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2

SCORE A MILESTONE: TELEPRINTER SIGNALS FROM SPACE

Project SCORE (Signal Communications by Orbiting Relay Equipment) produced the first teleprinter signals from space. The first US Air Force satellite attempt placed the 8800-lb 185-ft Atlas ICBM into orbit. The liquid-fueled, 359,000-lb thrust, radio-inertial guided missile was placed into orbit from Cape Canaveral, Fla, and orbited every 101 minutes at 17,000 mph at altitudes between 114 and 925 miles. This world's first space radio relay station functioned as a link in an experimental global communications system. About 3:29 pm EST Dec 20 1958 the California ground station at Prado Dam Basin, Corona, triggered the satellite, which then transmitted the pre-recorded voice of the president. Corona then sent up an RTTY signal, which was relayed directly and received at the listening post station at Ft Sam Houston, Texas clearly with only two short fades. Other stations in Arizona and Georgia received the same signals. The message was:

THIS IS THE USASRDL (U. S. ARMY SIGNAL RESEARCH AND DEVELOPMENT LABORATORY) SATELLITE TRACKING STATION AT PRADO DAM BASIN, CORONA, CALIF., TRANSMITTING TO THE SATELLITE. THIS IS THE PRESIDENT OF THE UNITED STATES SPEAKING. THROUGH THE MARVELS OF SCIENTIFIC ADVANCE, MY VOICE IS COMING TO YOU FROM A SATELLITE TRAVELING IN OUTER SPACE. MY MESSAGE IS A SIMPLE ONE. THROUGH THIS UNIQUE MEANS I CONVEY TO YOU AND TO ALL MANKIND AMERICA'S WISH FOR PEACE ON EARTH AND GOOD WILL TOWARD MEN EVERYWHERE.

On the next pass (the 28th) the Corona station retransmitted the message to the satellite, which stored the message on magnetic tape about 5 pm. At 5:10 pm, as the satellite traveled east, the Signal Corps station at Ft Sam Houston directed the satellite to broadcast back to earth what it had received over California. The president's words were received loud and clear both at Ft Sam Houston and at the station at Ft Stewart near Savannah, Ga. On the 29th pass the same experiment was repeated, the California station sending a 4-minute message at 6:55. The same station then commanded the satellite to repeat the message, which was heard by the Texas and Ft Huachuca, Arizona stations, and partially by the Georgia station. The communications equipment was developed for about \$200,000 by the US Army Signal Research and Development Laboratory, Ft Monmouth, NJ. Two complete 35-lb communications packages each contained a 1-3/8x5" beacon transmitter (107.938 or 107.97 Mc), a 6-1/4x4-1/4x4-1/2" communications transmitter (132.435 or 132.905 Mc), a 3-1/2x4-1/2xl" receiver, a magnetic tape recorder, a 4-5/8x3-7/8x1-3/4" control unit, and a 4-1/8x9-3/4x2" dc-dc converter. Batteries were zinc-silver. Radio Frequency Laboratories, Inc, Boonton, NJ developed the ground-based telegraph multiplex equipment.

W2QFR Dick in Mt Vernon NY has a W2PAT TU modified with 6Y6 driving the magnet, autocarriage return, and is on 3620. Dick recently acquired a National FS VHF receiver and may soon be heard on two meters.

To be here in New York City and have the opportunity to compile this 52nd issue of A.R.T.S. is indeed a pleasure and a privilege for me. My travels across this vast nation have brought me a wealth of knowledge of its people and the "American way-of-life." In particular I have had a remarkable opportunity to meet a cross-section of the community, with whom I have much in common--namely those ardent amateur radioteletype enthusiasts hailing from all walks of life, regardless of colour, creed or public-standing, Model 12's or 28's. Wherever I have ventured, much has been done to make my visit one that I will long remember. It has been an honour to associate with you, & may the friendships I have made long endure. Amateur radioteletypists have joined with the fraternity in cementing international friendship, and goodwill. May these chains never become rusty. "Lebe der Fernschreiber!"
 ---73! de ZL1WB, Bruce, SCRTS, NCARTS, RATS, ARTS, NZART

FEDERATED AMATEUR RADIOTELETYPE SOCIETIES

Twin City "RATS" passed a motion at the April meeting to co-operate with other regional societies toward closer national unity. Boyd Phelps WoBP was appointed to further this end. Meeting attendance was nearly thirty. Visitor at the meeting Bill Armstrong WoRVH wound up taking home BeeP's loaner machine and a TU borrowed from George WoHFU. ---WoBP Broadcast.

FOURTH ANNUAL AMATEUR RTTY BANQUET, NEW YORK, MARCH 24, 1958

The Fourth Annual RTTY Banquet is now history. This occasion will linger forever in the minds of those who were able to attend as a truly great example of amateur friendship, and much credit is due to Clay Cool, and his planning committee who undertook the responsibility to put the "show on the road," and more so to Alice Cool (xyl) upon whom descended the enormous task of ensuring that the program was carried out successfully. Sadly, Clay was unable to be present as family bereavement at this time made it necessary for him to depart for Michigan just 24 hours before the "appointed hour". . . "Eleventh hour" alterations also deprived Merrill and Margaret W6AEE, and Lou VE2ATC from attending. In all, 45 enthusiastic RTTY amateurs converged upon the "Aurora" restaurant, at the "countdown." Of these, 22 brave soles descended en masse on the Cool residence to partake of cocktails, and acquaint themselves with the honored guest, Bruce ZL1WB. ARTS bulletin 50/51 devoted in its entirety to commemorating this auspicious occasion, "ABC's of Teletype" and Teletype rulers (donated by the Teletype Corporation of Chicago) were issued to those present (also some RTTY Callbooks sent by Merrill W6AEE for last years affair, but that arrived a day late!). Following the feast BeeP WoBP introduced Alice Cool, who spoke briefly on behalf of Clay, in his absence, and took immense pleasure in presenting the guest-of-honor from down under, Bruce ZL1WB, to the boys. Bruce's speech was well received, althowe cannot reproduce it here (as we do not have the space, nor a copy of the speech). . . BeeP then took the floor, and subsequently the group transferred to

ON THE MARKET - - - - -

Model 15 teleprinters are now available to amateurs for about \$100 in the east and in the west. See notices in this issue.

TOROIDS: An additional source of clean, uncased 88 mh toroids has been located in San Francisco, as advertised on page 52-

BOOK: A Selection of Early Amateur Radioteletype RTTY Bulletins 56 pages, 10 photographs, yours for 2 bux! Sending \$2 to W2BFD requesting ARTT-6078 will bring you the first impressively bound reproductions of some 25 early amateur bulletins, distributed by W2BFD over the period 1946-1951. This manual contains a host of interesting information, which makes it an attractive purchase for any active RTTYer regardless of "political hogwash." No ham-shack RTTY library would be complete without this. I recommend this publication impartially to you all. ---ZLLWB

ARTS 50 / 51: This first ARTS special double issue came out quite impressive, despite the ratrace of rushing it through the mill and the printer in time for the guests at the NYC RTTY March dinner. It runs 56 pages (counting the specially designed blue cover). If you haven't received yours, price is 50¢ to members, \$1.50 to others. The #51 portion of this double issue is a 4-page insert that is an index of ARTS numbers 37 thru 48, and some other useful information---nets, RTTY OBS, annual RTTY calendar. This 4-page insert may be removed from the double issue for binding or filing with numbers 37 thru 48, or additional copies are available for 25¢ to members, 75¢ to non-members. ARTS 50/51 has 17 (SEVENTEEN) photographs and 11 (ELEVEN) diagrams. Dope on the NYC RTTY March dinner, those RTTYers attending the dinner, Sputnik Snorters, Armed Forces Day, Polar relay story, theory: detection of FM signals, meteor trail RTTY, 5th anniversary SS, story with specs and pics of the 12-pound Teleprinter MITE is included.

BOUND COPIES OF ARTS bulletins #37 through #48, with index (ARTS 51) are expected to be available shortly, if demand warrants. So send in a postal card if you're interested. Cost is expected to be about \$4, but send no money now, yet get in your reservation so we will know how many to order.

THE RANCH-SIZED APARTMENT OF Mahlon R. Fisher, where technical papers and demonstrations were presented, including additional refreshments. . . A detailed report from the committee formed to devise a satisfactory alternative to the existing intolerable circumstances surrounding the transfer of equipment from the telephone companies to the amateurs was read, and accepted (details not presently available). . . Phil W2JAV then transfixed his fellow RTTYers with his ever-fascinating demonstrations, and explanations of amateur ingenuity exploiting the field of radioteletype. This was particularly well presented, and equally so accepted by the gang, and it is our fervent hope that more of the RTTY fraternity will follow Phil's example---RTTYers build. An added feature of attraction was the "M.I.T.E." (mity nice!) teleprinter on display by the Teleprinter Corporation. Ralph
ARTS 52-5

Hirsch spared neither time nor effort in acquainting the fellows with these machines, and their operating techniques (See ARTS 50 for printed details). The demand far exceeded the supply. Unfortunately, it may be all of a year before the "M.I.T.E." becomes available on the amateur market---but the lads were unanimous: We can wait! . . . Walt Grosselfinger W2ATQ presented a technical paper on equipment development, suitably illustrated with slides of equipment he discussed. A most interesting and informative address. . . Thereafter random ragchewing was the concluding feature of a well-conceived, and executed, Fourth Annual RTTY Banquet, held in New York. To all those, without exception, who attended to make this function the undoubted success it was, may we say "Thankyou." Our special thanks to Mahlon Fisher for the use of his "Ranchhouse," to Phil, Walt, Beep for his jug at W2EBZ, and lastly tho not least, Ralph and the Teleprinter Corporation for their part in the program. . . To those of you who were not able to be present this time, may we see you next year!

Attendance during cocktail hour at the home of host W2EBZ, prior to the annual RTTY banquet in New York, found the following quenching (apologies to the Type B emission enthusiasts) their thirst and masticating the fabric at ARTS: WoBP (dry bones!) W3FU K2HNM W2RTW WoHZR W3PYW W2ATQ W2PBG W8LZU W3VU W2TKO KL7OOT (thawing out!) W2JAV W6BEX W2KXT W2PTD W1OUG W1TZX W2AVI K2TEA ZL1WB E.&O.E.

The following attended the banquet: W1AFN W1BGW W1FGL W1IYU W1OUG W1TZX W1YYZ W2ATQ W2AVI Alice Cool K2GVQ K8HHH K2HNM W2IRT W2JAV W2KDW W2KXT W2PTD W2QGH W2RTW K2SKK/ W1ZCA W2TAM K2TEA W2TKO W2UAE K2UEU W2ZKV Ralph Hirsh Mahlon Fisher Mary Lindsay W3FMC W3FU W3PLG W3PYW W3VU W6BEX W8LZU W9NOE WoBP WoEZK WoBYE WoHZR ZL1WB KL7OOT/ WoOOT W2PBG E.&O.E. (PS: Last minute affairs kept K2OBJ away.)

Pre-Banquet Luncheon: A small group of leaders in the field of amateur radioteletype gathered in a suite of the Manhattan Hotel for a luncheon and discussion on the current trend of machines procurements. Host of the group was El Swanson W2PEE. Look for further data at a later date.

Thumbnail biographies and many station photos of those attending the luncheon and banquet are printed in ARTS 50/51, which was printed to commemorate the event.

ULTRA-NARROW SHIFT: Beep Phelps WoBP has obtained momentary reception across the room with a shift of 3/8 cycle! Hasn't the law been revised to say that we can send infinite information in zero time using zero bandwidth if noise is also zero?

ARTS GROWS. . . Circulation of this ARTS bulletin has recently D O U B L E D in the state of Minnesota, due to the kind efforts of WoBP and KoAKG. Now, if we can double circulation in the other 47 states, we will be running in the black (its red now!)

SOME NOTES ON RTTY

RADIOTELETYPE operation on the amateur bands is a rapidly growing activity, and the RTTY enthusiasts constantly are seeking new methods of improving their techniques. With the advent of S.S.B. transmitters with their required high degree of frequency stability, this group began to explore methods of adapting this equipment to their specialty.

AT FIRST, the simplest scheme was to feed an audio frequency shift signal into the audio system. If the input audio signals are perfect sine waves, and the transmitter audio amplifier and balanced modulators free of distortion, the r.f. output signal, under S.S.B. operation, would be a clean C.W. carrier shifted in accordance with the audio input keying frequency. However, any harmonic distortion present from the A.F.S.K. source will appear as spurious C.W. signals. Distortion in the transmitter proper will also appear as spurious C.W. signals. To eliminate these problems, some owners of commercial transmitters have added diode frequency shifters to the V.F.O. of the S.S.B. transmitter. While these diode shifters work, they may cause frequency drift in the V.F.O. Furthermore, the frequency shift will not be constant as the V.F.O. is changed in frequency.

APREFERABLE system is to shift the frequency of a quartz crystal heterodyning oscillator in the S.S.B. transmitter. If the proper oscillator is chosen, the shift will be constant, regardless of the final output frequency of the transmitter. In most cases spurious signals will no longer be a problem. In addition, the excellent frequency stability of the V.F.O. will not be impaired.

IN HALLICRAFTERS HT-32 transmitters the side band inverting crystal controlled oscillators can be easily revised for this arrangement by adding a small capacitor across the highest frequency crystal to move it 850 C.P.S. After modification, the removal of a plug-in adapter restores the HT-32 to its normal operation for S.S.B., A.M. or C.W.

AFIELD SERVICE bulletin describing this modification in detail is being prepared and will be available upon request.

— FRITZ FRANKE

Buel Halligan Jr. W. J. Healyan W9AC for **hallicrafters**

MODEL 15 PRINTERS \$100

WØBP, Oct 26: A large number of Model 15 printers have just been released from the Pacific Telephone Co. They will be distributed to amateurs similar to the successful plan followed many years in Calif on the Model 26. No hocus-pocus, all complete with base, typing unit keyboard, cover, sync motor, and table. All believed in good condition as taken out of subscriber loop. Price is \$90 plus \$10 crating charges, COD for trucking. Make checks payable to RTTY, Inc, c/o W6AEE 372 West Warren Way, Arcadia, Calif. The West Coast is again to be congratulated on this forward step in printer distribution, so necessary to make our facet of amateur radio expand. W7HRC Harold Wade advises that about 12 Model 26 are available in Seattle area. Price is \$50 plus \$8.50 crating charge. W7HRC waiver form required. Pacific Telephone policy on printers returned by subscribers is: 1st, reassign to other subscribers, 2nd, reuse in the region or area, 3rd make available to local ham societies under contract assuring the machines will never

be used in commercial competition, 4th, smash up for scrap metal. Part 3 of the Pacific program has been skipped in other parts of the country and thousands of usable machines have come under the hammer. Such a destruction is a considerable loss. Amateur and experimental use of teleprinters can never grow like SSB until an even flow of machines reasonably priced from several sources is available. The day is coming when huge volume of emergency traffic can be handled by amateur radioprinter. One of the best reasons for amateur radio is its self training of thousands of people for possible future war service in knowing what's behind the buttons. We are sure AT&T wants us to win the next war, but a little more co-operation in making castoff machines available would be a great help in the amateur selftraining field.

RTTY CALENDAR

RTTY SS, 6th anniversary of FSK on lower frequencies for amateurs. 30 hours, 2300Z 13 Feb 59 to 0500Z 15 Feb 59 (Friday eve and Saturday). RTTY, Inc, 372 West Warren Way, Arcadia, Calif.

88 mhy

TOROIDS

clean uncased

dollar each five, four dollars

8

DaPaul 101 STARVIEW WAY S.F. CALIF

Q T H W 2 R T T Y A M A T E U R S

K2AAA/W2UOL Don HR*
Donald J. S. Merten
166-52 23rd Ave
Flushing, L I, N Y

W2AEE
Columbia U ARC
Box 32
Engineering Bldg
Columbia U
New York 27, N Y

K2AEX/8
H. Russell Boone
11311 Mercedes
Detroit 39, Mich

W2AIP
Arthur M. Kay
Trustee of W2AEE

W2ALR Larry HR*
Lawrence S. Lewis
196 Locust St
Lockport, N Y

W2ANB John HR*
John F. Longley
1623 New Scotland Rd
Slingerlands, N Y

ex-W2AQJ now W4JSS

W2ATQ
Walter H. Grosselfinger
109 Plandome Court
Manhasset, N Y

W2AUF Dave
David W. Winters
84-18 87 St
Woodhaven 21, N Y

W2AVI Bill
William H. Kunzler
87-16 107 Ave
Ozone Park 17, L I, N Y

W2AWL
Robert A. Johnson
189 Edwards Ave
Long Branch, N J

W2AWQ
John F. Bunting
Engineering Laboratory
Stromberg Carlson Co
Rochester 2, N Y

ex-W2BCK now WoAKG

W2BDI
Edward S. Clammer
1951 Hillcrest
Merchantville, N J

W2BFD
John E. Williams
38-06 61 St
Woodside 77, L I, N Y

W2BIB
Maxwell Meyers
1940 Saw Mill River Rd
White Plains, N Y

W2BJZ
Richard Budelewski
213 Weimar St
Buffalo 6, N Y

K2BKJ CD See W2RUI

ex-W2BOI
William H. Higginbotham
180 Pearsall Drive
Mount Vernon, N Y

W2BWT
John F. Donaghy
595 E 139 St
New York 54, N Y

W2CLQ Flavel
F. H. Wickware
225 Dahlgren Place
Brooklyn 9, N Y

K2CQP Norm HR*
Norman B. Mack
83 Durland Drive
Lynbrook, L I, N Y

*HR = Listed in 1958 Ham
Register

K2CSC Bud
Charles Rogers, Jr.
261 Nagle St
Bound Brook, N J

K2CSI Joe
Josiah Wright
22 Crestvale Terr.
Yonkers, N Y

W2CSY
Murray G. Crosby
93 Muttontown Rd
Syosset, L I, N Y

W2CTQ
Frederic C. Carpenter
Main & Sherman St
Belfast, N Y

W2CVL
Stanley A. M. Gordon
33-13 111 St
East Elmhurst, L I, N Y

K2CXO
James M. Forzono
North St
Grassy Point, N Y

W2CXY Walt
W. J. Morrison
229 Longwood Ave
Chatham, N J

K2CXP
IBM Radio Club
IBM Country Club
South Rd
Poughkeepsie, N Y

W2DEX Ike HR*
Henry Sherman
250 College Ave
Elmira, N Y

K2DFP
Raymond E. Disbrow
Box 161
Hazlet, N J

W2DOB
Ronald E. Quirk
Ridge Rd
Lewiston, N Y

K2DQ Cy HR*
Cyril J. Staud
260 Kilbourn Rd
Rochester 18, N Y

K2DRN
George E. Magnuson
63 Spring St
Mt Kisco, N Y

W2DVD Don HR*
Donald Vinik
20 Poplar Ave
Deal, N J

W2DWU
Charles F. Blohm
R D 1
Ashville, N Y

W2DXD Bill
William M. Auld
179 Lexington Ave
Westwood, N J

W2EBZ Clay HR*
Clayton A. Cool
443 W 47 St
New York 36, N Y

K2ECQ
Richard F. Ziehl
harmonic of W2RUI

W2EEU Mike
Michael W. Kozlovsky
43 Yahara Ave
Rutherford, N J

W2EHW
Murray Cohen
2078 Wallace Ave
New York 62, N Y

K2EPV
Lila M. Fogle
see W2ZOC

K2ERQ
IBM Radio Assn
IBM Country Club
Endicott, N Y

*HR = Listed in 1958 Ham
Register

K2EW
Conrad E. Roberts, Jr.
110 Myrtle Ave
Merchantville, N J

K2FAL / AF2FAL MARS
HQ Eastern Air Defense Force
Bldg 114-1
Stewart AFB
Newburgh, N Y

W2FAN
Fred D. Armes
707 Locust St
Lockport, N Y

W2FTH
David Metal
2340 Valentine Ave
New York, N Y

W2GHH / K3BYA
Kern M. Bowyer
13 Rock Manor Ave
Wilmington 3, Del

K2GQH ex-W3RHX
Steward F. Moore
Box 144 29 Windsor Rd
Hastings-on-Hudson, N Y

K2GTY
John V. Von Sneidern, Jr.
43 Oriole Ave
Bronxville, N Y

K2GVQ Jim USAF
James F. Olsson
R D 4
Rome, N Y

W2GWL Nick
Nicholas C. Oland
85 Heilman Ave
Lake Ronkonkoma, LI, N Y

W2GYL Ed HR*
Edward A. Ruth III
56 Riverside Ave
Amityville, N Y

K2HHH
George Vivian, Jr.
635 Maye St.
Westfield, N J

K2HHJ
Albert F. Roche
110 W. Jefferson St
Paulsboro, N J

W2HHJ
Stephen E. Pujda, Jr
39 Dawson Ave
Clifton, N J

W2HJX
Joseph P. Hallet
Box H2, Navy 116
FPO, New York, N Y

K2HNM
Theodore K. Riggen
922 Bridgman St
Elmira, N Y

K2HRQ
William Reed Lindsay, Jr.
Annadale St
Armonk, N Y

W2ICA
Gustav E. Schnetzer
300 E Cedar St
Livingston, N J

W2IGI
Edwin F. Ziemendorf
Maple Rd
Newfane, N Y

W2IOA
Julian Goodstein
74 Riverdale Rd
Green Acres
Valley Stream, L I, N Y

W2IRT Tony
Anthony W. Landry
12 Greenwood Rd
Yonkers, N Y

W2IUF
Stuart H. Gibson
149 Leicester Rd
Kenmore, N Y

K2IZD
William Boehle
231 Roosevelt Ave
East Patterson, N J

W2JAV Phil
Phillip M. Catona
400 N Second St
Hammonton, N J

K2JCU / AA2JCU
Edwin Aston
21 Glenwood Rd
Albany 4, N Y

W2JJD
Louie F. Brown
37-30 81 St
Jackson Hts, L I, N Y

K2JMI / 8
Robert V. LaRocca
23726 Whitley Dr
Mt Clemens, Mich

W2JTP / o Byron H. Kretzman
c/o WoBP Minneapolis HR*

W2JYD
Joseph F. Dioguardi
Kissam Rd
Glen Head, N Y

W2JZO
Albert Uthe
50 W 90 St
New York 24, N Y

W2KCR
Paul P. Blum
101 Kristin Rd
North Syracuse, N Y

K2KDH
Harold Turner
Wood End Lane
Bronxville, N Y

W2KDW
Donald S. Scher
11 Webster St
Irvington, N J

W2KFM
Edward D. Samplin
1546 Hewlett Ave
Hewlett, L I, N Y

*HR = Listed in Ham Register

K2KGP
Ralph M. Schmidl
412 Morris Ave
Summit, N J

W2KH George HR*
George W. Bailey
61 E 66 St
New York 21, N Y

K2KHF Bob
Robert Sims
23 Post Ave
New York 34, N Y

W2KLD
Leon D. Held
3260 Corsa Ave
Bronx, N Y

ex-KN2KLY
Herby Rosenzweig
901 Avenue H
Brooklyn 30, N Y

K2KNS
Henry Nissen, Jr.
Trenton Rd
Browns Mills, N J

K2KOH
William Keaslip
397 First Place
Uniondale, L I, N Y

K2KUC / AA2KUC
John J. Novak
85 Greendale Rd
Clifton, N J

W2KXT
Frank W. Taylor
P O Box 222
Dewitt, N Y

K2LBJ
S. A. Schimenti
89 Morris Lane
Scarsdale, N Y

W2LRW
Marcel C. Reeds
Box 200, R D 5
Schenectady, N Y

W2MES
Joe Hellman
65-33 78 St
Middle Village, L I, N Y

W2MIB Doc
Harry Evans
2214 Leighton Rd
Elmont, L I, N Y

W2MYL / W4HYE
Graham Claytor
32 Washington Square
New York 12, N Y

K2NAM
U S N R
Hartwick College
Oneonta, N Y

W2NRQ
Walter M. Robinson
15 Glannon Rd
Livingston, N J

K2OBJ / W4ZC Stu
E. Stuart Davis
224 Elmwood Ave
Union, N J

W2ODA Carl
Carl V. Daniels
16 Carlton Terrace
Rutherford, N J

W2OKO
Robert M. Mendelson
39 Canoe Brook Pkwy
Summit, N J

W200G
Cecil W. Bastian
R D 2
Freehold, N J

K2OQS Jimmy
James V. O'Brien
34 Richard St
Passaic, N J

W2ORX Dick HR* A2ORX
72 West Hobart Gap Rd
Livingston, N J

*HR = Ham Register 1958

K2OVE
E. C. Woodworth
128 Coleman Ave
Spencerport, N Y

W2PAT
Marvin Bernstein
80 Belshaw St
Eatontown, N J

W2PAU Brownie HR*
E. Miles Brown
88 Emerald Ave
Westmont
Collingswood 7, N J

W2PBG Bob
Robert J. Straub
42-35 205 St
Bayside 61, L I, N Y

W2PCD
Renville H. McMann, Jr.
60 E 96 St
New York 28, N Y

W2PEE
Elston H. Swanson
15 Cleveland Ave
Glen Head, L I, N Y

W2PRB
Alex MacDonald
140 Rumson Rd
Massapequa, L I, N Y

W2QBJ HR*
Hazel R. Mulligan
xyl W2RTW

W2QFR
Richard Shongut
69 Bonita Vista Rd
Mount Vernon, N Y

W2QGH / K2AVP Bill
William T. Knott
7 East Ave
Larchmont, L I, N Y

W2QQG
Ted Theodoseau
85-70 144 St
Jamaica, L I, N Y

W2QZI Bruce HR*
Bruce D. Wyman
1589 Scribner Rd
Penfield, N Y
near Rochester

W2RMB Ham
Ogden M. Hamilton
P O Box 328
Norwich, N Y

K2RTF
Arthur Marko
429 E 70 St
New York 21, N Y

W2RTW Johnnie HR*
John M. Mulligan
819 Claremont Ave
Elmira, N Y
see W2QBJ

W2RUI
Floyd Ziehl
199-201 Ontario St
Lockport, N Y

ex-W2RWV K5HQZ
Leonard M. Rawles
P O Box 986
Alamogordo, N Mex

W2SDE
O. D. Glenn
111 Stevens St
Lockport, N Y

K2SKK / W1ZXA
Paul B. Boivin, Jr.
726 Valley St
Orange, N J

W2SMX
John N. North
78 Lawrence St
Farmingdale, L I, N Y

W2SOU Alex
Alexander A. McKenzie
245 Poplar Ave
Hackensack, N J

W2SPV
Edwin T. Kephart
4309 Willis Ave
Merchantville, N J

W2SSS / 3
John Schueler
4706 Norwich Rd
College Park, Md

W2TAM Ray
Raymond De Vos
140 Summit Ave
West Trenton, N J

W2TDV
Frederick H. Wunder
135-21 Francis Lewis Blvd
Rosedale 10, L I, N Y

W2TKO Roy HR*
Roy W. Weise
Rice Rd R D 2
East Aurora, N Y

W2TLY Pete
Peter W. Selmer
Box 181
Farmingville, L I, N Y

K2TPH
William J. Hauer
134 Stanton St
Rahway, N J

W2UAE
Donald G. Field
R D 1 Denow Rd
Trenton, N J

W2UBL
Douglas E. Church
307 Wright Ave
Syracuse 11, N Y

W2UIY
Antoinette J. Alatory
34 Coddington Ave
North Plainfield, N J

W2UMB Leo
Leo Meister
Highfield Lane
Nutley, N J

*HR = Listed in 1958 Ham

14 Register

W2UNR
Harold Carlson
8 Bronson Ave
Scarsdale, N Y

W2UOL Don HR*
see K2AAA

K2USA / AA2USA MARS
AC of S G3 Bldg 682
Fort Monmouth
Red Bank, N J

K2VAM
Kenneth D. Hopper
30 University Ave
Chatham, N J

W2VLL
David G. Vanderhoek
The Circle
Lewiston, N J

W2VVN
Stephen E. Lipsky
574 West End Ave
New York 25, N Y

W2WRQ
Walter M. Robinson

W2YKG
William Tyrrel
48 Willow Ave
Hempstead, L I, N Y

W2YMB
William J. Garrecht
R D 3 Terry Hill Rd
Horseheads, N Y

W2YZL
Thorolf A. Hjorth
23 Baltusrol Rd
Summit, N J

W2ZKV Felix
Felix Esteban
84-24 57 Ave
Elmhurst 73, N Y

W2ZOC
Robert E. Fogle
191 Washington St
Lockport, N Y
see K2EPV

W2ZPR xyl of W2ANB

W2ZRA / A2ZRA Herbert
H. Paskin
63-04 Forest Ave
Ridgewood 27, N Y

Rudy Couppez
85-15 139 St
Jamaica 35, L I, N Y

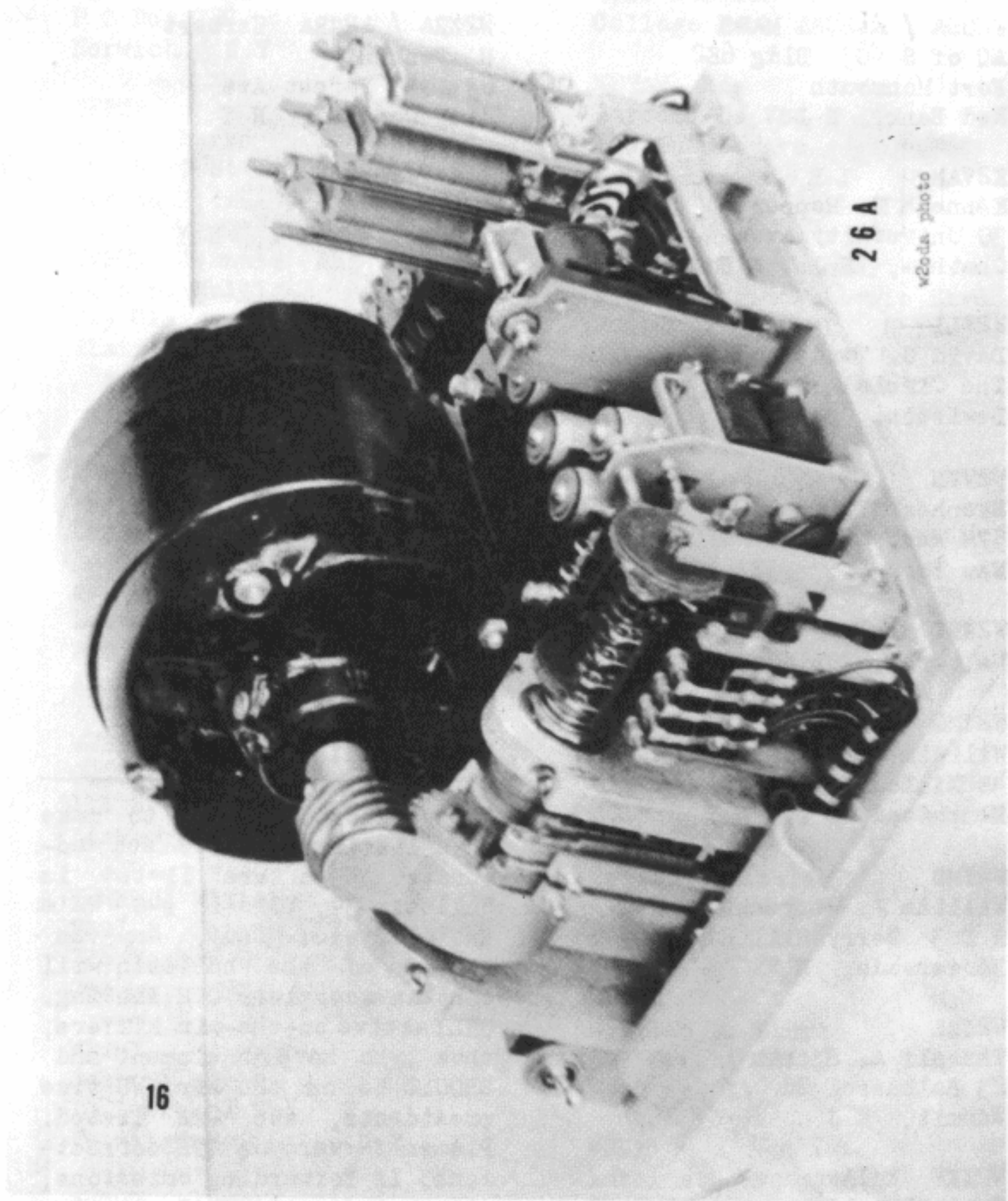
Bill Henn
161 Menahan St
Brooklyn 21, N Y

Louis Max
1 W 67 St
New York 23, N Y

Edward P. Nelson
11 Montana Place
P O Box 164
Huntington Station, N Y

Robert James Rukeyser
150 West Pinebrook Dr
New Rochelle, N Y

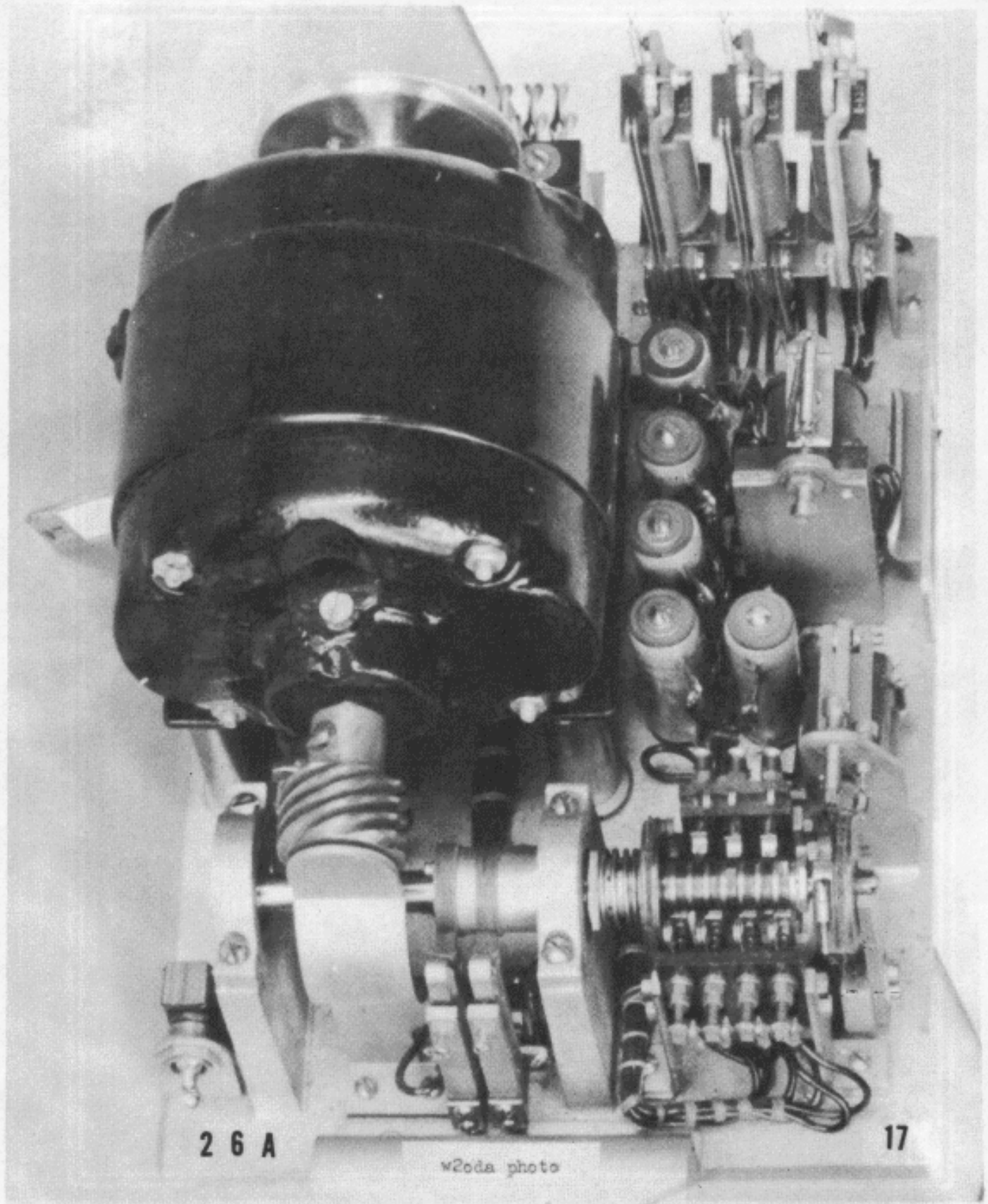
Every effort IS made to make this listing complete and accurate. W9's are listed in bulletin 39, W0's in #40, W2's in #52, etc. Thus, any ten issues of the bulletin will contain a complete QTH listing. ONLY active on-the-air RTTYers, those who have equipment and SHOULD be on the air, WU vice presidents, etc are listed. Please forward any QTH corrections. If forwarding omissions, please indicate WHY the listing should be made. Are you a CARD? if not, Why not? -W2EBZ



26 A

w2oda photo

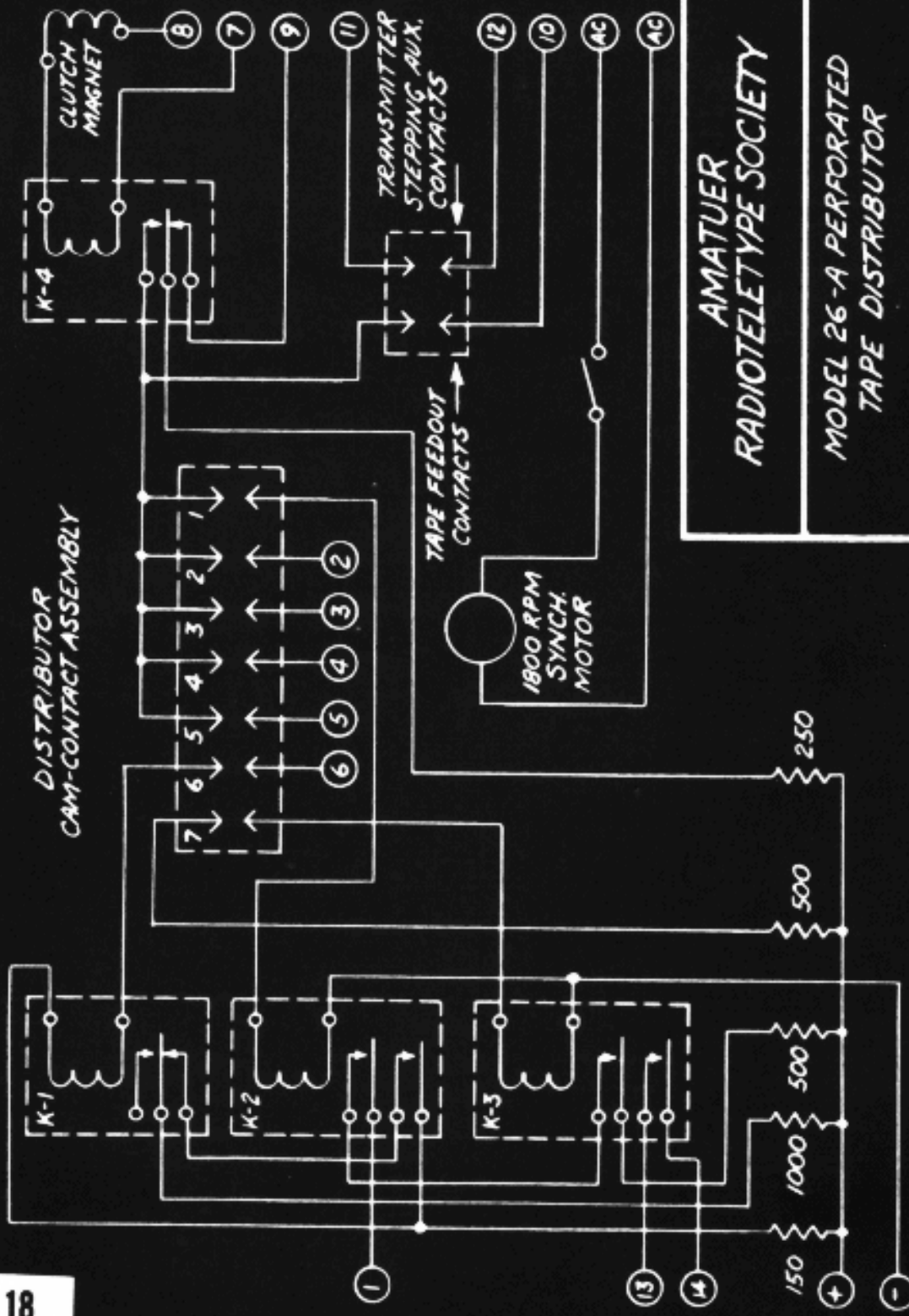
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26 A

w2oda photo

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AMATEUR
RADIOTELETYPE SOCIETY

MODEL 26-A PERFORATED
TAPE DISTRIBUTOR

DRAWING NO. ART7-105
DRAWN 3-1-1958
drawn by w2oda

NOT SHOWN: - MOTOR CAPACITOR, CONTACT
SPARK-SUPPRESSOR CONDENSERS
AND RESISTORS.

MODEL 26-A 5-UNIT CODE PERFORATED-TAPE DISTRIBUTOR. May be used with Model 12 printers, 10-A reperforators, or other 5-magnet equipment. Base is cast aluminum. Several relays were used for special jobs. These may be eliminated or used for special stunts. Pics and drawing of the 26A by our new assistant editor, W2ODA.

SIXTH ANNUAL N Y C RTTY DINNER

The Sixth Annual Amateur RTTY Dinner will be held in New York City the evening of March 23, 1959. Technical discussions and demonstrations of teleprinter equipment are planned. Reservations must be made in advance so proper space may be reserved. Details are available from W2EBZ, Clay Cool, 443 W 47 St, New York 36 or over the air via W1OUG, W2ODA, or WoBP. Attendance last year was almost 50. See details of last year's dinner in this issue, which we are printing just in time to serve as advertisement for the 1959 shindig. Interested in SSB? Make the RTTY dinner and stay over another day to make the S S B dinner. Interested in electronics? See the IRE show when in town, then put the whole trip on expense account!

W2EH GEORGE W. BAILEY is now on 3620 RTTY from New York, NY. Dr. Bailey is executive secy of IRE, AFCEA president 1954-1956, and ARRL president 1940-1952. George uses a Model 26, Howard converter, Eldico FSK unit, and 1,000 watts. George was testing with RTTY last July about 7 pm on a Wednesday evening --- with 14 stations answering, he never knew what hit him! Now he knows that Wed. is East Coast net night!

10th ARRL NATIONAL AMATEUR RADIO CONVENTION, Sheraton-Park Hotel, Washington D C, Aug. 15-17, 1958. Attendance at the RTTY dinner on Saturday evening was 27. Many more attended the Saturday afternoon RTTY technical session or Sunday W3CRO demonstration on the Model 26. Among those present at the techsession, dinner, or demonstration were:

| | | |
|--------|-------|------------|
| W1AFN | W3FU | W8NYS |
| W1BDI | W3LDX | W8OAC |
| W2BDI | W3PYW | W8PFE |
| W2EBZ | W4EBH | W9NY |
| K2HHH | W4KMG | W9QKE |
| W2JAV | W4LNT | W9SGD/THE |
| K3BEG | K6CHR | WoBP |
| KN3BYI | K6OUR | WoLFI |
| K3CFD | W6UJX | VE2ATC |
| W3CQX | K8HFG | VE2ATC-xy1 |
| W3CRO | W8IJV | Don Martin |
| K2HEJ | | (Collins) |

MODEL 15 TELEPRINTERS
FOR SALE TO AMATEURS
COMPLETE, LESS TABLE
A/C GOVERNED MOTORS
WORKING CONDITION
\$100 IN NYC AREA
(PACKING CHARGES EXTRA
IF SHIPPING IS REQUIRED)

FELICIANO I. ESTEBAN
W2ZKV

84-24 - 57th AVENUE
ELMHURST 73, N. Y.

Phone Illinois 8-9691

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MSK

NEW YORK, N.Y. 1
1959

OUR EMBLEM: THE EDITOR



OF THIS BULLETIN MANY YEARS AGO HAD THE EMBLEM (LEFT) DESIGNED EXCLUSIVELY FOR THIS BULLETIN. THE ARTIST WAS PROPERLY COMPENSATED FOR THE DRAWING. THIS EMBLEM HAS BEEN USED EVER SINCE AS THE

"TRADEMARK" OF THIS BULLETIN. NO ONE ELSE HAS THE RIGHT OR PERMISSION TO USE THIS EMBLEM. WE NOTE A RECENT ATTEMPT BY A PAID COLUMNIST IN ANOTHER PUBLICATION (NOT QST) TO IMITATE OUR EMBLEM, AND BY SO DOING TO TRADE ON THE PRESTIGE, GOOD WILL, AND POPULARITY OF THIS BULLETIN. THE PUBLISHERS OF THIS BULLETIN CONSIDER THIS COUNTERFEITING OF OUR EMBLEM TO BE THE LOWEST FORM OF THIEVERY AND PLAGIARISM.

A R T S BULLETIN NR 52. DECEMBER 1958 PUBLISHED FOR ALL RADIO AMATEURS INTERESTED IN RADIOPRINTER, RADIOPHOTO, AND AUTOMATIC RADIOTELEGRAPHY. SUBSCRIPTION RATE: \$3.00 FOR 12 ISSUES TO U S ADDRESS OR TO AMATEUR RADIO FOREIGN ADDRESS. NEWS, RTTY TECHNICAL INFORMATION, COMMENTS, CRITICISM INVITED. ADVERTIZING RATES ON REQUEST. RED INK MARK TO THE LEFT INDICATES THAT YOUR SUBSCRIPTION HAS EXPIRED, OR IS ABOUT TO EXPIRE, AND YOU SHOULD RENEW PROMPTLY TO CONTINUE RECEIVING THE BULLETIN. MAKE CHECK OR MONEY ORDER PAYABLE TO A.R.T.S OR THE PUBLISHER, CLAY COOL. TO IMPROVE THE SIZE AND CONTENT OF THIS BULLETIN WE MUST INCREASE CIRCULATION --- URGE YOUR FRIENDS TO SUBSCRIBE. FREE SAMPLES OF THE BULLETIN WILL BE SENT TO INTERESTED AMATEURS ON THEIR, OR YOUR, REQUEST. KEEP 'EM PRINTING!

A- R- T- S-
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(ASSISTANT EDITOR)
-- WE9-1903 --
LEO MEISTER + W2UMB
HIGHFIELD LANE
NUTLEY, N J
(PHOTOGRAPHY)
-- NU2-2323 --

Mr. Jim Haynes
518 South Pine
Hope, Ark.