BULLSHEET MAILING LIST- The Club provides the Bullsheet free of charge (however, donations to compensate for the mailing and printing expenses are greatly appreciated) to all amateurs with an interest in DX and/or Contests. To subscribe, send your name and address to TDXS, P.O. Box 540291, Houston, Texas 77254-0291.

BULLSHEET ARTICLES- Articles and other newsworthy items are hereby solicited by the editor. Please send them to Chuck Dietz, KE5FI, P.O. Box 460572, Houston, Texas 77056. The Bullsheet is assembled on an IBM computer using the "Wordstar" word processing program. If articles can be submitted on a disk it would be greatly appreciated: 79 columns wide, "returns" at the end of paragraphs only.

WEEKLY DX AND CONTEST NET- TDXS sponsors a weekly DX and Contest net on our 147.36/147.96 repeater each Thursday night at 9:00 P.M. The purpose of the net is to exchange DX, contest and club information. Participation is solicited from non-members as well as members. Your active support is welcomed.

CLUB MEETING- The Texas DX Society meets at 7:30 P.M. on the second Friday of each month except when changed by the board. The current meeting site is upstairs at DeMontmond Motorhomes at 6615 Hillcroft, just south of the Southwest freeway. "Talk in" directions to the meeting site (and to the before meeting hangout) on 147.36.

## CONTESTS

### OFFICIAL RESULTS

#### 1986 ARRL 10 Meter Contest

NR5M	1st in US multi	(973 Qs X 75)
K5LZO	3rd in US multi	(780 Qs X 77)
KG5U	4th in US multi	(721 Qs X 71)
KE5FI	2nd in US sing op Phone	(813 Qs X 76)
KC5CP	2nd in STX sing op Mixed	(280 Qs X 56) (4th in 5th Dist.)
K5NA/M	6th in TNY sing op Mixed	( 5 Qs X ?)



1987 Field Day

K5DX/TDXS is king of 4A with a new record!

1987 All Asia Phone

NR5H multi-multi (1050 Qs X 350)  
 KE5FT single op (350 Qs X 110)

CONTEST CALENDAR

- July 11-12 IARU World Champ (Radiosport) Rules in April QST p 88 1200Z Sat-1200Z Sun No single band. CW, phone or mixed mode. Send report + ITU zone. Work everybody.
- July 18-19 SEANET CW Another work Asia contest sponsored by DUs. Rules in July QST, p 80. Might be as good as AA if there is participation. 4X4 not Asia for this one. Send RST + Nr beginning w/ 001 on each band. 48 hour contest.
- Aug. 08-09 European Dx CW Work Eu only. Very complicated. See July QST
- Aug. 15-16 SEANET Phone
- Aug. 22-23 All Asia CW

DEADLINES

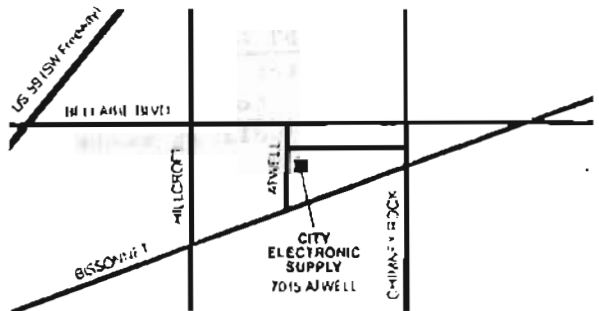
All Asia Phone logs due Sep.30 at JARI, Pox 377, Tokyo Central, Japan.

Adolph

Alex-WASUHT

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# ANTENNAS



<b>2 meter mobile</b> .....	2 M squared for SSB	45.00
...	MM-1041 Mag Mount 5/8	25.00
...	AP151.3G on glass mount	36.00
...	Larson.....	Call
...	Antenna CR2A 2m Magmount.....	40.00
<b>220 mobile</b> .....	Larson antennas.....	Call
...	Antenna CR3A 220MHz Magmount...	39.00
<b>70 CM</b> .....	Larson.....	Call
...	Antenna CR4A 440MHz Magmount...	36.00
<b>Dual-band 144/70cm</b> ...	Diamond 5/8both.....	39.95
<b>Base</b> .....	AEA Isopole 144 .....	49.95
...	Ringo Ranger II 2M.....	39.95
...	AEA Isopole 440.....	48.30
...	Diamond Dual 6DB 144/8DB 440..	104.95
...	Diamond Dual 4.5db 144/ 7.2db 440.....	79.95
<b>HF mobile</b> .....	Bugcatcher 80m 250w.....	34.00
...	80m 1kw.....	48.50
...	40m 250w.....	28.50
...	40m 1kw.....	34.00
...	Valor AB5.....	85.00
...	AB3.....	43.00
...	Stainless steel mast 3/8 2'.....	9.95
...	3/8 3'.....	10.95
...	3/8 4'.....	11.95
<b>HF</b> .....	TET Beams ( <u>CLOSE OUT</u> ) 3F 350H.	175.00
...	3F 370H.	295.00
...	Butternut HF4V (prepaid).....	222.00
...	Butternut HF6V (prepaid).....	128.00
...	Butternut HF2V (prepaid).....	128.00
...	Other Butternut,VHF,scanner.....	Call
...	Cushcraft A4.....	310.00
...	Cushcraft A3.....	230.00
...	Cushcraft A743/A744 30/40m kit.	79.00
...	Spi-Ro Dipoles	
...	D32-20,15,10m.....	54.95 PPD
...	D42-40,20,15,10m...	59.95 PPD
...	D52-80,40,20,15,10.	64.95 PPD
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...	VS-53 80,40,20, 15,10m.	69.96 PPD
...	VS-64 160,80,40, 20,15,10,..	89.95 PPD
...	Antenna HI-Rizer Low Profile CR4010A 40-10m...	117.00

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# TEXAS COMM-CENTER

## ICOM



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## ICOM



**IC-μ2AT**

- 140-163 MHz
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- 1W, 1.5W optional
- 32 tones built-in

**IC-03AT**

- 220 to 224.995 MHz
- 2.5W, 5W Optional
- Built in subtone
- 10 Memories

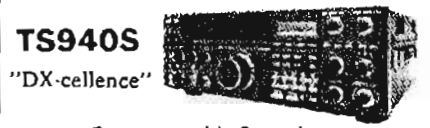
## YAESU



**FT-767GX** HF/VHF/UHF  
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## KENWOOD

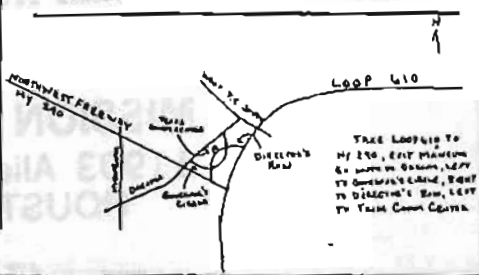


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- 10 Memories
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