



# '66 ARMED FORCES DAY COMMUNICATION TESTS

In appreciation of the United States amateur radio operator's loyalty and patriotism the Department of Defense through the Departments of the Army, Navy and Air Force, annually sponsors a military-amateur radio communication program on Armed Forces Day. This year's program will be conducted on Saturday, May 21, 1966.

The Radio Amateur's contributions to communication training, international goodwill, military morale and emergency services are recognized by every echelon of the military services. The Armed Forces Day Communication tests are designed to be a tangible demonstration of the firm and long standing Department of Defense policy to encourage and support amateur radio activity. On this seventeenth observance of Armed Forces Day, all radio amateurs are invited to participate and demonstrate to the world the close partnership and mutual respect that U.S. amateurs and U.S. military enjoy.

This year several military radio stations are scheduled to participate in the communication tests which include military-to-amateur crossband operations and receiving contests for both continuous wave (CW) and radioteletypewriter (RTTY) modes of operation. Special QSL cards will be forwarded to those amateurs who establish two-way contact with the participating military stations. Certificates will be awarded to those who aptly demonstrate their

operating ability and technical skill by receiving a perfect copy of the Secretary of Defense originated "CW" and/or "RTTY" message(s) transmitted during the receiving contest portion of the communication tests. Interception by short wave listeners (SWL) will not qualify for a QSL card. However, anyone who has the equipment and abilities may copy the Secretary of Defense messages and receive a certificate.

## MILITARY TO AMATEUR TESTS

Washington, D.C. area military stations WAR, NSS and AIR will be on the air from 211400 GMT (1000 EDST, 0600 PST) to 220245 GMT (2245 EDST, 1845 PST). NPG (Navy, San Francisco) will be on the air from 211800 GMT (1000 PST) to 220801 GMT (220001 PST). The military stations will operate crossband by transmitting on spot frequencies outside the amateur bands and establish radio contacts with amateurs in the appropriate sections of the amateur bands. This is a test of crossband operations and contacts will consist of a brief exchange of locations and signal reports. No traffic handling will be permitted.

Amateur contacts from NPG (Navy, San Francisco) will be discontinued from 220245 GMT (211845 PST) to 220400 GMT (212000 PST) during the Armed Forces Day "CW" and "RTTY" receiving contests.

STATION	MILITARY FREQUENCIES KCS unless otherwise noted	EMISSION	APPROPRIATE (MCS) AMATEUR BANDS
WAR (Army Radio Washington, D.C.)	4001.5	CW	3.5 — 3.65
	4020	CW	3.65 — 3.8
	6992.5	CW	7.0 — 7.1
	7325	CW	7.1 — 7.2
	14405	CW	14.0 — 14.2
NSS (Navy Radio Washington, D.C.)	3269	CW	3.5 — 3.65
	4012.5	RTTY	3.65 — 3.8
	4015	CW	3.65 — 3.8
	4040	SSB/AM	3.8 — 4.0
	7301	CW	7.0 — 7.2
	7380	RTTY	7.0 — 7.2
	13992	CW	14.0 — 14.2
	14385	SSB/AM	14.2 — 14.35
	14480	RTTY	14.0 — 14.2
	* 143.820 MCS	RTTY AFSK/AM	144 — 145.5

\* Provided it is consistent with operational and training commitments, this frequency will be keyed from a U.S. Navy aircraft flying between Washington, D.C. and Boston, Massachusetts during the major portion of the time allotted for military to amateur crossband contacts. The flight path will be over Baltimore, Philadelphia, New York City and Hartford, Connecticut. The call sign NSSAM will be utilized from the aircraft.

AIR (Air Force Radio Washington, D.C.)	3347	RTTY	3.5 — 3.8
	3397.5	CW	3.5 — 3.8
	4025	SSB	3.8 — 4.0
	6997.5	CW	7.0 — 7.2
	7305	SSB	7.2 — 7.3
	7315	RTTY	7.0 — 7.2
	13995	CW	14.0 — 14.2

STATION	MILITARY FREQUENCIES KCS unless otherwise noted	EMISSION	APPROPRIATE (MCS) AMATEUR BANDS
NPG (Navy Radio San Francisco)	14397	SSB	14.2 — 14.35
	49.980 MCS	CW/SSB	50.0 — 54.0
	143.950 MCS	CW/SSB	144 — 148
	4001.5	RTTY	3.65 — 3.8
	4005	CW	3.5 — 3.65
	4013.5	SSB	3.8 — 4.0
	4016.5	CW	3.65 — 3.8
	7301.5	SSB	7.2 — 7.3
	7332	RTTY	7.0 — 7.2
	7375	CW	7.1 — 7.2
	13975.5	SSB/CW	14.0 — 14.35
	14385	CW	14.0 — 14.2
	49.692 MCS	AM	50 — 54
	143.700 MCS	RTTY AFSK/AM	144 — 148
	148.410 MCS	AM/FM	144 — 148

## CW RECEIVING CONTEST

A "CW" receiving contest will be conducted for any person capable of copying International Morse Code at 25 words per minute. The "CW" broadcast will consist of a special

Armed Forces Day message from the Secretary of Defense addressed to all radio amateurs and other participants. The schedule for this broadcast is as follows:

TIME	TRANSMITTING STATION	FREQUENCIES (KCS)
21 May 1966 220300 GMT (212300 EDST) (211900 PST)	WAR — Army	3347, 6992.5, 14405
	NSS — Navy	3269, 4015, 7301, 13992
	AIR — Air Force	3397.5, 7315
	AGUSA — Army Radio San Francisco, California	6997.5
	NPG — Navy Radio San Francisco, California	4001.5, 4016.5, 7301.5

## RTTY RECEIVING CONTEST

A radioteletypewriter "RTTY" receiving contest will be conducted for any individual amateur or station possessing the required equipment. This is a test of the operators technical skill in aligning and adjusting his equipment, and serves to demonstrate the growing number of amateurs becoming skilled

in this method of rapid communications. The "RTTY" broadcast will consist of a special Armed Forces Day message from the Secretary of Defense to all radioteletypewriter enthusiasts. The message will be transmitted at 60 words per minute in accordance with the following schedule:

TIME	TRANSMITTING STATION	FREQUENCIES (KCS)
21 May 1966 220335 GMT (212335 EDST) (212135 CST)	WAR — Army	3347, 6992.5, 14405
	NSS — Navy	4012.5, 7380, 14480
	AIR — Air Force	7315
	AGUSA — Army Radio San Francisco, California	6997.5
	A5USA — Army Radio Fort Sam Houston, Texas	4025
	NPG — Navy Radio San Francisco, California	4001.5
	AB6EA — McClellan AFB, Calif.	4580, 7332
	AG3HQ — Scot AFB, Illinois	4590, 7540

## SUBMISSION OF COMPETITION ENTRIES

Transcriptions should be submitted "as received." No attempt should be made to correct possible transmission errors.

Time, frequency and call sign of the station copies as well as the name, call sign (if any) and address of the individual submitting the entry must be indicated on the page containing

the text. Each year a large number of perfect copies are received with insufficient information, thereby precluding the issuance of a certificate.

Completed entries should be submitted to the Armed Forces Day Contest Room 5B960, the Pentagon, Washington, D.C. 20315 and postmarked not later than 31 May 1966.

# ADDRESSES FOR RECIPIENTS OF MAIL FROM ANTARCTICA

All messages carry numbers only to expedite matters. This list is complete as of the end of the week on April 8, 1966 and as often as possible you will be supplied with new addresses as they develop. Sked time is now and probably will remain at 0815 GMT since that permits excellent conditions to prevail as a rule. Their signal strength is very strong and usually 'Humpteen' db's over S9. They use 850 cycle shift most of the time so that as many as possible can print them. They reduce shift upon request and when lightning is bad here in the valley I ask them to use 85 cycles or 170 cycles depending on the severity of the storm. They have expressed a desire several times to have as many stations participate as will in order to spread the workload. Please pass the word along that the frequency is either 7123 or 7127 and as a rule it is 7127. They are snuggled nicely in between two foreign broadcast stations and it works out slick as we only use two whistles, Hi! 73 and hope this information will be useful to the entire gang of RTTY subscribers.

## W7ARS — WALT

01  
MRS. NYMFA O'CONNOR  
3549 W. 147th  
Cleveland, Ohio

02  
MRS. S. BROWN  
11408 Schuylkilt Rd.  
Rockville, Maryland 20853

03  
MRS. COLLEEN ANDREWS  
715 North Peachtree Street  
Ponca City, Oklahoma

04  
MRS. CHARLES REED  
Route 3  
Ripley, Mississippi 38663

05  
MRS. RUSSEL ANDERSON  
211 East Center  
Rochester, Minnesota

06  
WARREN B. MILLER  
Route 1, Box 156  
Coupeville, Washington 98239

07  
MRS. M. D. DRUMMOND  
1211 South 11th Street  
Mount Vernon, Wash. 98273

08  
MRS. VERN KONIECZKI  
4718 N. Hamilton Ave.  
Chicago, Illinois 60625

09  
MRS. LEON DEAN  
c/o Mrs. Vern Konieczki  
4718 N. Hamilton Ave.  
Chicago, Illinois 60625

10  
MRS. WILFORD MOUNCE  
1020 Monroe Street  
Quincy, Illinois 62301

11  
MRS. CHARLES WORRELL  
14 Cavalier Rd.  
Hampton, Virginia 23369

012  
MRS. DAVID BRYAN  
c/o L. T. Lundgren  
1153 Larch St.  
Coon Rapids, Minn. 55433

013  
MRS. MARY HUGHES  
1061 Ford Road  
Cornwells Heights, Penna. 19020

014  
MRS. JACK R. CONKLIN  
Fancy Gap, Virginia 24328

015  
MR. AND MRS. C. T. DRAKE  
Star Route  
Chugiak, Alaska 99567

016  
KAY BOWMAN  
105 West Carter  
Beeville, Texas 78102

017  
MRS. WILLIAM J. KLANSNIC  
c/o Mrs. J. W. Wheeler  
127 So. Cammann Street  
West Coos Bay, Oregon 97421

018  
MR. AND MRS. GEORGE ALLISON  
240 South Main Avenue  
Bourbonnais, Illinois 60914

019  
MRS. B. F. DRUMMOND  
Route 4, Box 602  
Travelers Rest, South Carolina

020  
MR. AND MRS. MARSHALL HOPDEN  
Box 101  
Weldona, Colorado 80653

021  
MR. CHARLES B. WELSH  
43 Glann Road  
Apalachin, New York

022  
FRANK L. HATCHER  
1036 Jackson Street  
Alexandria, Louisiana 71301

Continued . . .

## ADDRESSES (Continued) . . .

023  
MARTHA A. DEWITT  
Lot 7, CBC Trailer Park  
Davisville, Rhode Island 02854

024  
MICHELLE RIEG  
7 E. Spruce Way  
Duboise, Penna. 15801

025  
IRENE WEAVER  
3345 11th Street  
Port Arthur, Texas

026  
MRS. ANNIE R. GREENWALD  
Rt. 3, Box 130-A  
Florence, Alabama 35630

027  
MURIEL ROLLEFSON  
7932 Lampson  
Kwan Yin Apts. Nr. 30  
Garden Grove, California

028  
MRS. ELEANOR S. EPLER  
4703 Lancer Street  
Harrisburg, Penna. 17109

029  
MRS. J. M. GARRISON  
3112 Avenue R  
Wichita Falls, Texas 76309

030  
JOANN HOSGOOD  
338 South Apple Street  
Mt. Carmel, Penna. 17851

031  
MARY F. PERRIN  
1634 Dena Drive  
Memphis, Tenn. 38127

032  
MISS RUTH AARON  
750 No. Sixth  
Las Cruces, New Mexico 84001

033  
MRS. FRANK IRONI  
Long Cove Marina  
Off Point Juditt Road  
Narragansett, Rhode Island 02882

034  
DOROTHY F. MILLER  
36 West 87th Street  
New York, N. Y. 10029

035  
MRS. GEORGE H. WILSON  
485 W. Fifth Street  
Fallon, Nevada 89406

036  
MRS. R. J. MOFFAT  
405 Ridgeway  
Greensburg, Penna. 15601

037  
JIM DRUMMOND, RM3  
SCOTT STORM, ABF3  
Antarctic Support Activities  
CBC Davisvill, Rhode Island

038  
VIRGINIA M. NERROTTI  
P.O. Box 267  
Jamestown, Pennsylvania 16134

039  
MRS. BURTON PRINCE  
Elmbrook Farm  
Chesterfield, Mass. 11012

040  
THERESA CHERETTE  
9 Jane Street  
North Providence, Rhode Island 02904

041  
MISS DARLENE PRUITT  
108 W. Fifth Ave., Apt. 3  
Columbus, Ohio 43201

042  
MISS KATHLEEN GAY  
11 Condor Street  
East Boston, Mass. 02128

043  
MRS. DONNA MOORE  
516 Birmingham St., Apt. B  
Norfolk, Virginia

044  
MRS. GORDON W. BOYD  
Route 1, Box 495  
Somerset, Kentucky 42501

045  
MR. AND MRS. CLAREN BERGGREN  
Box 26  
Wilcox, Nebraska 68982

046  
MRS. JAMES AUSTIN  
2542 West Wilson Ave.  
Chicago, Illinois 60625

047  
MRS. J. E. RAY  
Box 755  
Chatham, Illinois

048  
MRS. GEORGE HUISENGA  
Route 1, Box 158  
David City, Nebraska 68632

049  
MRS. CHARLES E. DEEM  
2 Allen Street  
Milton, Florida 32570

50  
ALICE WHALEY  
841 Lake Road  
Youngstown, New York 14174

51  
MR. J. GUY BALLOU  
45 Hunts River Drive  
North Kingstown, Rhode Island 02852

052  
MRS. DONNA M. KATZ AND CINDY  
626 Sanwood Drive  
Battle Creek, Michigan

053  
MR. AND MRS. RAY BJERKAN  
27019 7th Place South  
Kent, Washington 98031

Continued . . .

## ADDRESSES (Continued) . . .

054  
A3C FAYE E. STEVENS  
AA8226420  
CMR Box 762  
Carswell Air Force Base, Texas 76127

055  
MRS. J. C. BALLOU  
45 Hunts River Drive  
North Kingstown, Rhode Island 02852

056  
MRS. WINIFRED A. BALLOU  
1216 3rd Street North  
St. Petersburg, Florida 33701

057  
MRS. THOMAS PROY  
3901 37th Street  
New Brighton, Penna.

058  
MISS BETTYE R. CARTER  
4615 North Capitol Street 303  
Washington, D. C. 20011

059  
MRS. PAMELA D. BIEHL  
c/o Mr. Fred Thomson  
5163 Ebenshire Road  
Memphis, Tenn.

060  
MRS. ERMA R. MAXWELL  
2445 Ome Avenue  
Dayton, Ohio 45414

61  
MRS. DONNA MOORE  
3501 N.W. Third Street  
Fort Lauderdale, Florida

062  
MISS DARLENE PRUITT  
108 W. Fifth Ave., Apt. Three  
Columbus, Ohio 43201

063  
SFC. FRED H. URBIN  
86B Soldier Road  
Fort Belvoir, Virginia 22060

64  
ALLAN M. GOLDSMITH  
Attorney At Law  
683 McAllister Street  
San Francisco 2, California

065  
MR. AND MRS. GEORGE W. HEVERLEY  
Rt. 2, Box 170  
Reynoldsville, Pennsylvania 15851

066  
MRS. LORRAINE A. PLICHTA  
273 Boynton Street  
Manchester, New Hampshire 03102

Before the  
**FEDERAL COMMUNICATIONS  
COMMISSION**

Washington, D.C. 20554

In the Matter of

Amendment of Section 97.61(b)(9)  
of the Rules and Regulations in the  
Amateur Radio Service (28 Mc/s) } RM -

**PETITION FOR RULE MAKING**

The American Radio Relay League, Incorporated, by its General Counsel, respectfully requests the Commission to amend Section 97.61(b)(9) of its Rules and Regulations to read as follows:

(9) 28.0 to 29.7 Mc/s, type A1 emission; 28.0 to 28.5 Mc/s, type F1 emission; 28.5 to 29.7 Mc/s, type A3 emission and narrow band frequency or phase modulation for radiotelephony and, on frequencies 29.0 to 29.7 Mc/s, special emission for frequency modulation (radiotelephone transmissions and radio telegraph transmissions employing carrier shift or other frequency modulation techniques).

In support whereof, the following is submitted:

Types A1 and F1 emissions are permitted by Section 97.81(b) of the Commission's Rules between 3,500 to 3,800 kc/s, 7,000 to 7,200 kc/s, 14,000 to 14,200 kc/s, and 21,000 to 21,250 kc/s, generally referred to as the CW bands. For reasons not apparent from orders and policy statements of the Commission, F1 emission is not authorized between 28.0 to 28.5 Mc/s, the CW portion of the 28 Mc/s band.

The usefulness of the 28 Mc/s band for long distance communication will increase during the next few years with the increase in sun spot activity. Considerable teleprinter operation using type F1 emission is expected. It seems desirable that such operation be permitted in the CW portion of the 28 Mc/s band as well as in the CW portion of the lower frequency bands.

Wherefore, the premises considered, the Commission is respectfully requested to issue a notice of proposed rulemaking looking to amendment of Section 97.61(b)(9) of the Rules as proposed herein.

Respectfully submitted,  
THE AMERICAN RADIO RELAY LEAGUE,  
INCORPORATED

225 Main Street  
Newington, Connecticut 06111

By \_\_\_\_\_  
ROBERT M. BOOTH, JR.  
Its General Counsel

BOOTH & LOVETT  
110 Vermont Avenue, N.W.  
Washington, D.C. 20005  
April 8, 1966

"Calling W9KJ . . .



"VOICE OF VIET NAM? Where's Frank?" The amateur radio friends of Frank Hughes, reporter, had trouble calling him in January. His call letters were the Tribune's Voice of Viet Nam which transmitted more than 2,000 messages. Here Frank, I, and Emerson Nye, composing proofreader, operate the equipment in the Tower lobby.

Air wave friends of Frank Hughes, reporter and ham radio operator, have had trouble reaching him lately. His call letters — W9KJ — have been busy.

Between Jan. 9 and Feb. 4, W9KJ was the Tribune's "Voice of Viet Nam," a service set up by the Tribune for Chicago area residents to transmit messages to and from service men in Viet Nam. More than 2,000 messages were sent by voice relay and high-speed teletype. The Tribune's service was cited Feb. 18 by the York Radio club of Elmhurst.

Among the amateur radio operators who volunteered to man the complex sending and receiving equipment in the Tower lobby was Emerson Nye, composing room proofreader, who has operated under the call letters W9ACR since 1930.

Briefly, this is how the system worked: The messages were punched in tape in the Tower and sent out over W9KJ. At each relay point the tape was reproduced from the radio signal. The message printed on a teletype machine at Tan Son Nhut, Viet Nam. Relay points were W9USA at Fort Sheridan; WAR to the Pentagon's MARS [military affiliate radio

service]; and AB6USA at Fort Shafter, Hawaii.

The voice circuit fed messages to NAV, the navy MARS station in Washington which handles marine and navy messages.

Station W9KJ and other Chicago area amateur radio stations phoned the return messages to Chicago senders.



MESSAGES were sent by J. Howard Wood, publisher, to his son, Lt. Robert E. Wood, and by Actress Anita Bryant, who chats with school friend Elaine Savalter, editorial.



March . . . . . 1966

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EDITOR:  
Ann E. Parker  
STAFF:  
Beth Seidman  
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Emparan No. 17

Göteborg, April 7, 1966

Dear Bud,

Unfortunately there was the inevitable mistake in some of the papers concerning the coming OPATIJA conference (Region I conference in Opatija, Yugoslavia).

Olle, SM5KV, has asked me to help straighten things out with some of the well-known RTTYers, so here is your copy of a corrected page.

**6) R.T.T.Y. Standards**

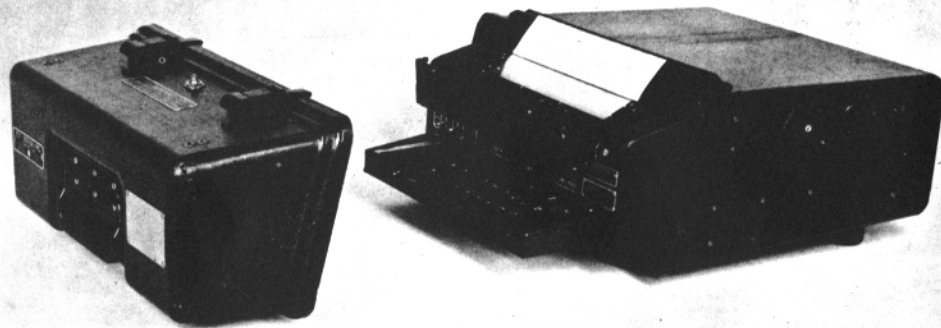
With reference to Folkestone Conference Document (F.C. 22) regarding R.T.T.Y. standards S.S.A. suggests the following specification:

Speed: 45 bauds=60 words per minute.  
Shift: 850 c/s (Hz) with the possibility of changing over to 170 c/s in the near future.  
Frequencies: To be allocated about 10 kc/s from the border of the phone band in each case and downwards 3590, 7040, 14090, 21090 and 28090 kc/s.  
Reports: To be given only by means of the R-system (R1-R5).



## Information Sheet

## Teletypewriter Set AN/TGC-14A(V)



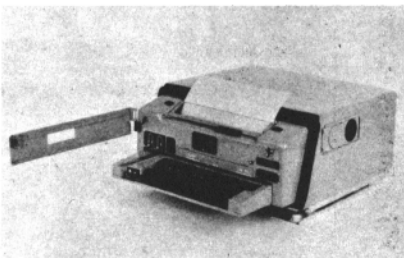
## Tactical Teletypewriter Set

A tactical teletypewriter set from every standpoint MITE designed AN/TGC-14A(V) is the first miniaturized mobile send-receive teletypewriter designed specifically for military employment.

This rugged and versatile light-weight unit can be set up to operate within one minute after connection to a primary power source — on the ground, in aircraft and in armored and other vehicles. It will transmit and print page copy of messages received at 100 words per minute, under the most adverse environmental and tactical conditions. The militarized MITE maintains reliable radio relay or wire circuit message sending and receiving in temperatures from  $-55^{\circ}\text{C}$ . to  $+55^{\circ}\text{C}$ . while withstanding severe shock and vibration as well as dust or salt spray atmosphere.

The MITE AN/TGC-14A (V) is a modular constructed assembly consisting of a receiving

and printing unit, a keyboard transmitter, a connecting electrical chassis, an immersion-proof or one of several special purpose carrying cases, shock mounts and connecting cables specifically designed and fully qualified to MIL-E-16400 and MIL-T-23330 (MC).



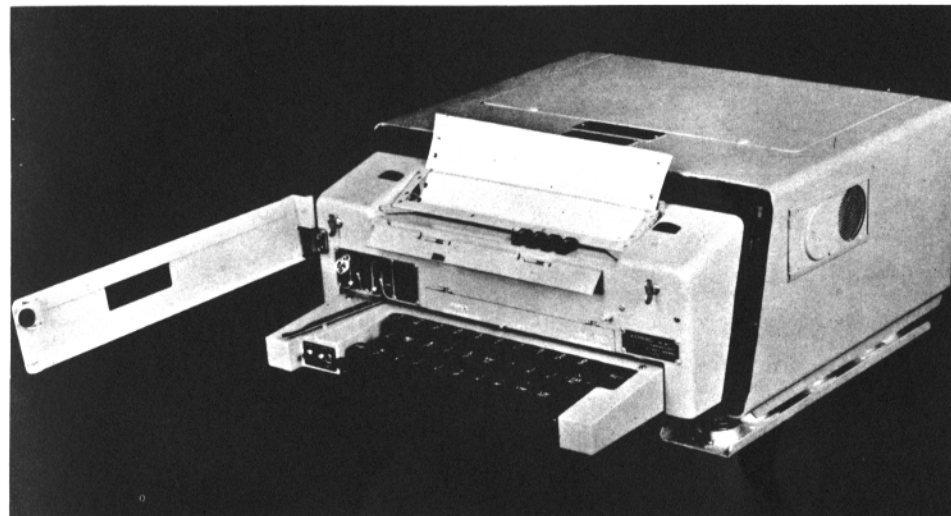
MCP-B/1-June 63

Information Sheet • MITE Corporation • New Haven, Conn.

## Information Sheet

west coast office  
1102 east swanee lane  
west covina, california  
phone 213 - 332-9340

Teletypewriter Set TT264/AG  
Teletypewriter Set TT299A/UG  
Teletypewriter Set TT395/UG



The MITE TT-264/AG, TT-299A/UG and TT-395/UG teletypewriters are lightweight, miniaturized, transmitting and receiving, page printing, telegraph sets, specifically designed for use in air to air or ground to ground; shipboard and submarine; and general communication use respectively. Modular in construction for easy access and inspection, the equipment weighs approximately 36 pounds, including transmitting keyboard, receiving page-printer, connecting chassis with internal line battery supply, and airborne-type case, complete with shock mounting.

The compact teletypewriter maintain highly reliable radio relay or wire circuit message sending and receiving capability, even under severe tactical and environmental conditions. They operate into or out of a converter for use over half-duplex (simplex) or full duplex radio communication links between calling stations.

An important design feature of the equipment is its self-contained electrical system which requires only connection to a primary power source

and transmission media to place the equipment in operation.

All the units use solid state electronic line sensing in lieu of conventional electro-mechanical relays, improving the operating characteristics and enhancing life reliability.

Designed and fully qualified to specifications MIL-E-5400 and MIL-E-16400, the units provide optimum performance under severe climatic, high altitude, and environmental conditions. With self-contained heaters, the teletypewriters require less than 40 minutes for warm-up at ambient temperatures of  $-54^{\circ}\text{C}$ .

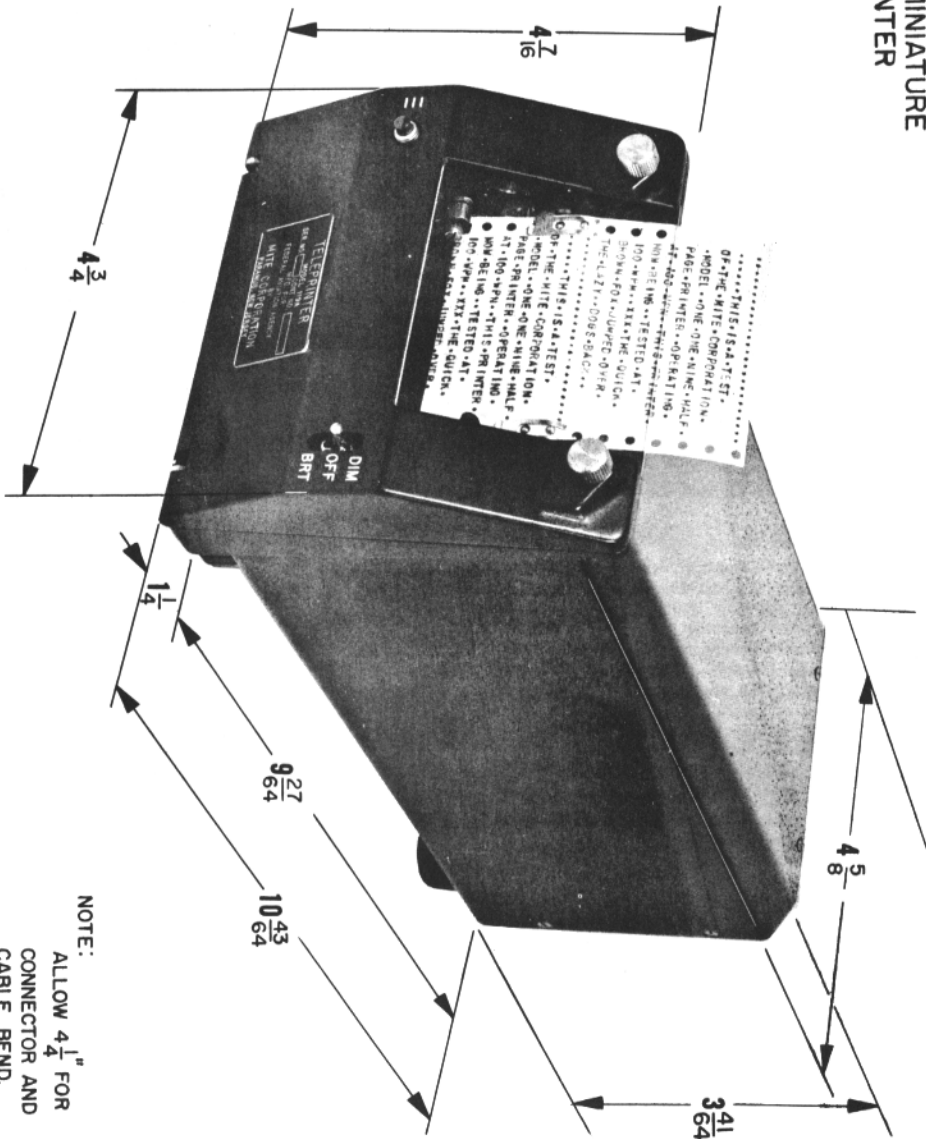
The TT-298A/UG is a receive only version of the TT-299A/UG and the TT-394/UG is a receive only version of the TT-395/UG. Otherwise the characteristics of the receive only units are identical to the send-receive units and can be converted to the latter merely by insertion of the keyboard, which can be accomplished without the use of tools.

MCP-B/1-June 63

Information Sheet • MITE Corporation • New Haven, Conn.

For additional information on these printers, write to:  
Wayne D. Walton, 1102 East Swanee Lane, West Covina, California

MODEL-119  
MICRO-MINIATURE  
TELEPRINTER



NOTE:  
ALLOW  $4\frac{1}{4}$ " FOR  
CONNECTOR AND  
CABLE BEND.

WA6FKN PLUG-IN  
RTTY FILTERS

JAMES R. HUMPHREY WA6FKN  
P.O. Box 34, Dixon, California 95620

Every effort has been made to provide you a high quality, flexible and accurately tuned filter. The glass epoxy circuit board is nickel plated before etching and gold plated after etching. The high Q 88 mh coil is the popular telephone type. The capacitor is a stable mylar type with wide temperature range and long life. Accurate tuning reduces errors in receiving copy and provides you with a reference for setting your transmitter shift.

For proper pin connections refer to the foil side of the printed circuit board. The frequency of the resonant circuit is etched in the foil to prevent mixups.

As supplied the standard parallel resonant circuit is brought out to pins 4 and 6. The centertap is brought out to pin 1.

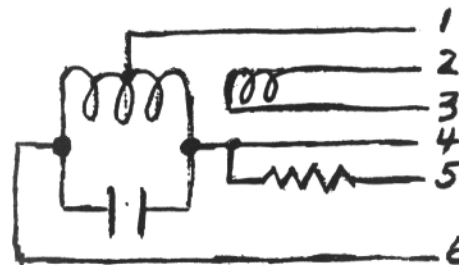
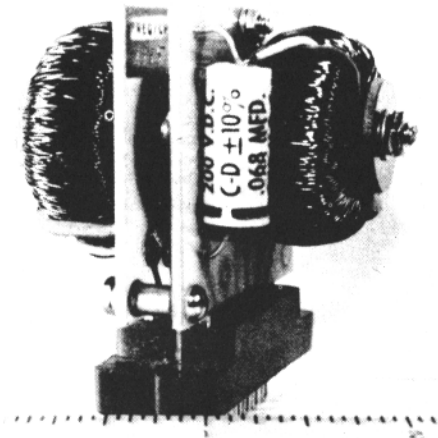
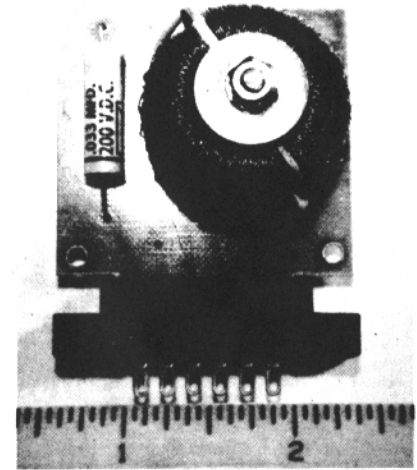
If you desire to load your filters to increase bandwidth, provisions are made on the circuit board. Use a half watt resistor of the proper value and solder it in the two holes provided directly over pin 5. Use pins 5 and 6 for the connections to the loaded filter.

Provisions are also made for a low impedance tap. Remove the screw holding the toroid and, using care to prevent breaking the existing wires, wind the necessary turns of wire around the toroid and solder them to the PC board using the holes directly over pins 2 and 3.

Three holes are provided in each board for mounting 2 filters back to back so they may be plugged in as a set. Use spacers and 4 - 42 screws to hold the two together.

These filters carry a money back guarantee of satisfaction.

Additional filters are available for \$4.25 each, postpaid. Specify frequency with your order. See you on the bands. 73



## FCC INTERPRETS ITS RULES ON INTERFERENCE

Deliberate interference is subject to penalties. See July '57 QST, page 83, and Sept. '56 QST, page 72. We there recorded the suspension of W9PYM's amateur license — for his interference with Badger Net (Wis.) operations. FCC now further interprets its regs. We're pleased so far as space here permits to QUOTE excerpts from an FCC letter of Feb. 4, '66 to K6BX, copy just sent us by him.

### FCC GUIDELINES FOR THE AMATEUR SERVICE

"... Amateur operators are expected to anticipate and minimize . . . interference. Failure to do so indicates either ignorance of the practical realities . . . or a selfish lack of consideration for others . . . The following guidelines and considerations are presented.

"Licensees . . . already in operation should remember that no amateur licensee, group, or network, has a right to the priority or exclusive use of a given frequency, nor may freedom from interference be expected. Exception is provided under the emergency provisions of rule 97.107. Common courtesy as well as good practice dictates that incessant or continuous non-emergency operation, so as to preclude others from operating is highly undesirable and unwarranted, and if wilful or malicious, could result in the imposition or punitive measure . . .

"Sec. 97.125 provides: "No licensed radio

## FEDERAL COMMUNICATIONS COMMISSION

WASHINGTON 25, D. C.

Address all Communications

To The Secretary  
In Reply Refer To:  
7523

March 17, 1966

Mr. John C. Larson  
330 North Saltair Avenue  
Los Angeles, California 90049

Dear Sir:

This is in reply to your recent letter regarding the proposed use by properly licensed amateurs of Western Union sixty-six words per minute equipment for radio-teletype transmissions in the FSK mode.

The technical difference between the Western Union signal code and the standard teletype code indicated in Section 97.69 of the Amateur Radio Service rules has been noted. Since it appears that the use of the proposed equipment is normally not expected to impose any serious operating or monitoring problems, we approve the use of such equipment by amateurs.

Very truly yours,  
BEN F. WAPLE  
Secretary

operator shall wilfully or maliciously interfere with or cause interference to any radio communication or signal." OBSERVANCE OF GOOD AMATEUR PRACTICE REQUIRES THE AVOIDANCE OF ATTEMPTING OPERATION ON A FREQUENCY WHERE IT IS OBVIOUS OR LIKELY THAT SUCH OPERATION WILL RESULT IN HARMFUL INTERFERENCE. ALL LICENSEES SHOULD AVOID THE FOLLOWING FREQUENCY OBSERVED IMPROPER PRACTICES, SOME OF WHICH CONSTITUTE WILFUL INTERFERENCE FOR WHICH SEVERE PENALTY IS PROVIDED:

"A. Knowing and repeated operation on, or unreasonably close to a net frequency at times when the net is obviously active;

"B. Requesting or demanding protection of a net frequency at times when the net is inactive;

"C. Requesting or demanding protection of a net frequency over a long period of time in the absence of an emergency situation;

"D. Calling, testing, or tuning on a frequency without first determining that the frequency is not already being used;

"E. Carrying on an exchange of communications on two (or more) separate frequencies when there is no technical or operational necessity . . ."

from ARRL CD Bulletin, April '66

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At the suggestion of President Hoover the Committee reviewed the League's standing operating recommendations, with special attention to increasing RTTY activity. After discussion, on motion of Mr. Denniston, unanimously VOTED to add thereto a recommendation urging the use of RTTY emission to be converted as rapidly as possible to 170-cycle shift, in order to achieve better communications efficiency and promote more economical use of spectrum space. From ARRL Directors letter, March 26, 1966. RTTY heartily endorses this suggestion. —Ed.

----- O -----

Re: HEATHKIT SB-200 and RTTY Operation, March 1966, page 8. The last paragraph should read, "It should be noted that the SWR must be BELOW 2:1 or there will be a loading problem. As a matter of policy, the Heath Company does not recommend the SB-200 for RTTY operation. — Sorry, typesetter left BELOW out.

----- O -----

The SOUTHWESTERN DIVISION ARRL convention will be held May 27-28-29, 1966 at the Disneyland Hotel. RTTY Luncheon is featured event, along with demonstrations. Registrations should be mailed to ARRL Convention, P. O. Box 217, Tustin, California 92680.

## RTTY-DX

BUD SCHULTZ, W6CG  
5226 N. Willmonte Avenue  
Temple City, California 91780

Hi DX'ers:

The "DX Desk" is covered with so much material in the line of new countries and DX activity that I can hardly find the keyboard of this little Olivetti — but don't misunderstand me — I am not complaining! Conditions for the BARTG Contest were good and some tremendous scores were made. In a letter to Skipper, W2RUI, the Contest Secretary, G2HIO, reports that as of March 26 the high score received was in the region of 65,000 points. Since receiving this report G3MWI told me in a QSO today that his un-official score was 69,828. W2RUI's unofficial score is something over 85,000 which is a tribute to a fine effort by one of the World's top DX'ers. Cole, K5OLU, sent in a copy of his log which shows a total of 41,140 and is subject to a big upward revision due to some confusion of the "countries worked" clause in the rules. Cole's log shows 22 countries worked but under the interpretation just received from G2HIO via W2RUI his total should be 37, which would raise his total by a large margin. XE1YJ mailed us a copy of his log showing a total of 17,220 but like those mentioned above it would appear that Pierre's score is also subject to some upward revision. The confusion in the scoring seems to stem from the fact that contestants were not sure whether to take the additional 200 bonus points and the additional multiplier when a country was worked on more than one band. To help clarify this — here is a direct quote from G2HIO in his letter to W2RUI: "Thank you for your letter regarding Rule 3. You are quite correct in assuming that a country can be counted again, as in the case of Rule 3 in the October RTTY Fifth Annual World-Wide Contest."

So much for the BARTG Contest — now let's look at some of the new ones that showed up during and since then. The biggest excitement to hit the bands in a long time was the appearance of Ron, HL9KF: Getting HL9KF on RTTY should be credited to the efforts of Jose and Sonia PY2CQ/PY2SO. They have had SSB skeds with Ron for the past 5 months and talked him into getting on RTTY. Jose also reports that HL9TM should be active on RTTY by the time this column is published. PY2CQ/PY2SO made about 31,000 points in the Contest which is a fine effort for their very first competition on the FSK mode. I should also mention that HL9KF worked fourteen countries in the Test and was responsible for giving many of the gang their Asian contact.

John, W3KDF, has become one of the most consistent contributors to this column and has

come up with some real outstanding new ones reported during the last 30 days. John tells of working H18RR, Rene, and H18JFT, Jose, during the contest. They are jointly operating the same gear and have some shift problems but are very strong into the States. W3KDF also reports working UB5GS, Alla, (YL) for her first USA QSO. Another new one worked was G13HCP, Desmond, and John says he has fine signals and excellent FSK. In addition to the above W3KDF tells of logging UA1KAL and UB5AC. (That last named station broke this reporter's heart during the Contest — I just couldn't cut it!) One of the best signals heard (and worked) here from Europe during the month was HA5KBB from Budapest. His signals were peaking above the Stateside QRM for hours!

My good right arm K3GIF, Ed, came up with lots of real juicy news for you jaded DX'ers. He has news that FB8XX is now due any time on RTTY. FB8XX had final tube trouble in his BC-610 but this has been taken care of and he is due back this month. VP3AA worked FG7XT for his first contact and gave K3GIF country nr. 58! Ed tells us that W21OX worked a new one in Haiti and recalls that HH5P was active last year on FSK so perhaps this will give many a chance to add another new one to their list. Ed also mentions that W2LNP reported that VS6AZ is on from Hong Kong but has a poor converter and it takes a pretty strong signal to get on his printer. Hope we can find some way to give him a "lift" on the converter deal. Ed comments that SU1KH in Cairo continues to be difficult to work due to the poor conditions into Africa. — Speaking of Africa — EL2F, Orbra, is still quite consistent with his fine signals and gave many of the gang that Continent during the Contest when the other African signals were suffering from the bad propagation. VK2EG is still trying for State-side contacts via the long path but by now the best time has advanced to 2100 to 2200 GMT. K3GIF also heard Alec, XL3HJ, long path but was unable to make a QSO. During the Contest KW6DS was heard consistently on the East Coast but because of the "pile-ups" on him contacts were quite difficult. FG7XT has received his BARTG certificate for working 25 countries on RTTY and has furnished the British Group with QSL's confirming 36 countries. Nice work, Jean! Incidentally, Ed also mentioned in his report that during the Contest G3MWI, 11ORS and DJ6ZBA all came thru with good copy on 7040 Kcs! — and speaking of forty-meters —

Continued . . .

## RTTY-DX (Continued) . . .

W6AEE (the "Boss Man") tells me that KC4USV prints very well here on the Coast starting around 0815 GMT on 7127.

In a QSO with VK3KF I was pleased to learn that Eric has been able to keep his schedules with Cas, KA9AK (Ex KR6AK) on 15 meter CW around 0100 GMT. Eric says Cas is still watching for ten meter openings along with KA2KJ and KA2LD in the hope of getting some RTTY going on that band. Let's not let these chaps down — keep your ear open to 29 Mcs — it may pay off. Who's going to be the first to work Japan on ten meters?

The BARTG Newsletter came in this month and its a dandy! Twenty-eight pages crammed with all kinds of DX news, technical info and general RTTY gossip edited by Arthur Owen, G2FUD. Among the material in the current issue is an article by Ingemar, SM6CSC, on the art of making picture tapes which should prove to be very useful to many of you who are interested in this sort of thing. If anyone is interested in becoming a member of the BARTG and receiving the Newsletter I suggest writing to the Secretary, Alan Walmsley, G2HIO. The fee is reasonable and it is truly a fine group to be associated with.

Earlier when we were talking about new ones to look out for I forgot to mention that K5OLU had the first Stateside QSO with KG6AJP on Guam in the Marianas. KG6AJP, Bill Allen, is Ex KZ5HA and runs a 32S1, 75S3 and a TA-36 Beam. Bill should cause a few pile-ups in the months to come.

Before signing off for this month I hope you will bear with me while I comment on five or six inquiries that have crossed the DX desk lately regarding the growing trend of typers to append the words "CW identification follows" at the end of each transmission. This particular operating habit was very adequately discussed by Byron Kretzman, W2JTP, in his "RTTY" column on page 91 of the March issue of CQ Magazine. I must whole-heartedly agree with the views expressed by W2JTP on this subject. The FCC regs regarding identification for RTTY sta-

tions are very clear and if they are to be adhered to, the warning that a CW ID is about to be used is entirely unnecessary. The regulations make it clear that a station identification must be made at least once every ten minutes during a QSO. For RTTY operation the Morse Code portion of your identification need only contain your own call but the ID on the keyboard must also show the call letters of the station you are communicating with. If you are not clear on the procedure refer to the Kretzman article in March '66 CQ magazine. Let's improve our operating procedure in the interest of speeding things up a bit. While on the subject of ID's I should also mention a letter I received this month from one of the RTTY'ers who happens to work for the FCC as an inspector. He points out (un-officially) that some of the gang are including their "nick name" or handle directly ahead of their call letters as part of their identification. According to the regulations this is not legal since your assigned call letters should follow the transmission of "DE" and obviously the inclusion of your name ahead of your call letters only confuses the situation — particularly under adverse conditions. He points out further that including your name at the end of your call sign is OK if you think this practice is necessary.

We have just received word via IIORS that the Volta DX contest will take place starting May 20th at 0200 GMT and run until May 22nd at 0200 GMT. Lou also says there will be a change in the rules this year but at press time the new rules have not arrived so I suggest you check after the contest for the scoring method. Unfortunately this Contest falls on the same week-end as Armed Forces Day so don't overlook copying the Official message from the Secretary of Defense and perhaps a contact or two with the Military stations available to the RTTY'ers.

Thanks to all for news sent in this month. Your support was tops! Next month's column will be handled by the number one DXer — Ed Clammer, K3GIF so keep the news coming for him. I'll see you here in July. 73

Bud, W6CG



W2JAV

W6CG

K3GIF



## HORSE TRADES

**WANTED:** The 7 plug in circuit boards for 101A Data Set. John Riley, 914 North Cordova Street, Burbank, California 91505.

**FOR SALE:** 400 cycle precision electronic tuning fork, two tube (6AU6), you furnish tubes and filament/B plus, guaranteed; modify to 425 cycles for \$50, 2125, 2975 cycle output, with schematic, postpaid, \$4.00; 88 mhy toroids 5 for \$2.00; magnetic AFSK or chadless perforated TEST Tape, each \$2.00; model 14, 15 sync motors, \$5.00; model 28 sync motors \$15.00; Kleinschmidt sync or governed motors \$10. All motors freight collect. K5BQA, 11040 Creekmere, Dallas, Texas 75218. Model 14 TD, VE7AMJ, 677 Cooney Road, Richmond, B.C., Canada.

**WANTED:** Model CV-57 frequency shift converter including photocopy of most of the instruction manual. Will cover 500KC IF. Good condition, \$75.00. Also have 4 new 4-65A, 2 new 4-125A 6 used 4X150A, 1 new 7YP2 five gun CRT with socket, make offer or what do you have to trade. W1BRJ, 29 Suffolk Avenue, Swampscott, Mass. 01907.

**FOR SALE:** Or Trade. Teletype equipment and parts, send SASE for free list. W4NYF, 405 N.W. 30th Terrace, Ft. Lauderdale, Florida 33311. Phone after 9:00 p.m., EST, LU 3-1340.

**FOR SALE:** Teletype paper 8 1/2" standard roll, \$8.00/case of 12 rolls. Teledeltos FAX paper, \$1.00 roll. RA-87 power supply \$6.00. Model 26 \$50.00. Model 101 \$20.00. Model 14 Tee Dee, \$40.00. Model 15 \$75.00. SX99 \$65.00. Gosnet G-43 \$75.00. AF67 \$40.00. Send for list. WANT 812A, 811A, 4CX250B, 826, 5894, Send info. W2DLT, 348 R Essex Street, Stirling, N.J. 07980.

**FOR SALE:** Model 14 typing reper, w and w/o keyboards. Model 15s, 19, 26s, 28RO, 28KSR etc. Send SASE for list. W6VPC, 1067 Mandana Blvd., Oakland, California 94610.

**FOR SALE:** Plug-in RTTY filters, small size, 1 1/4 x 2". See photo this issue, \$4.25 each. Also 88 mhy toroids, five coils \$2.50. WA6FKN, P.O. Box 34, Dixon, California 95620.

**FOR SALE:** Model 28-LARP/LARB, complete for parts only, also xint. sync motor for same. Model 19, complete, like new. Model 150 Kleinschmidt, mint cond. K6PZT, 9337 Gotham St., Downey, Calif. Phone TOPaz 9-3292.

## CONVERSION OF MODEL 14 STRIP PRINTER FROM 5/16" TAPE TO 3/8" TAPE

JIM HAYNES, WA9IBB

966 Chestnut Street, Deerfield, Illinois

Parts are available from Teletype and are:

6845 Tape Guide, Right  
6930 Tape Guide, Left  
6932 Feed Roll

90139 Tape Guide Tube (for base)

On some machines the feed roll will not require changing as it will work with either width of tape. Parts cost will be about \$5, or about \$3.50 without the feed roll. The original platen roll should work with either tape width. If a new one is needed the Part No. is 6960.

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