John finally did it! The other day my printer started up and the epochal news came over from W2BFD that he had completed his home-made keyboard and had it on the air. John is busy these fine days taking pictures of it and writing an article for CQ on how to do it yourself. The whole thing costs less than $5 to make and isn't very time consuming when you see how to do it. This development certainly will have lasting effects upon ham teletype for it will make it possible for us to make use of the many receiving-only printers which here-to-fore had been passed up. One more unit is needed before we are independent though; the transmitting distributor. I have been trying for over a year now to excite someone into making one of these things, and so far no results. It should be easy to do too. Guess you are all lazy.

Several of the gang stopped in for a visit at the Karlson Associate exhibit at the Audio Fair and were properly amazed at the performance of our enclosure. At least 15,000 people spent some time in our room there and got a good look at our formica cabinet. Now I am being kept busy night and day trying to answer all of the questions that are coming in and keep track of the orders. Most everyone agrees that we had the most startling exhibit at the show. Wish I had had some room to set up one of our teletype machines there too and try to raise some interest in that.

Since we will all be pretty much absorbed in fsk equipment in the near future this is probably a good time to unwrap for those of you who have no copy of it, the circuit for adding fsk to the Collins 310 and 32V transmitters. These units use the type 70E-8 oscillator. The 6AL5 socket can be mounted in the top of the filter which plugs into the oscillator. While making the conversion remove the condenser between the RF and B+ terminals: C-103. The frame of the teletype machine should be well grounded. The 5 - 50 mmfd condenser is used to adjust the amount of shift.

ARTT 4007

FSK Attachment for Collins 32V

(W6ITH)

W2ISG, Mamaroneck, N.Y., is on the air with his printer at last. W2AKE, L.I.,N.Y., should be on soon. (reports W2BFD)

Had a bit of a start when W9SKF phoned the other day and said that U.P. was selling all of their model 15's as they come out of service. They are replacing them with special typesetting model 20 equipment. Checking locally we found that they were being bought for parts by a N.Y.C. outfit, but that the price is way above anything that a ham would be interested in: $500 or so. Where?

W2VDM, Harry Green, bought the model 26 mentioned in the last bulletin and found it to be brand new! Negligent to divulge, he is all excited about it. (But Harry, when will you get on the air???)

W7GLT checked in with a report of no progress. He has been putting a new roof on the house, painting, and other wastes of time.
Since quite a few members have written in asking how to adjust the polar relays, and since even more of you are operating with your relays miserably adjusted, it is about time for me to break down and give you the dope on a simple way to get these things set correctly. The following method was demonstrated to W9UAU by W6NRM on a visit last spring.

The d.c. amplifier part of the receiving converter is used for this test. The output of the filter circuits is disconnected from the rectifier and 60 cycle 110 volts is fed to the grids of the 6V6 tubes (through an isolation transformer, naturally). A very simple method of doing this with the W2BFD type of converter (using a 6H6) is to disconnect the 6H6 (pull it out) and make up a small unit to plug in its place from an octal plug and a wee filament transformer. Diagram at right shows connections: Disconnect the contacts of the polar relay from the teletype machine and connect them as shown in the second diagram. Either the main or space contact may be connected to the oscilloscope circuit. The battery may be any available unit from 1 volt up.

When the converter is turned on the relay will buzz and a pattern will appear on the 'scope which should resemble a square wave. Adjust the contacts on the relay until a true square wave is obtained. This not only adjusts the relay for correct bias but shows any chatter that might be present so that it can be corrected too.

Just got word the other day that W6NJP, Chester Carter, Richmond, Missouri, would like to sell a model 12 in "excellent" shape with a d.c. power supply, filter, two polar relays, ten rolls of paper, and nearly all of the prints from the VHF Teletype Society. The machine also has a single space gear installed. The first $100 and waiver takes the whole works. Sounds like a fair deal to me.

W5PJN in New Orleans has ordered a printer and will, if he can get his wife to put up with the clutter, be on RTTY with us. Paul would like to see some circuits for a.f.c. systems. Any help in this matter? W5PCT (near Covington, Ky.) is now working W5PTF (up in Dayton) on 2M quite regularly. Fortunately PTT's efforts got him a second machine which he lent to PCT while he was waiting for his to come.

WERTW: "I've been having too much fun to write. I received all of my equipment several weeks ago (you see fellows, it really is coming through) and of course on the day it arrived I couldn't wait to try it. Hooking it up was some job, talk about haywire! I had wires hung all over the place. In spite of having no diagram I managed to get it all wired and: it worked." W5SLL sent in another testimonial for TT: "I have been interested in and working with RTTY for over a year now and find it one of the most interesting things I have worked on yet." Ted in an RCA field engineer. Part of his time he spends helping MARS: K2FAL. This station has been in the MARS teletype net since it started. Equipmentwise they have the W2BFD converter, TG-7 printer, Robert-Dollar fsk, and a BC-610 transmitter.

W3LMG has finally finished his documentary film of the east coast TT operation. Squoze the whole thing into 8mm film. He sent me some copy of W2BFD that he got down there Baltimore way.
W2MIB reports that he has just finished an all band rig with ECO for rtty. Dick also points out that he has moved from Brooklyn to Long Island, leaving me the only rtty' er in the borough. Hmph, 34 million people, and only one rtty station.

W6KKV is getting things nicely set up for a Pacific traffic net with W66AS and K6PAA. Dave has recently purchased the final piece of equipment to make his station complete for traffic handling: the re-perforator. With this he will be able to punch tape from the incoming signal, make any corrections necessary, and feed it into the tape transmitter. This should cut his operating time down for the same quantity of traffic.

W6OZE: "A few of us were down at the ARRL convention in San Diego and had a very good time (they tell me). I had a chance to collar some of our League reps and to find out what the score is on amateur rtty. Johnnie Griggs and the W6 directors were very much surprised to hear of any opposition to us back in Hartford. In fact, they seemed to think that I must be misinformed... The next day, Merrill, W6AHE, also brought up the same question from the floor in an open forum while we had the president there at the meeting. Again the answer was the same. They all said that there was no opposition to rtty in any form at headquarters and that we must have all gotten our information mixed up somewhere." (It is pointless to argue about what has been going through the minds at headquarters. The problem is the results of this thinking, that is what is on the books for all to see. The ARRL has requested the FCC for no rtty in the new 15 meter band, no rtty in the 20 meter band, and no rtty in the 80 meter band. They have asked for 50 (count 'em - 50) kc, in the 40 meter band, the same 50 kc as is asked for the Novices! If that almost total decapitation of the rtty head is an example of the ARRL being friendly to us, as they apparently claim, then what is in store for those that the ARRL is in opposition to? (W2NSD comments).

W6BP has been disgruntled around about the frequent attempts of the ARRL to open the sea cocks on our teletype ship of state. While in a particularly diabolical mood he happened to bump into a typewriter and turned out a thinly veiled parable of the ARRL situation. Since this arrived the same day as I was putting together the column for CQ, and since it almost collapsed me when I read it, in it went. The next day I took the manuscript over to Perry and after making all of the long distance calls on his phone that I could think of, whipped out, with a masterly flourish, the parable. He leaned pontifically back from his desk, turned his sneer up to R6, and, while dictating to one of his secretaries, carefully read it. "Oh my God," he cried, jumping up and knocking his chair over backward, "If we print this we'll get sued." He paused for a moment, his mouth working but no sounds coming out. Finally he managed, "I'll have to rewrite it." I won't go into my comments as I am sure that TV script writers and butchers would be offended. A few days later his assistant, Bob, called on the phone and read me the rewrite that Perry had sent in. He had done better than Pravda, it was a completely new story, and made no sense whatever. After I regained my breath Bob and I spent a good half hour rereading it so that some small part of the original story was present. Perry took this reread and rewrote that. I am afraid to read the final version. A couple days ago, while I was visiting, Perry thrust a page proof of the parable into my hand for me to edit. After reading the first two lines I just couldn't go any further. My poor poor teletype column.

While on the subject of CQ, have you noticed the size type they use for the RTTY column? It is easy to see that they by the page, not by the word. Fortunately, the rtty' ers have all developed good eyes by reading this diminutive printing. Wait'll you see the December CQ. Perry has surpassed himself this time. Three 8 X 10 photos have been montaged and reduced to about 1 1/2 x 1". Perry denies the rumors that CQ is investing in a new set of midget type for future editions of my column.
W2FTH is interested in rtty on 220 mcw around New York City. ??

Quite a few fellows have written and asked if there is any sort of text book that I could suggest for those interested in finding out how teletype works. I don't know of any, does anyone else?

Have one complaint about the amount of social news in the Bulletin. I am afraid that you fellows are stuck with that for I particularly like to write such news. As a matter of fact, as my work load increases I am afraid that something will have to give, and it no doubt will be the Bulletin first since it is such a time stealer and money looser. My hamming time has already been cut down to less than one hour a week; my dates to zero. This is ungood and must change.

I finally succumbed and bought a tape recorder. If any of you have similar gadgets you might drop me a line on one of the 3" spools which you can put in an envelope and mail for 6¢. They have 16 minutes of tape on them. Don't put news for the bulletin or CQ on a tape though for I can't sit there and copy off information. The tapes are to ask questions and say hello. Make 'em brief. I have been correspond- ing with W6BAJ and W6TD this way so far with success. Don't put any rtty tones on there either since my TT machine in NYC is miles from the tape recorder.

CO2AZ writes that there is a group of Cuban stations interested in TT. W6NAT needs a model 12 keyboard, any around?

W2BPD and W2QGH did a top notch job of handling the New York State election results again this year for the City. Results were handled by CD stations all over the state to an upstate central point where W2QGH punched them in tape and fed them to W2BPD in the Municipal Building. In this way the City station WNYC was able to scoop the networks and wire services on New York State results by several hours. Chalk another one up for amateur radio teletype.

Wayne Green, W2NSD
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