

EDITORIAL

by

TOM EDISON

As 1975 comes to a close let us reflect upon some of the major events of the past year: the big fire in N Y Bell's C O touched off by Pa Bell's own arsonists in a feeble attempt to prove to the world the necessity of absolute monopoly over the communications industry; the never-ending rate hikes that Bell's puppet, the P.U.C., forces on us in the name of giving its shareholders a fair return and giving the rest of us a swift kick in the ass; the charge for directory assistance; the disclosure that Pa Bell monitored and recorded over 30 million calls using millions of dollars for Box detection equipment and salaries for untold overtime man-hours all paid for by increased phone rates with absolutely no improvement in "service" to the public; and finally, the change in the Fortress oscillator from a single tone to "F" tone. Quite a year for Pa Bell- one of arson, greed, corruption, and invasion of privacy!!! Big Brother Bell is watching all of us! What can you do?

YOU CAN JOIN TAP! Tap is more than just the phone phreaks underground newsletter- it's a course in basic survival! Every reader has some information to share and we can all learn from each other. All it takes is a little time, some paper, a stamp, and an envelope. You don't have to be an expert to have a good idea. You may not have noticed it but in the last three months Tap has put out three issues- three damn good issues made possible by an increase in our staff. Help us to continue to put out the most informative newsletter since the Bell Journal.



No. 31

DECEMBER 1975

MERRY CHRISTMAS AND HAPPY NEW YEAR

FROM THE TAP STAFF

AL BELL

DAVE

TOM EDISON

CHARLES

Mr. PHELPS

R. SYSTAT

B. J.



This cartoon was sent to us by a New York reader; where it was from, if anywhere, is unknown but we wanted to share it with our readers.

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BLACK BOX BEATS BELL IN THE FOURTH!

We have had several issues dealing with Black Boxes, those wonderful little devices that allow the user to receive long distance calls at no charge to the calling party. This article will deal with the different designs that can be used.

The basic sections of most black boxes are the DC blocking capacitor, the power source, and the ring stopper.

The DC blocking capacitor prevents the central office equipment from starting the calling procedure. In some areas as much as 10 millamps can flow through the line without starting billing, but why have any current flow if a capacitor can easily block it all? The answer is that the size in microfarads is critical in this design because it determines the length of time that the pulse lasts. When the switch is closed to make the phone act normally again, the huge capacitor is discharged by the switch through a 10 ohm resistor that limits the current. Without this resistor, this switch after the pulse, it doesn't charge itself up again, more and then performs the DC blocking function. Obviously the size in microfarads is critical in this design because it determines the length of time that the pulse lasts. When the switch is closed to make the phone act normally again, the huge capacitor is discharged by the switch through a 10 ohm resistor that limits the current. Without this resistor, this big capacitor will be damaged by the discharge surge.

Figure 2 shows a similar circuit that uses two Zener diodes back to back to stop the ringer. To answer, the phone is picked up after the switch is opened, and the ringing voltage avalanche's one of the zeners. The surge makes the line voltage drop, thereby taking the zener out of avalanche. This ring stopper is very quick, and is recommended by phone phreaks who are served by sensitive equipment.

Figure 4 uses a simple push button for the ring stopper. This provides manual control of the timing of the pulse. It can be hit quickly, and if it doesn't stop the ringing, it can be hit for slightly longer and longer times until the ringing is stopped. The power source is a 6 volt battery, which can be 4 D cells or C cells strung together in series. The simplest Black Box circuit published to date has been the one in Issue 11 of TAP (TIP at the time). The capacitor is built into the phone, the ring stopper is the pick up and hang up procedure, and the only parts needed are a 10K resistor and a SPST switch. We have plans for the same thing for Automatic Electric phones for those customers of General Telephone, and for Western Electric phones serviced by Bell Companies.

Calls on Black Boxes are usually kept short for safety,

and of course no other extensions can be picked up during the call will be billed. Most phone shysters remove Black Boxes from their phones at the first sign of suspicious activities on their phone line. For the ultimate simplicity in Black Box design, see letter below.

To perform the ring-stopping function, the switch is closed and the phone is quickly picked up and hung up. Then the switch is opened and the conversation can take place.

This circuit in Figure 2 is from Article #1170 in the *Black Box*.

This circuit is basically the same, but the capacitor is now 100 mfd. When a call comes in, the switch is opened, and the phone is then picked up. The discharged capacitor sends up a big pulse and thus acts as the ring stopper. After the pulse, it doesn't charge itself up again, more and then performs the DC blocking function. Obviously the size in microfarads is critical in this design because it determines the length of time that the pulse lasts. When the switch is closed to make the phone act normally again, the huge capacitor is discharged by the switch through a 10 ohm resistor that limits the current. Without this resistor, this big capacitor will be damaged by the discharge surge.

Figure 3 shows a similar circuit that uses two Zener diodes back to back to stop the ringer. To answer, the phone is picked up after the switch is opened, and the ringing voltage avalanche's one of the zeners. The surge makes the line voltage drop, thereby taking the zener out of avalanche. This ring stopper is very quick, and is recommended by phone phreaks who are served by sensitive equipment.

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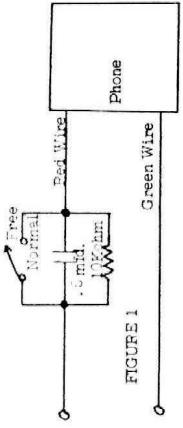


FIGURE 1

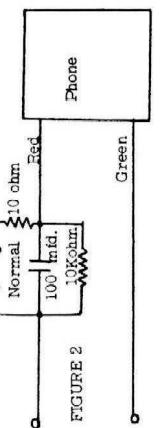


FIGURE 2

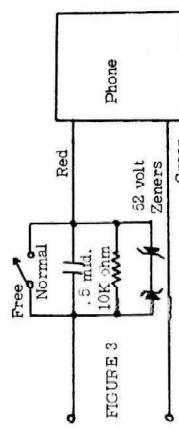


FIGURE 3

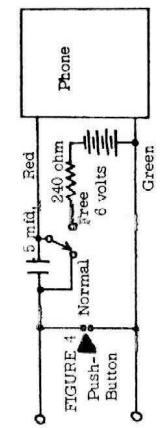


FIGURE 4

Example: 1 1/2 volt battery uses a .025 = 50 ohm resistor.

Dear TAP,

Here is a description of a poor man's mute. It requires no parts at all, just a training style rotary dial telephone.

Here's what you do. When you want to make a call pick up the handset from the cradle slowly and at the same time keep the hookswitch on the base held down with your left hand. Now with the hand holding the receiver move the dial as if you're dialed a "1" and let it return half-way. Then release the hang-up switch on the base. If you have done it right you will hear the ringing coming out of the earpiece, so to stop the ringing move the dial slightly back and quickly return it to the middle position. You will now be able to hear your friend but to talk to him you will have to yell into the earpiece, because the transmitter doesn't work on this cheapie mute as there is no resistor to let current through. One should practice manipulating the dial before trying to make a long distance call.

This is very primitive, but the beauty is the fact that no alteration of the phone is required, so no expertise in case of a bust. Any dial type trimline will work. It won't work with other phone types because the earpiece is short; when the dial is moved, so you would have to remove the earpiece wire from the dial, and if you're going to do that you might as well go ahead and put in a resistor and switch. So let's see those trimline phones (for which you pay extra) put to good use.

-CALIFORNIA-

Letters From Readers

Dear TAP,
This is Captain Crunch. I would like to mention a few things. First, I'm glad to see you boys back in operation & am curious to why my willingness in contacting for a while. I also want to state my willingness in contacting as many would-be friends as possible, in person only & not by mail. Therefore I am offering to anyone who wants to come see me in Mt. View all I know in electronics, computers & related techniques including breaking of course. However I dislike talking on the phone, nor communication by mail. If you even receive this letter, I would consider it a miracle. My current address is: J. T. Draper, 1905 Monteclaro Ave. Apt. #6, Mt. View, Ca. 94040 for those who want to set up a meeting by mail. Phone is 415/964-9041 and 985-4210. Cf course I am not underground. A while back National Review published my phone number in the hopes that people would bug me by calling at 3 am etc. They didn't realize that I made hundreds of new friends & taught hundreds the art of breaking. Any people who want to visit me are welcome. They can stay with me up to a week (it usually takes that long to teach them). You might want to publish that fact. I am starting a computer data-base of info for phone breakers & computer freaks. This data base will be to the computer company I work for. There are 3 access levels of security which are:

1. General- Everybody and Anyone.
2. Protected- For sensitive numbers that would be changed if widespread.
3. Secure- Random scrambled data, accessible only over a non-tap direct connection I cannot discuss here. Cost 96¢/hour connect time charges. 12 midnight to 6 am. (PST), 3 am. to 9 am. (EST). This includes IC and uses Standard TTY terminal. No WATS lines so people will have to figure out how to call it. Anyone interested, call 964-5331 (415). This is a company called "Call Compu'ers". It uses an HFP 3100A with 100 Megabytes storage. A very tap secure system, this is not a cheap H2000F system but a much better BII system -"Basic Timesharing System". So far we have 20-30 or so people, each with their own access code. I usually give a lot of information this way, more so by phone, but less than in person. It's cheaper than Western Union, more secure but of course calling the computer costs money (or does it?). One could use credit cards because if the operator tried to call back a data tone would be reached. Good luck.

-JCHN-

Dear TAP,
I just had a new phone put in upon which my previously perfect black box no longer worked. It took some time but I finally realized that the red wire (from the wall to the L2 terminal) was backed up by the black wire (from the wall) which is not normally used in the phone hook-up (but which is also connected to L2). Easy remedy to this of course is to remove both the red and black wires from L2 and connecting them both to the proper wire on the black box.
Phone installer friend of mine told me he was told to hook up both wires from now on but he didn't know why.

-CONNECTICUT-

Dear TAP,
Want to advise your readers how to get additional phone equipment from Pa Bell for free. I just got a long type stretch cord that the business office bills \$22.50 for. The way to do it is not to deal with the business office but with repair service instead. Break any existing equipment you have (say you saw a snap and take commercial and cut your phone cord, then postponed moving and call repair service. When they come, the guy will give you whatever alterations you wish. Not only did he give me a new cord but I got a new phone too. He said repair service would only forward a bill when this becomes habitual with a person.

-NEW YORK-

Advisable Missions Force
New York.

RAO Credit Card Codes

Area RAO Codes and Locations

201	094 Newark, 091, 093	416	476 Toronto
202	032 Wash. DC, 033	501	147
203	020 Hartford, 010	502	550
206	163 Seattle, 167	503	131 Portland
209	254 Stockton, 289 Fresno	504	046
212	072, 074 N. Y. C., 017, 018, 021, 024, 022	505	105
213	183, 184 L. A., 046, 182, 187, 332	509	128 Spokane
215	041, 042, 043 Philadelphia	513	185
216	050 Akron, 082 Cleveland	516	127 Long Island
218	126 Duluth	517	224 Lansing
301	011	601	059
302	023	602	064, 065
303	153	604	493 Vancouver
305	044 Miami	608	201
307	137	612	126 St. Paul
308	097 Omaha, 237	613	473
312	097 Chicago, 098 Suburbs, 234	615	047 Nashville
313	083 Detroit, 013, 096	617	001 Boston, 023 Worcester,
314	177 St. Louis, 143	702	271 007, 008
315	303	703	033
401	019 R. I.	704	319 Charlotte
404	035 Atlanta, 022, 025, 063	713	151 Houston
406	154 Montana	716	534 Rochester
408	293	801	155, 383
412	030 Pittsburgh	813	152, 027
414	088 Milwaukee	814	208
415	158. S. F., 167 Berkeley, Oakland	901	187 Memphis
		914	066, 141

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Back Issues-Listed by feature articles

- 50¢ each, 40¢ each if complete set is ordered.
- 1-Extensions, Conference Switches
- 2-Blue Box Story and Abbie on Ripoffs
- 3-Telecommand Story
- 4-Pay Phone Issue
- 5-Blue Box 1 → Early Model
- 6-Blue Box 2 → Tuning your organ, 3-slot ripoffs
- 7-Credit Card Calls/1972 Code
- 8-Credit Card Calls/1972 Code
- 9-Black Box
- 10-Black Box
- 11-
- 12 Blue Box Plans
- 13 Int'l calls & Codes, Bluebox plans
- 14 More codes, AT&T Papers, Ca. Test numbers
- 15 1973 Credit Card Code, T network
- 16 Red Box plans
- 17 Red Box, Line Relay, Don't Get Busted
- 18 Cutgoing long distance call stopper
- 19 Snoop light, Taping Fortress tones
- 20 Cheese Box(Conference line, or loop-around)
- 21 Automatic Phone Tap, Convention Report
- 22 Answeroo, "How we catch Red Boxers"
- 23 Free Electricity
- 24 Fraud Detectors, Index of TAP issues, 1974 CC Code
- 25 New Red Box, Free Gas
- 26 New Bismarck, Con Ed key (also 23, 29)
- 27 Free Electricity, Blue Box Correction
- 28 Reading Computer bills, loop suffixes
- 29 Improved Bluebox & Snoobite, Int'l codes
- 30 Fortress Pay Phones, Party Lines

FACT SHEETS -25¢ each

- 1. Credit Card Calling Hints
- 2. Receiving Long Distance Calls Free
(Same as Issue 11 for General Telephone Co.)
- Customers instead of Bell Telephone Co.)
- Displayed Red Box
- 2600 Whistle Perfector → 50¢ per set.
- Dual tone oscillator
- Anti-Bell Button-50¢ 10/\$3

BOOKS

- Steal This Book-\$2.25
- Monopoly - \$1.20
- Courses-50¢ each: A-Basic Electricity, B-Alternating Current, C-Basic Phone Operation, D-Amplifiers.
- Send Check or Money order only to TAP
- Address: Room 504, 152 W. 42 St, New York 10036
(This is a Mail Drop only)
- Office: 1201 Broadway, Rm. 608, Wed. 4-7 pm.
NYC 10001

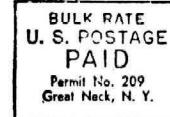
We need info on:

- Vending Machines- locks, techniques for getting your money's worth.
- Locks- code books, picking methods, safe manipulation, sources of supply.
- Radio- pirate stations, jammers, etc.
- Cable TV- tapping into the line.
- Utilities- info on N. J. Public Services' round ceramic electric meter seals.
- Burglar alarms- Holmes & other central station systems.
- Printing- methods, magnetic ink used in printing checks, etc.
- Computers- Timesharing- Access codes.

Published for informational purposes only by Youth Hot Line Reports, Inc.

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This Does Not Compute

First, there were the phone phreaks, those technological marvels who used blue boxes, black boxes and other colored boxes to fleece AT&T out of a few dollars. Now, it may be the dawn of a new space-age whiz, the keypunch crazies.

New Scientist magazine reports that a 15-year-old London schoolboy named Joe used a school computer terminal to crack the security system of one of the biggest time-sharing computers in England. With no formal computer training and just four months of schooling, Joe was able to gain access to top-secret information from various big businesses. He even went so far as to change the data stored in the computer.

Spokespersons for the computer involved (even a computer has spokespersons these days) admitted that the boy wonder was in a position to completely take over the entire system, shutting off other users, changing passwords and altering bills sent to customers. And Joe could have gotten away with it had he only kept his young mouth shut. Instead, he sent a note completely confessing what he had done. A new security system for the computer was immediately installed.