HORSE

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RTTY

This page of the Bulletin is for use of amateurs who have RTTY EQUIPMENT FOR SALE OR TRADE and someone on the air. those looking for equip-ment to buy or trade. It is a free service and may

NC.

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NEWS OF **AMATEUR** RTTY

SEPTEMBER, 1964 30 Cents Vol. 12, No. 9

ARMED FORCES DAY 1964 COMMUNICATION TEST RESULTS

Performance of participating amateur radio operators was rated "excellent" by Armed Services communication experts during the communications tests conducted in conjunction with Armed Forces Day, May 16, 1964.

An unprecedented 7586 radio contacts with the amateur radio operator fraternity were made during the twelve hours and forty-five minutes of crossband operations which were

scheduled for that one day.

Four military radio stations, WAR (Army), NSS (Navy), and AIR (Air Force), located in the Washington, D.C. area and NPG (Navy San Francisco), were authorized to conduct the tests and operated on fixed frequencies adjacent to the amateur bands throughout the test period. The general consensus of opinion within the military communicators' group actively involved was that the amateurs demonstrated a gratifying level of operating skill technical know-how, and an obvious emergency military communications potential.

A commemorative QSL card has been forwarded to each contact who could be identified in the Summer 1964 edition of the Callbook. Any amateur who has not yet received a QSL card confirming his contact should address a request for clarification to the Armed Forces Day Contest, Room 5B963, the Pentagon, Washington 25, D.C. This request must include the amateur's call sign, the station worked, time of contact, and the frequency utilized by the military station.

A Certificate of Merit has been issued to amateurs who submitted a perfect copy of either or both of the Secretary of Defense messages which were transmitted during the communications test. There were 742 perfect entries for the 25 WPM CW broadcast and 620 perfect copies submitted of the 60 WPM radio teletypewriter message. Grading has been completed and entries not considered perfect have been returned to the sender together with a letter of explanation of the errors detected. As always, some perfect entries were submitted without identification of the sender. Here again, an amateur who has not yet received a reply to his entry should write to the Armed Forces Day Contest at the address listed above. It is quite possible that the entry may be among those as yet

The complete text of the 25 word per minute Morse Code message is printed below followed by the call signs or names of individuals who received a Certificate of Merit for submitting a perfect contest entry.

ON THIS 15TH ANNUAL OBSERV-ANCE OF ARMED FORCES DAY THE

MILITARY AFFILIATE RADIO SYSTEM PAREN MARS PAREN FACILITIES OF THE ARMY CMM NAVY AND AIR FORCE AGAIN AFFORD ME THE OPPORTUN-ITY TO EXTEND GREETINGS TO ALL AMATEUR RADIO OPERATORS THROUGHOUT THE WORLD PD THE VALUABLE AND VARIED SERVICES WHICH AMATEURS HAVE PERFORMED BOTH IN WAR AND IN PEACE IN THE COMMUNICATIONS AND ELECTRON-ICS FIELD ARE WELL KNOWN AND APPRECIATED IN THE DEPARTMENT OF DEFENSE PD MODERN TECHNOL-OGY CMM WHICH HAS SHRUNK OUR WORLD AND PUSHED US INTO THE SPACE AGE HAS FORCED MANY RE-VISIONS IN OUR CONCEPTS OF NA-TIONAL DEFENSE PD I AM CONFI-DENT THAT FORWARD LOOKING PRO-GRAMS OF THE RADIO AMATEUR SERVICES WILL CONTINUE TO HELP US IMPROVE OUR KNOWLEDGE AND OUR CAPABILITY IN AN ESSENTIAL PART OF OUR DEFENSE EFFORT PD IN THIS YEAR OF THE 50TH ANNI-VERSARY OF THE FOUNDING OF THE AMERICAN RADIO RELAY LEAGUE I COMMEND ITS OFFICERS AND MEM-BERS FOR THEIR MANY CONTRIBU-TIONS TO THE COMMUNICATIONS ART AND TRUST THAT THE QUALITY OF THEIR LEADERSHIP IN AMATEUR RADIO AFFAIRS SO ABLY DEMON-STRATED IN THE PAST WILL PROSPER AND INCREASE IN THE FUTURE SGD ROBERT S MCNAMARA CMM SECRE-TARY OF DEFENSE

K1AAA K11EH W1SRM K2GKO W1AII W1IHN W1TAP W2GKZ W1AOR W1IIB K1TAX W2GON W1WPR W2HGY W1AXK WIIKE W1BB W1LZL K1YOZ WB2HTL W1BDI W1MCG WIZAD WB2ILY W1BGW KIMEG K1ZVN WA2IMT W1BMW W1MFJ W1ZYO WA2INO W1CBT W1MD WB2AVK W2ICA WA2BGI K2JUA W1CMW W1MIP K1CUE K1NOW W2BVE WÅ2KIP W10LS W2BXW W2KLD W1ECH W10MN WA2CKL W2LRW W1ELL W2CLO K1EWL K1PLP W2LYH K1FPB K1QZV K2EOP W2MTA WB2FMK WA2MYS W1FV K1ŘHN K1GGG W2FPM W2MZB W1RXP W1GPY W1SAD WA2FPT W2NVB WB2FVD W2OBU W1GZO K1SDX K1HCH W1SGU WB2GIG W2OCO

			TTTEOTET
W2OE	K3LYW	WA4JYB	W5GKV-
W2OXL	W3MCG	W4KH	/MM
WA2OWQ	VOME		W5GOG
		W4KIS	
W2PKY	K3MNT	WA4KJB-	WN5GVB
WA2PVB	K3MTT	/MM	WA5GWR
			W5HFN
K2QDG	W3MWV	W4KJL	
W2QND	W3NGL	WA4KPP	WN5HIA
WA2QPW	W3NHX	W4KR	W5AKE
WA2RGQ	K3NJW	W4KVO	W5IDZ
W2RN	W3ŇQA	W4LYV	WN5IIN
K2RQT	K3NZB	W4MHW	W5IGY
WA2RSE	W3OPO	K4MTL	W5IGZ
W2RUK	W3ORS	W4MWL	WA5JDR
W2RUT		WA4-	WA5JFB
	W3OY_	VV /14-	
WA2RXO	W3RDF	NDM/1	W5JGK
K2SEN	W3RKF	W4NPG	K5JGZ
			K5JVF
W2SIL	K3STI	W4NTE	
K2SOX	W3SXL	W4NZP	W5KQC
WA2SRK	K3TUV	W4OI	W5NW
W2TU	K3TZD	K4OLG	W5NXZ
W2TUK	K3UFV	WA4OMI	K5MBB
K2UGZ	K3UPR	K4OMX	W5MFX
WA2UPC	W3UQX	WA4OMZ	K5OCX
K2UTV	K3USH	W4OSC	W5QMJ
WA2VSQ	W3WHK	WA4OSR	WA5QVZ
WA2VYS	W3WXB	W4PQP	W5RCF
W2WBY	W3WZC	W4PTR	W5RIH
W2WHM	W3ZLP	K4PVP	K5THK
WA2WKK	W4AAD	W4RHZ	W5USA
WA2WUB	W4ABY	W4RKQ	K5VQU
K2YQK	K4AS	W4RQB	K5YAA
W2ZMK	K4BAI	W4SLJ	K5YKS
WA2ZQH	W4BNU	WA4SSB	K5YTA
W2ZUK	K4BP	WN4SSU	W5ZU
W2ZVV	W4BWZ	W4TGB-	W6AAQ
W3ADE	W4CCC	/MM	W6AEE
W3AEA	W4CH	W4UNA	W6AM
W3AEL	WA4CTD	W4UUI	W6AWP
W3AVQ	W4CXY	W4VHX	W6AXV
W3AX	W4DAP	W4VUE	K6BAY
W3AXA	W4DDQ	W4VYB	W6BHG
W3BFF	WA4DLF	K4WH	K6BPI
W3BHK	K4DMU	W4WHF	W6BVY
		K4YOO	W6BYS
W3CA	W4DVT	K41OQ	
W3DZL	W4EFV	W4YPĬ	K6CB
W3ECP	WA4EGI	W4ZM	W6CBX
		K4ZSX	W6CFE
W3EKL	K4EHV		
W3ELI	K4EOF	W5ACK	W6CHL
W3EML	W4EOP	K5ADQ	W6CKU
W/3E(1)	WAAFIM	WEATR	W6CLB
W3EOV	WA4FJM	W5AIR	W6CLB
K3FKG	W4FPW	W5AIR W5AJG	K6CME
K3FKG	W4FPW	W5AJG	K6CME
K3FKG K3GIH	W4FPW W4FRO	W5AJG W5ARK	K6CME W6CWR
K3FKG K3GIH K3GOH	W4FPW W4FRO WA4GLC	W5AJG W5ARK W5BBV	K6CME W6CWR K6DV
K3FKG K3GIH K3GOH W3GOT	W4FPW W4FRO WA4GLC W4GLL	W5AJG W5ARK W5BBV W5BCF	K6CME W6CWR K6DV W6DVD
K3FKG K3GIH K3GOH	W4FPW W4FRO WA4GLC W4GLL	W5AJG W5ARK W5BBV	K6CME W6CWR K6DV
K3FKG K3GIH K3GOH W3GOT W3GUS	W4FPW W4FRO WA4GLC W4GLL K4GMR	W5AJG W5ARK W5BBV W5BCF WA5BNK	K6CME W6CWR K6DV W6DVD K6DX
K3FKG K3GIH K3GOH W3GOT W3GUS W3HDL/4	W4FPW W4FRO WA4GLC W4GLL K4GMR W4GNU	W5AJG W5ARK W5BBV W5BCF WA5BNK W5CAC	K6CME W6CWR K6DV W6DVD K6DX K6DYX
K3FKG K3GIH K3GOH W3GOT W3GUS W3HDL/4 K3HTZ	W4FPW W4FRO WA4GLC W4GLL K4GMR	W5AJG W5ARK W5BBV W5BCF WA5BNK	K6CME W6CWR K6DV W6DVD K6DX K6DYX K6EA
K3FKG K3GIH K3GOH W3GOT W3GUS W3HDL/4 K3HTZ	W4FPW W4FRO WA4GLC W4GLL K4GMR W4GNU W4HOS	W5AJG W5ARK W5BBV W5BCF WA5BNK W5CAC W5CCF	K6CME W6CWR K6DV W6DVD K6DX K6DYX
K3FKG K3GIH K3GOH W3GOT W3GUS W3HDL/4 K3HTZ W3IDO	W4FPW W4FRO W4GLC W4GLL K4GMR W4GNU W4HOS W4IJK	W5AJG W5ARK W5BBV W5BCF WA5BNK W5CAC W5CCF W5CME	K6CME W6CWR K6DV W6DVD K6DX K6DX K6DYX K6EA W6ELT
K3FKG K3GIH K3GOH W3GOT W3GUS W3HDL/4 K3HTZ W3IDO K3ILC	W4FPW W4FRO WA4GLC W4GLL K4GMR W4GNU W4HOS	W5AJG W5ARK W5BBV W5BCF WA5BNK W5CAC W5CCF	K6CME W6CWR K6DV W6DVD K6DX K6DYX K6EA W6ELT K6EPT
K3FKG K3GIH K3GOH W3GOT W3GUS W3HDL/4 K3HTZ W3IDO K3ILC W3IVC	W4FPW W4FRO W4GLC W4GLL K4GMR W4GNU W4HOS W4IJK W4IMC	W5AJG W5ARK W5BBV W5BCF WA5BNK W5CAC W5CCF W5CME WA5CTW	K6CME W6CWR K6DV W6DVD K6DX K6DYX K6EA W6ELT K6EPT WB6EUJ
K3FKG K3GIH K3GOH W3GOT W3GUS W3HDL/4 K3HTZ W3IDO K3ILC W3IVC	W4FPW W4FRO W4GLC W4GLL K4GMR W4GNU W4HOS W4IJK W4IMC W4JJT	W5AJG W5ARK W5BBV W5BCF WA5BNK W5CAC W5CCF W5CME WA5CTW W5CYE	K6CME W6CWR K6DV W6DVD K6DX K6DYX K6EA W6ELT K6EPT W86EUJ W6EXQ
K3FKG K3GIH K3GOH W3GOT W3GUS W3HDL/4 K3HTZ W3IDO K3ILC W3IVC W3JFP	W4FPW W4FRO W4GLC W4GLL K4GMR W4GNU W4HOS W4IJK W4IMC	W5AJG W5ARK W5BBV W5BCF W45BNK W5CAC W5CCF W5CME WA5CTW W5CYE W5DWB	K6CME W6CWR K6DV W6DVD K6DX K6DYX K6EA W6ELT K6EPT W86EUJ W6EXQ
K3FKG K3GIH K3GOH W3GOT W3GUS W3HDL/4 K3HTZ W3IDO K3ILC W3IVC W3IVC W3JFP W3JHR	W4FPW W4FRO W4GLC W4GLL K4GMR W4GNU W4HOS W4IJK W4IMC W4JJT W4JJU	W5AJG W5ARK W5BBV W5BCF W45BNK W5CAC W5CCF W5CME WA5CTW W5CYE W5DWB	K6CME W6CWR K6DV W6DVD K6DX K6DYX K6EA W6ELT K6EPT WB6EUJ W6EXQ W6EY
K3FKG K3GIH K3GOH W3GOT W3GUS W3HDL/4 K3HTZ W3IDO K3ILC W3IVC W3IVC W3IPP W3JHR W3JRV	W4FPW W4FRO W4GLC W4GLL K4GMR W4GNU W4HOS W4IJK W4IJK W4IJT W4JJU K4JKK	W5AJG W5ARK W5BBV W5BCF WA5BNK W5CAC W5CCF W5CME WA5CTW W5CYE W5DWB W5EJV	K6CME W6CWR K6DV W6DVD K6DX K6DYX K6EA W6ELT K6EPT W86EUJ W6EXQ W6EY W6FY
K3FKG K3GIH K3GOH W3GOT W3GUS W3HDL/4 K3HTZ W3IDO K3ILC W3IVC W3IVC W3IPP W3JHR W3JRV	W4FPW W4FRO W4GLC W4GLL K4GMR W4GNU W4HOS W4IJK W4IMC W4JJT W4JJU K4JKK WA4JWV	W5AJG W5ARK W5BBV W5BCF WA5BNK W5CAC W5CCF W5CME WA5CTW W5CYE W5DWB W5EJV WA5EQQ	K6CME W6CWR K6DV W6DVD K6DX K6DYX K6EA W6ELT K6EPT WB6EUJ W6EXQ W6EY
K3FKG K3GIH K3GOH W3GOT W3GUS W3HDL/4 K3HTZ W3IDO K3ILC W3IVC W3IVC W3JFP W3JHR W3JRV W3JSA	W4FPW W4FRO W4GLC W4GLL K4GMR W4GNU W4HOS W4IJK W4IJK W4IJT W4JJU K4JKK	W5AJG W5ARK W5BBV W5BCF WA5BNK W5CAC W5CCF W5CME WA5CTW W5CYE W5DWB W5EJV	K6CME W6CWR K6DV W6DVD K6DX K6DYX K6EA W6ELT K6EPT WB6EUJ W6EXQ W6EY W6FB
K3FKG K3GIH K3GOH W3GOT W3GUS W3HDL/4 K3HTZ W3IDO K3ILC W3IVC W3IVC W3IFP W3JHR W3JHR W3JSA W3KDF	W4FPW W4FRO W4GLC W4GLL K4GMR W4GNU W4HOS W4IJK W4IMC W4JJT W4JJU K4JKK WA4JWV W4JXD	W5AJG W5ARK W5BBV W5BCF WA5BNK W5CAC W5CCF W5CME WA5CTW W5CYE W5DWB W5EJV WA5EQQ WA5GDF	K6CME W6CWR K6DV W6DVD K6DX K6DYX K6EA W6ELT K6EPT WB6EUJ W6EXQ W6EY W6FB W6FCX W6FHI
K3FKG K3GIH K3GOH W3GOT W3GUS W3HDL/4 K3HTZ W3IDO K3ILC W3IVC W3IVC W3JFP W3JHR W3JRV W3JSA	W4FPW W4FRO W4GLC W4GLL K4GMR W4GNU W4HOS W4IJK W4IMC W4JJT W4JJU K4JKK WA4JWV	W5AJG W5ARK W5BBV W5BCF WA5BNK W5CAC W5CCF W5CME WA5CTW W5CYE W5DWB W5EJV WA5EQQ	K6CME W6CWR K6DV W6DVD K6DX K6DYX K6EA W6ELT K6EPT WB6EUJ W6EXQ W6EY W6FB

W6FLW K7FDB K8LXJ W9JAM W6FYN W7FIX K8MFO K9JSM W6FYW W7GAQ/6 W8MHP W7GVG W8NEM K9ĬVV W6GGC WŶĮYO K6GK K7GXO W80MY W9KCR W8PHM WA9KII W6GNO W7HNA WB6GRU W7HWD W8QLJ W9KV W6GUQ W7IVL W8QQK K9PEŇ W8QWE K8RFU W6GYH W7IMH K9OMI W7KEG W9RAR K6GZ W6HSA W7KQV W8RLR W9TCV W7KX W8SQU W9TGB WA6IOA K8SUX W6ISO K7KYG W9TVN W6JNX W6JUS W8TLW W9UIN W7LFA K8TWW W7LPM W9VHD W6JXK W8TZO W7MAE K9VPL W6KF W7MCU W8VMP W9VUD W7NUN K8VOR W9WNB WB6KFI WA6KFN W7NWA W8VPC K9YMU K6LKD W7OCX K8VWN W9YNK W8VZ K6MHW K7PBZ W9YPO W7PPC W8WVL W6MMG W9ZEN W8WXO W7OLL W6MSR WAØABO W8ZCW K7OWP WØAGI W6NBX W6NG K7ŠPH W8ZJY WØAGI W7SRN K9AHH WØAH W6NRK W7TIO K9AIR W6OFK WØAIL K7VJU/6 W9ANB K60GE WØAWM W7VM W60IW W9ARM KØBAT W6OSU W7YKG K9ARW WØBES W7ZT W6PCP W9BMI WØBHA W6PLS K7ZVA K9BRL WAØBPE WA8AFQ W9BRY W6OLU WAØBPR K6OXP W8BTW W9BVE WØCCM W6RDK W8CIN W9CHD WAØCCP K8CŎU W9CQH W6RT KØCDG W9CXY WA6ROU W8CYN KØCST K9DCV W6RXT W8DAE WØDFP W8DD W9DGA W6SAW WØECE WB6SCF WA8DDI WA9DHI KØEHO K6SHZ K8DIU W9DNY WØFDI W8DJD K9DUI WØFEO K6SKT W8DOL K6SWL K9DXB KØIDV W6SWR W8DSX W9EGR WØIQC W6TZK WASDYN K9EIV WØIMB WØĬHS WA6USU W8DYY W9EOK WA6UWV K8EON WØĬHY W9ERW WA8FBO WA9-W6VPV WØLGG W6WAW W8FFK FDU/6 WØLOE W6WLI WA8FIC W9FKH WØLOK WA9FMQ WØOKH W6WPF W8FLA W9GCX W9GMR W6WWO W8GMX KØPHD W6WXO W8GTL WØPYX W9GQY WØQQG W6WXX W8HCR K9GSK KØRAL K8HKU K6YKG W6ZLF W8HZA K9GTZ WØRGS W8IIV WA9HDP WØRSZ W6ZPX W7BJY W8JBQ W9HOA WØRZU W8IGI K7BPR W9HUF KØSQB K8KIR W9HUZ WØUSL W7CWN WA8KKD W9HVP W7CZY KØWMD WN8KLK W9IDO W7DIE KØWWI W7EKK WN8KPO K9IEI KØYTA WN8KYF W9IFS WØ-W7ESN W8LEX K9ISP ZWK/6 K7EWZ

K8LOU

W7EXT

K9IZD

IIGO

W5IGY

WB6FTD W6YOK

K8MYF

IN AMATEUR RADIO AFFAIRS SO ABLY

KH6BGW WH6EUI KH6FX KH6AO KH6AX KH6EVU KH6EWA KH6UK KL7DG KL7ETO VE1AJT VE6VV KL7DOD KP4HO VE3EYN VK3KF

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> ATED IN THE DEPARTMENT OF DE-HAS FORCED MANY REVISIONS IN OUR CONCEPTS OF NATIONAL DE-

FENSE PD MODERN TECHNOLOGY WHICH HAS PUSHED US INTO THE SPACE AGE AND SHRUNK OUR WORLD FENSE PD I AM CONFIDENT THAT FORWARD LOOKING PROGRAMS OF THE RADIO AMATEUR SERVICES WILL CONTINUE TO HELP US IMPROVE OUR CAPABILITY AND KNOWLEDGE IN AN ESSENTIAL PART OF OUR DE-FENSE EFFORT PD IN THIS YEAR OF

WILLIAMS, Susan

THE 50TH ANNIVERSARY OF THE FOUNDING OF THE AMERICAN RADIO RELAY LEAGUE I COMMEND ITS OF-FICERS AND MEMBERS FOR THEIR MANY CONTRIBUTIONS TO THE COM-MUNICATIONS ART AND TRUST THAT

THE QUALITY OF THEIR LEADERSHIP

W2ISK

K3LLI

W4KR

W5IDZ

W6FLW

W6YDK W8MBB

K9WEH

RADIO GANG, USS RADIO GANG, USS
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TOMACELLI, Carmine TULP, D. L.
TYSON, Harold G. VANDERBURGT, A. J. WEBB, Gary G. WEST, George W. WILLÍAMS, F. K.

DEMONSTRATED IN THE PAST WILL K5IOB K6GB W6ZVV W8OMY PROSPER AND INCREASE IN THE K5IOC W6GCG WA6ZXT W80WE FUTURE SGD ROBERT S MCNAMARA K5ICO K6ZYU W6GGC K8RII K51GŽ CMM SECRETARY OF DEFENSE WA6GHC K7AEY W8ŘRE W6GYH K7BOG K5KEN K8SOE K1AAA W2IAV K3LTI W4KZF W5KOC K6GZ W7EOU W8SOU WIAXK K2ITU W3MHD W4MGT W5KVM W6HBU W7ESN K8SUX W1BGW K2KAO W3MWV K4MKO W5LDL W7EVW W6HKB W8TLW W2KDE W1EFF K3MYW W4MWL W5LHX K6HWV W7EYF K8TOR W1FGL W2KLD W3NMP WA4NDM W5LPZ WA6IBF W7EYW K8TXT K1GGG W2KOZ W3NNV W4NWK WB6IIV K7FDB K5MBB W8TZO K2KUC W1GPY W3NQA WA4OCY K5MCM W6ITR W7FIX W8UUS W3POZ K1HCH WA2LKF W40FV K5MKA W6IDN W7GAL W8VMP K1IEH W2LKP W3RČI W4OON K5NCW W6IWF W7GVG W8YFX W1IRH W2LVW W3RDF W4OSO W6JXK W5000 K7IVL K8YIF W1KAY K2MWN W3SXL K4PAN W7JMH K7JZT W7KEG W5PZA W6KF K8YIO W2MXB W1KOT W3TUX W4PIF W5QBU W5QFA W5QGU W8ZEP K6KFF W2MXN W1MCG K3TZD K4PME W6LDG W8ZJY/4 W8ZYW W1MEG W2MZB W3UDG W40CE W6LFF W7KXW1MFJ W2OKO W3UKO K40EU K5RBA W7LPM W6LHV W9AZW W2ORX K1NAĞ K3UPR K4OLH W5RCF W6LIP W7MCU W9BGX K1OCS K2OWC W3USA WA4-K5RDP W7MEV WA6LZB K9BPO W10HM K2OWD W3VOX QZG/4 W5TCZ W7PHG K6MDD K9BRL W10MN W2PEE W3VYY W4RNÝ W5THK K6MLR W7PPC K9BSL K100Z WA2QFK W3WAL W4ROB W5TYI. K6MNZ W7PRG W9BWI K10QA W10QC WA2OOI K3WGV W4RWM W5USA WA6MQL K7QWP W9CAV WA2OPW W3WLF K4SCP K5UWE W6MTJ W7SNY WA6NDZ W7SRM W9DGA W10ÙG K2RIF W3WVX WA4TFF K5VHM W9DGV K1PLP WAŹRSE W3WXB K4TKU W5WEI W6NQH W7TMA K9DOF K1SDX K3YGS W2SMX W4TOD W5WUU W6NRK W7TYG K9DPU K1TZO K2SOX W3YPI K4UMK W5YCO W6NRM W7TYR K9DUI W1UGV K2SOL K4ACZ W4USA W5YIJ WA6NUH W7VKO W9DUM K1USN W2SUH W4AIV K4UZI W5YI W7VPH W6OJF W9DVI K1YZG W2TAM W4AIY W4VHX K5YKS W60QI W7YWF W9EEL K2AXM K2ULY WA4AVI W4VUE W6AAQ W6OWP K7ZIR K9EHP WA2BEI K2VAM W4AWY K4WPL WA6AAY WA6OXR W7ZT K9ENU WA2BGI K2VRK W4BCO K4WRN W6AEE W6PDD W7ZXM W9ERW W2BLV K2VBI W4BRH W4WUX WB6AQR K6PDR K8ACC W9FAC W2BVE WA2-W4CBW W4YOA WA8AFQ W9FZC WA8BOT K9GFN K6ARR W6PTN W2BXW WDW W4CCC W4ZXI W6ASH K6QMJ WB2CTU W2WNN K4CHE/6 W4ZZV W6QQM W8BTW WA6QWI W8CJD WA6RBT W8CJT W6AXV W9GMR WA2WWF WA4ECY W5ANH K2CWI K6BAY K9GSK W2DLT K2YOK WA4EHM W5AIG W6BFA K9GTZ WA2DMY WA2YXX K4EHV W5APM W6BHG W6RMM W8CRY WA9HDP W2DXD WA2YZN K4EID W5ARK W6BIK W6SCQ K8CSG W9HOA K2ECO W2ZKY W4EKS K5AVR K6BPI W6SCR K8CTI WA9HRH K2EID W2ZMK W4FI W5AWK W6BVY K6SEZ W8DBR WA9IBB WA2ELE WA2ZVL K4FVO W5BOT W6CAL K6SHZ W8DFA WA9JBL WA2ELK W3BHK W4GOF W5BW K6CCI WA6SJZ WA8DYG WA9KEI WA2EMB W3CA K4GZS K5CIL W6CĞ K6SLĂ W8FAX WA9KJJ K2EQP W3CRO K4HNT WA5CKG W6CQI WB6CUB K6SNA W8FEU K9KVÁ WB2GJG W3DIZ WA4HSM W5CME K6SWL W8FWG K9LGJ K2GOŠ K3EĆF K4IFS WA5CON K6CUD W6SWR WA8FYF K9OIÓ WA2GPF K3ENA W4IMZ W5CYE WB6DBD K6TEH W8GKN W9ÓPI W2GQN W3EOV K4IQV K5DNH W6DOU W8GTL K6TEN K9OXA WA2GSO K3ETV W4ISM W5DVV WB6DRY WA6UAO K8HTS K9PEN WA2GTH K3FMH W4JJT W5DWB WA6DTH W6UXM W8IIV K9QKC K2GYX W4JJŪ K3GBV W5EDZ K6DYX W6VBU W9OKF K8INR K4JJZ K4JKK WA2HDP K3GGO W5EIV WA6DZM W6VHF K8JHA K9ONV W2HHP W3GUS W5FGA W6ECP WA6VVR K8JIC K9ŘUK WA2HIK W3HLD K4JPR K5GCT W6EFMK6WBC WŠKJK K9TKN WB2HPC W3INE K4JXG W4KH W5GJH W6EGZ W6WLI W8KPT W9TVN W2HWH W3JRV W5GMM WB2IGL W3KOE K6EPT W6WPF W8LEX W9UMI K4KHT K5GNE WA2IKT K6FL K3LDD K4KKZ WN5IBY WA6WXI K8LXI W9VDC

HERSHBERGER, David A. OUIST, Lynn The complete text of the 60 words per minute teletypewriter mesage is printed below followed by the call signs or name of the successful participants who submitted perfect copies of the message.

THE COORDINATED EFFORTS OF ARMY CMM NAVY AND AIR FORCE MILITARY AFFILIATE RADIO SYSTEM PAREN MARS PAREN FACILITIES AGAIN AFFORD ME AN OPPORTUNITY TO EXTEND GREETINGS TO ALL AMA-TEUR RADIO OPERATORS THROUGH-OUT THE WORLD ON THIS 15TH ANNUAL OBSERVANCE OF ARMED FORCES DAY PD THE VARIED AND VALUABLE SERVICES WHICH RADIO AMATEURS HAVE PERFORMED IN WAR AND PEACE IN THE COMMUNI-CATIONS AND ELECTRONICS FIELDS ARE WELL KNOWN AND APPRECI- BAKER, Jesse L.

BAWDEN, C. R.

BOWDEN, C. R.

BURTON, D. W. CLEAL, W. R. COLE, Robert E.

CRELÍN, Robert R.

DAVIS, Douglas T.

EDWARDS, Willie H.

GIUNTA, J. GOODMAN, David J.

HARDIN, Dewey J.

HARRIS, Paul S.

HALLOWELL, Jimmy K.

ENGEL, Roberto W.

FARRELLY, Terry

BROWN, Robert G.

(PITTSBURGH)

BELLEROSE, E. J.

BENCINI, Franco L.

BERNRITTER, Steven

BUREAU OF MINES ARC

RTTY

K9WIR WØABA WØBHA WØEHO K9WMP WØAJL KØRTJ K9WOQ WØALW KØCGP KØEII KØEQH WAØCOR KØFLK K9ZBY WØAPF W9ZFA KØAOO KØCZO WØFOW WØDFP WØFŬH KØATZ W9ZGC KØAAR KØBEC KØDOM WØGIN

HERBERT, W. J., Jr.
HOLT, Robert V.
HOYT, Duffy E.
JAMES, Rodney A.
JOHNSON, Donald E.
KENNEDY, C. J. W.
LEE, Ronnie Earl
LIGON, John L. (Mrs.)
LUND, Donald S.
MANCINI, Dante R.
MENADIER, Paul T.
PAPEZ, C. J.
PENNINGTON, Melvin H.
POTTER, Roy A.
PRICE, Jimmie C.
QUIST, Lyn C.
RADIO GANG, USS

TATNALL (DDG-19)

CHARLES R. WARE

RADIO GANG, USS

RADIO GANG, USS

(DD-865)

 WØHHS
 WØLQV
 KØQVM
 KH6AOL

 KØHPQ
 KØLTK
 KØQVN
 KH6AX'

 WØHVA
 KØMAL
 WØRSP
 WH6EUI

 KØHZO
 KØOJQ
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 KL7DTR

 KØIQR
 WØOKH
 WØWWI
 VE3CM

 WØJHS
 KØOPZ
 WØYPT
 VE3IR

 WØJMB
 KØPHD
 KH6AO
 VK3KF

WATCHMAN (AGR-16) RADTELESOCIETY OF SOUTHERN CALIF. RANDOLPH AFB, TEXAS RANEY, H. J. RIZZO, A. S. ROBERTS, Conrad E., Jr. SHAFFER, Robert R. SMITH, Victor E. STEWART, James E. TAYLOR, James P. TUNKS, Richard D. USN & MCRTC, Lawrence, Mass. USS GUADACANAL (LPH7) COMM (Radio) Div. USS SHANGRI-LA VISALLI, Joseph WENDT, Frank E. WYNN, Neal B. YOUNG, Joseph D.

"LETTER STATES, I CLAIM THE FIRST QSL CARD EXCLUSIVELY RTTY"

RADIO TELETYPE CONFIRMATION

To ______Confirming Two-way Teletype Contact _____ 196 ___
Time _____GMT Band _______ % Solid Copy

W4AIS

Printers: Model 15 _____ Converter CV-89 A _____ Receiver SX 117

Transmitter: 100 V ____ Amplifier 4-1000 A ____ Ant: TA-33 ___

George D. Tate - 7 Artillery Rd. - Taylors, S. Carolina

WIDE USES OF TELETYPE EQUIPMENT DESCRIBED IN NEW BROCHURE

"How Teletype equipment can make all your data communications faster, more accurate, less costly" is the title of a new 6-page brochure published by Teletype Corporation.

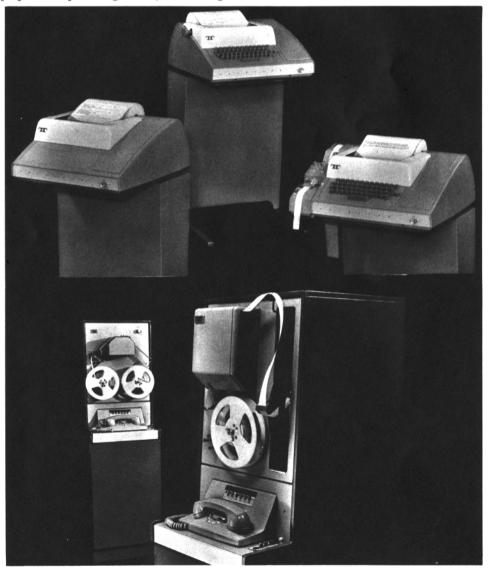
The illustrated brochure is written in non-

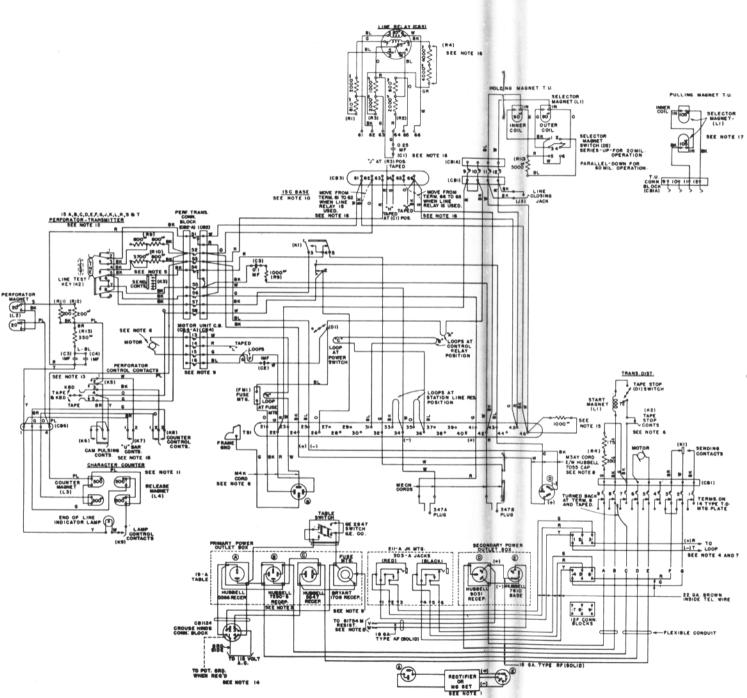
The illustrated brochure is written in nontechnical terms to acquaint users and potential users with new model Teletype equipment and their general applications. By discussing a number of applications, the brochure shows how Teletype systems can be used for such purposes as processing orders, centralizing purchasing of supplies, controlling inventories, and communicating with computers.

The new Teletype models described in the brochure are the standard-duty Model 32 and Model 33 series, the heavy-duty Model 35 series, and the Telespeed 1,050 words-perminute tape-to-tape sets.

Free copies of the brochure are available

Free copies of the brochure are available upon request. Write to: Teletype Corporation, Dept. SP-41, 5555 Touhy Ave., Skokie, Ill. 60078.





BELL SYSTEM PRACTICES TELETYPEWRITER STATION

SECTION P90.954

LESLIE JOHNSON, WA9HDG

168th & Kilpatrick Aves. Tinley Park, III. 60477

NOTES

- (A) WHEN A M-G SET IS USED, AN BITS-4M RESISTOR UNIT IS ALSO REQUIRED.
 (B) FOR VOLTAGE SETTINGS SEE 88P P31-105 FOR RECTIFIERS;
 88P P31-105 FOR M-G SETS.
 WHEN AN BITS-4 M RESISTOR UNIT IS NOT USED, TAPE THE "V" AND "M" LEADS.
- 2. WHEN AN 81/9- BE RESISTED OUT IS NOT USED, TAPE THE "Y AND" "ELEGIS.

 ORDERING HORDMATION FOR TABLE ACCESSORIES CAN SE OSTAMBE FROM
 ORAWING ED SIZE!-OIZ.

 FOR DUPLES OPERATION SEE APPROPRIATE SEP SECTIONS AS REQUIRED.

 5. STRAP THE 3700 OHM PORTION OF (R ID) FOR SO BILL OPERATION, SEE
 SEP PS.0-12 PLAN M.Z.OS.
- 6. FOR WIRING DIAGRAMS OF COMPONENT UNITS, REFER TO BEP SECTIONS AS

14	TRANS DIST.	P36.331	IDA TABLE	
15	BASE	P 36-301		BELL LAB DWG
15	MOTOR UNIT	P36.301		80-64052-81
215	RELAY	P31-161		
15	TYPING UNIT	P36.301		
15	PERF. TRANS.	P38.322		
	MOTOR - GEN. SET	P31.105		
	RECTIFIERS	P31.101		

- 7. PROVIDE WAVE SHAPE SETS AND SWITCHBOARDS AS REQUIRED. SEE BSP SCCTIONS PIS-001, P30-820, P80-101, ARE8-502 AND AB84-026. SEE BSP P30-001 P01 COLOR CODE OF OLDER TYPE CORDS.

PROVIDER WAYE SHAPE SET AND SWITCHHOLDERS AS REQUIRED. SEE SEP

3. SEE SEP P30.401 FOR COLOR CODE OF CLORE TYPE COMOS.

3. FOR CAPACITY OF FUSTRONS OR FUSTATS REQUIRED, COMOS.

3. FOR CAPACITY OF FUSTRONS OR FUSTATS REQUIRED, SEE SEP P31.15E; FOR CAPACITY OF FUSES REQUIRED, SEE SEP P31.15I.

10. A 15A OR 13B SABE MAY BE USED INSTEAD OF A 15C. SEE SECTION P90.80S.

11. FOR OPERATION OF COMMARCIFER COUNTER SEE SEP ASS.1.162.

12. NO. 13M, N AND P PERFORATORS MAY ALSO SE USED, NOWEVER, THEY HAVE A SOMEWART DIFFERENT WINNING ARRANGEMENT, PRIMARILY IN THE CHARACTER COUNTER. SEE SEP P30.3EE.

3. REFSOARD CONTROL OPERATING LEVER FUNCTIONS

REYBOARD POSITION - PERF. CONTROL CONTS. ALL OPEN, FUNCH MAGNET THEY SEED THE COMPANY OF THE THEY SEED THE CAM PULSING CONTS. ALL OPEN, FUNCH MAGNET THEY SEED THEY S

PERF-TRANS OF LATER MANUFACTURE ARE EQUIPPED WITH THE 112570 M CAM PULSING CONTACTS HAVING ONLY ONE SET OF CONTACT SPRINGS OPERATED FROM CAM NO. 3.

> 19 TYPE TELETYPEWRITER TYPICAL ARRANGEMENT
> IIS VOLT
> A.C. POWER
> SINGLE OPERATION WITH ISC BASE
> IBA TABLE

COLLINS RADIO COMPANY CEDAR RAPIDS DIVISION



Cedar Rapids, Iowa 52406 telephone: area code 319, 365-8411 cable: COLINRAD

July 23, 1964

Mr. Merrill Swan RTTY, Inc. 372 Warren Way Arcadia, California 91007

Dear Merrill:

Word came to us the other day from an RTTY enthusiast that he had contacted you and you apparently did not yet have information to key the 32V-3.

Enclosed are a couple of circuits, one of which employs a 6AL5 Tube and the other a pair of 1N34 diodes which have been sent in to us by customers who claim they work adequately.

Inquiries about RTTY seem to be increasing and I refer each to you; I hope it has helped the circulation of your magazine. If we can assist you at any time, please feel free to get in touch with us.

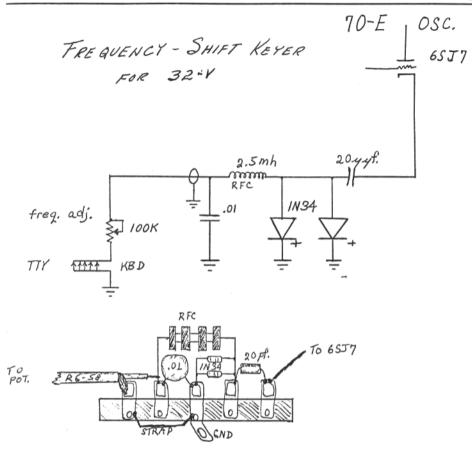
Very truly yours,

Doug Horner - WOHUF Service Engineer

Amateur Radio Sales

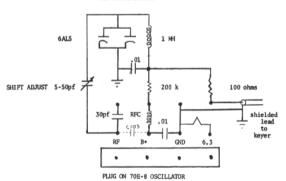
km

Enclosure



FSK ADAPTER UNIT FOR COLLINS 310 AND

32V TRANSMITTERS



The Collins 310 and 32Y Transmitters use the type 70E-8 oscillator. The 6MLS socket can be mounted in the top of the adapter which plugs into the oscillator. While making the conversion remove the condenser between the RF and 8* terminals(ClOS). The frame of the teletype machine should be well grounded.

SURPLUS BAND PASS FILTERS

Recently several of these fine filters have appeared in various places. The circuit shown below provides a means of incorporating them in your NEW TU design. A few details are given below, and will guide those who have been fortunate enough to obtain a pair of these fine filters. They are identified by numbers stamped on the cover. 673-0397-00 thru 673-0920-00, and were manufactured for the Collins Radio Company.

GENERAL REQUIREMENTS

This specification covers a series of telegraph tone filters (receive) and their associated discriminator networks hermetically sealed in a common package.

ELECTRICAL CHARACTERISTICS Filter Section

Center Frequency: The center frequency as listed in the table above by definition, is the 0 DB reference. The difference in attenuation at the frequencies 30 CPS above and 30 CPS below the center frequencies shall be less than 2 DB.

Power Level: -45 DBM to 0 DBM input. Insertion Loss: 11 DB maximum at center frequency.

Frequency Response:

- 35 CPS either side of center frequency—no more than 3 DB down.
- 70 CPS either side of center frequency—down at least 20 DB.
- 90 CPS either side of center frequency—down at least 45 DB.

At frequencies greater than 90 CPS either side of center frequency—down at least 45 DB. The filters shall meet this frequency response when operated individually or

The following is an up-to-date roster of the WAC-RTTY awards in the order they were issued:

1. VE7KX 21. W6FYM 2. W6CG 22. W1BGW 23. ZS6UR 3. K60WQ 4. W6AEE 24. VK3KF 5. W7LPM 25. VE4BJ 26. WØPHM/4 6. W2RUI 27. I1RIF 7. W2JAV 8. W6TPI 28. DL6EO 9. G3CQĚ 29. WØFOW W6LIP 30. W6UGA 11. W7ESN 31. W9HJV 32. W5CME 12. W8JIN 33. K8DKC 13. K3GIF 34. W3DJZ 14. W5BGP 15. WØNFA 35. WB2CVN 16. W8UUS 36. W6JOX 37. VK4RQ 17. TG9AD 38. DL1VŘ 18. KR6MF 39. DL3IR 19. K4JXG 20. W7FEN 40. W5SH

with any combination of filter inputs connected in parallel.

Impedance:

Input: 600 ohms nominal at center freq. Output: 600 ohms.

The performance of the Band-Pass Filters shall meet the requirements defined herein when operating between a 600 ohm source and a 600 ohm load. The filters shall meet the requirements of this specification when the filters are operated in parallel. The input impedance shall be nominally 600 ohms in band and of large enough value out of band so as to have neglible effect on all other filters when inputs are connected in parallel.

Discriminator Section: The discriminator shall be as shown in the schematic with the phasing as shown.

Drive: The drive to the primary shall be 9 V RMS minimum and 14 V RMS maximum. The driving impedance is non-linear, varying from approximately 1500 ohms to open-circuit.

Dynamic Characteristics: With a frequency shift of input signal of ± 30 CPS from center frequency, shifted with a symetrical square wave of 30 CPS, the discriminator output shall be 0.7 volts peak to peak minimum. When operated in the test circuit shown.

Shielding: The filter network shall be isolated from the discriminator to the following extent. With the filter input and output terminated in 600 ohms, and signal of 14 volts BMS at +30 CPS and -30 CPS from center frequency applied to the discriminator input, any signal introduced into the filter shall be less than -60 DBM.

Subscription Rate \$3.00 Per Year

RTTY is the Official Publication

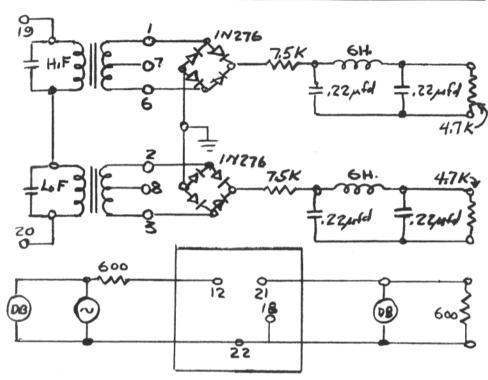
of the

RTTY Society of Southern California

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For "RTTY" Information: W6DEO W6CG W6TPJ W6AEE



ANNUAL RTTY MEETING AT W6AEE's HOME, AUGUST 8, 1964



FOURTH ANNUAL WORLD-WIDE RTTY SWEEPSTAKES

THIS IS A COMPETITION BETWEEN ALL STATIONS THROUGHOUT THE WORLD TO DETERMINE THEIR ABILITY TO EXCHANGE MESSAGES VIA TWO-WAY RADIO TELEPRINTER.

- TEST PERIOD: 0200 GMT Oct. 17th to 0200 GMT Oct. 19th, 1964.
- BANDS: This test will be conducted in the 3.5, 7.0, 14.0, 21.0, and 28.0 MCS amateur bands.

DX-RTTY

Bud Schultz, W6CG 5226 N. Willmonte Ave., Temple City, Calif. 91780

Greetings:

My family doctor is a very understanding gentleman but disgustingly unsympathetic about the importance of RTTY in my life. As a result-he took me out of circulation for the past five weeks and I find myself starting this column from scratch. If you're willing to take potluck with me, let's get started on the mail bag. For openers here's the monthly report from ED, K3GIF, which was delivered personally by Irv, K8DKC. Ed says that UL1AA understands that there is an active RTTY station operating out of Bolivia (CP) and Horacio is making a sked with the fellow thru another CP ham. No call letters were mentioned but will try to have more on this one for next month's blast. Ed also reports that due to Horacio's efforts PY2BCD of San Paulo is back on RTTY with a fine S-9 signal. Those of you who missed out on PY1KU and PY2BCD a couple of years ago should be on the watch for Eduardo on 20 meters around 0100 GMT. Jean, FG7XT, reports printing a weak signal around midnight on 20 signing "VO8" so was unable to identify the station as to location. This is in the Mauritius-Chagos area and should be worth digging for. Europeans have recently been hearing ZS6ARL from Johannesburg and F8KI managed a OSO with him. K3GIF worked Claude, F2FO for a new one recently. Claude runs a homebrew rig with an 811A in the final and has a good signal into the States. Other new European stations now active include G3HKR and IIAHN. Sergio, IIAHN, runs 500 Watts to the final and comes thru like gangbusters! One day recently I left the printer running unattended on 14095 for about an hour around 1900 GMT. When I returned to check it out I discovered I had printed an almost letterperfect QSO between John, G3HKR, and Rene, DL3IR!! Hope these kind of conditions continue out here on the Coast thru the Sweepstakes contest.

Jean, FG7XT, recently spent several days visiting the shack of K3GIF and as a result I am happy to be able to report the following DX scoop. Jean is planning a DXpedition to several of the Islands in the Caribbean to start about the first of September. He will operate from St. Martin, St. Bartholomew, Aruba, possibly Curacao and several other smaller

islands between Puerto Rico and the YV Coast. He has ordered a tiny Siemens tape printer through Herb, DL1VR, and secured a small TU from Frank, W3PYW, for the expedition. Jean will use a KWM-2 and possibly a small linear and get his power from a 1KW kicker.. Jean will do his Island hopping in a Piper Apache owned by another ham in FG7 land. The beam and rotator have already been flown to St. Martin Island. It will take a couple of trips each time to get the beam, etc. from island to island, but Jean is confident he can pull the deal off in good shape. To the best of my knowledge this is the first "RTTY only" DXpedition in history and surely merits the moral support of all of us so start watching for Jean about the time this issue reaches your mailbox.

Just received a note from Arnold, KW6DS, telling of his trip to the Worlds Fair. He says he is getting ready for the contest in October and is back on the air from Wake Island every Sunday. Merrill, W6AEE, reports that the "down under" gang are still showing up quite regularly every weekend. Merrill says that VK3KF, ZL1WB, VK4RQ have been joined by Alec, ZL3HJ, who is apparently back in operation from the same old stand that he left many months ago.

I am going to use some of the space this month to publish the WAC-RTTY Award list that I have promised to do for the past six months! Hope it will goad some more of you to get your confirmations in to this office so we can add your call to the honor roll. We always do a big business in the WAC department in the weeks following the Sweepstakes Contest so we are already tooled up for the big push. Send your cards either directly to me or to the RTTY editor and they will be returned as soon as they are accredited by the committee.

I am leaving on an extended vacation in the next few days so am going to ask Ed, K3GIF, to handle the DX chores for the next issue. Please help out by sending your DX news to him for the next month. Thanks a million!! Hope to see all of you back here again in a few weeks.

Cheers & 73

Bud, W6CG

... (continued)

FOR SALE: Model 15, and Model 19 complete. Also 14 TD and Typing reperf. FRXD Write for information. Free: reproductions of 19 circuit diagrams, send stamped envelope. WA9HDG, Orchard Hill Farm, Tinley Park, Ill. 60477.

FOR SALE: Collins 51J4 receiver like new, \$800. First check or money order. Gonset G-50, \$175. Like new Model 14 KBD reperf, \$60. Excellent condx. KP4GN, P.O. Box 532, Guayama, Puerto Rico 00655.

FOR SALE: RTTYers Attention! 88 and 44 mhy toroids \$1.75 for 5. Send for list of other RTTY gear. W6VPC, 1067 Mandana Blvd., Oakland, Calif. 94610.

FOR SALE: Model 15 Teletype with table, excellent condx. \$80.00. Will accept TT63A Regenerator repeater on trade in. W10HF, Honeyhill Road, Norwalk,

FOR SALE: Model 26A Type keyboard, K3GYS, 1610 South Iseminger Street, Philadelphia, Pa. 19148.

WANTED: Back issues of the RTTY Bulletin as follows: Vol. One, Numbers 2, 4, 5, 8, 11, 12. Vol. Two, Numbers 1, 5. W2TAM, 140 Summit Avenue, West Trenton, N. J. 08628.

WANTED: Back issues of RTTY as follows: October 1956, May 1957, July 1957, June, August, November 1960. January 1957, October 1954, July 1955. W9IQX, P. O. Box 46, Northbrook, Illinois.

WANTED: Page printer and AFSK TU unit complete with polar relay, loop supply and meters. Both must be in excellent condition. WNOIPL, 3915 Sixth Ave., Des Moines, Iowa 50313.

FOR SALE: Clearing out sale AN/FGC-1 Radioteletype Converters \$50.00 Used. New with spare parts \$125.00. ALA-2 Panadapters with free conversion instructions \$29.95. 19" x 72" Open racks and enclosed racks, new and used, as low as \$12.50. Write for free list. GULF ELECTRO SALES, INC., 7031 Burkett, Houston, Texas 77021.

Burkett, Houston, Texas 77021.

14 Non typing complete, \$49.95, less base and cover \$29.95. 14 Typing reperf with keyboard, complete \$75.00.

FRXD3 reperf and TD combo non-typing \$65.00. 15 with keyboard, complete \$79.50. less keyboard \$69.50. TD complete \$49.50. 19 complete with table and TD \$149.50. 15 metal tables \$15.00. TS383A/GG Distortion test set \$250.90. All above machines have communications keyboards and synch motors and are 60 wpm for Ham use. These units sold untested and apparently complete. Add 35 percent for complete overhaul, cleaning and adjustment, for full guarantee. Columbia Electronic Sales, Inc., 4365 W. Pico St., Los Angeles 90019. Telephone WE. 8-3731.

WANTED: Line Feed function arm for model 26 Teletype, part number 90463. Also need cover and tape reel for 14 typing reperf. W8SDZ, 4626 Rambo Lane, Toledo, Ohio 43623.

WANTED: Tuned filter from BC-733, ready for use in RTTY. W6NRY, 4618 Center, Baldwin Park, Calif. Phone 337-3805.

WANTED: Model 14 tape reel, cover and bracket. W6NSH, 10245 Faywood Ave., Bellflower, Calif.

FOR SALE: Regency Transistor converter, 80-10 meters, also mobile antenna for 80-40-20 meter. WB6BZC, 772 W. Tenth, San Bernardino, Calif.

WANTED: R-390A/URR Receiver, cash or trade, TTY 14, 15, 19, 28. W6YJG, 1302 Pine Street, Santa Monica, Calif. FOR SALE: Model 15 KSR with table, pwr supply, sync motor and comm type, \$60.00; Model 14 keyboard-typing reperf with comm type and sync motor, \$40.00; Model 14 TD with sync motor, \$45.00; 2 Model 14 TD with sync motor, \$35.00; 2 Model 14 kybd strip printers with table, financial type (fractions), and sync motor, \$25.00 each. 1 model 15 keyboard with financial keytops, \$5. 1 model 14 typing reperf base with reel, \$5. All machines are 60 speed, but 75 speed gears are included with 15-KSR and 14 reperf. Gerald Murphy, 2547 18th Avenue, San Francisco, Calif. 94116.

FOR SALE: Model 15 Teletypewriter, 60 cycle motor, table, cover, for \$110.00. W8DFA, 29 Vernon Ave., Elm Grove, Wheeling, W. Va.

FOR SALE: Model 15, with model 19 kybd, perforator, etc. Excellent cover, DC pwr supply, needs capacitors, instruction manual, printed circuit 5 Transistor converter and monitor unit all on one aluminum chassis, monitor uses 3BP1, needs some work, all schematics included. First \$100.00 F.O.B. J. E. Flick, 2314 Rittenhouse Street. W. Hyattsville, Maryland 20782.

FOR SALE: Tech manuals, TM 11-2225, TT-76, \$3.00. TM - 11 - 5815 - 200 AN/FGC 20X, \$3.00. TM - 11 - 5815 - 206 AN/FGC 10X, \$3.00. TM-11-5815-206 AN/FGC 10X \$10.00. Three 60 cps TTY 10X \$10.00. Three 60 cps TTY 10X \$10.00. Three 60 cps TTY 10X \$10.00. Three 50 each. Three junction 10X \$10.00. Three 50X \$10.00. Three 5

FOR SALE: 15 printer, 60 wpm, sync w/19 kybd, \$100.00; 15 printer, 60 wpm sync, extra clean, \$85.00; 15 printer as above w/auto LF/CR, \$100.00; 14TD, 60 wpm, sync, \$65.00 w/tape-out, tight tape; 14 TD as above BRAND NEW, \$95.00; 60 wpm Teletype Test tape (magnetic); RY's, Foxes, total kbd, tones 2125-2975, both low space and low mark (upside down) 3.75" IPS 15 minutes, \$2.00; 88 mhy toroids 50¢ each, 5/2.00. K5BQA, 11040 Creekmere, Dallas, Texas 75218.

FOR SALE: Two model 15 machines, aluminum, 30-60 mil type, machines like new with HAM keytops and palletts. Heathkit six meter sideband rig and linear, expertly wired, works FB. 14 typing reperf w/end of line light, \$75. W6OJF, 9337 Gotham, Downey, California.

FOR SALE: Model 28 Teletypewriter, sending-receiving 60 wpm, capable of 75 and 100 wpm wire or radio circuits. Page printer automatic typer, console and sync motor, not tested, used \$250.00. Atlantic Surplus Sales, 181 Sackett Street, Brooklyn, N. Y. 11231.

NOTE: Sorry to trie so much space, but it's hard to not print the above info, when it may help get someone started with RTTY.—Ed.

CORRECTION

Apologies are in order to BEN F. WAPLE, Secretary of Federal Communications Commission for the typographical error mis-spelling his name