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TAP RAP by TOM EDISON

As some of you may have suspected, there has been a change of command at TAP. The founder and former editor who has kept a very low profile over the past year and who still wishes to remain anonymous, has left for greener pastures. We wish him well in whatever new field of endeavour he's involved with now.

It has been some time since any formal TAP policy has been stated so let me start my editorial duties with a statement on Tap policy. We will try and continue to make TAP a source of information that is not available from any other source. We've tried to broaden our scope over the past year by reporting on politix, environmental protection, pop culture, and even CB radio and we will try to continue to publish even more varied subjects. We will try to be more responsive to your comments, compliments, and even criticisms. Reader apathy SUCKS!!! If you liked a particular article or thought that it stunk, don't just sit on your fat ass at home and do nothing. Let me hear from you! We cannot improve the quality of TAP if we get no feedback from you.

I'm happy to report that my plea in issue #41 for articles by readers has gotten results already. Joe Greyhound, Ted Vail Agent MDA, and Krammas have submitted articles, some of which we've already published. Let's hear from more of you budding young writers out there.

I know that I've bitched before about TAP's renewal policy but it's a known fact that most readers just skim over each issue and pick out for reading only the spicy articles so I'm briefly going to mention it here one more time. ALL personal checks MUST clear your bank before I'll process your order so if you don't want a delay of a few months, PLEASE send in only money orders or cashier's checks. And if you're renewing you MUST send me either your mailing label or a photo-copy of it. TAP is NOT responsible for ANY errors in your sub if you do not include your mailing label with your renewal!

And while I'm on the subject of renewals, whenever you're writing about your sub, PLEASE use the name that you sub under! I won't embarrass the idiot by printing his name here but one of our readers sent me a post card, and a rather nasty one at that, demanding to know where the hell his issues of TAP were. He signed the post card with his real name but the stupid bastard actually subbed under the name of "Occupant" so that when I looked for his real name on our sub list, I couldn't find him. Only after a lot of trouble tracing by address and zip code did I find him under "Occupant". I personally don't give a shit what name you sub under but PLEASE use the same name whenever you write to TAP!

And don't bitch to me about how I botched up the spelling of your name on your mailing label! You are to PRINT or TYPE YOUR NAME and ADDRESS CLEARLY or I'm NOT responsible! If I can't read your chichen scratchin', TUFF SHIT!!!!!!!!!!!!

Many readers have asked why the middle initial in their names is placed without a space between it and their first name on their mailing label such as John Q. Public which is printed as JOHNQ. PUBLIC. The reason is that our print out will not allow any break in the first name and if we tried to put a space between the first name and middle initial, the print out would not accept it so rather than loose your middle initial, it is tacked onto the end of your first name, which sometimes makes for a very amusing first name!

TAP also receives many inquires as to the total number of subscribers that we have and even a few of you real nosy bastards want to know how much money we have in our bank account. For OUR security, the answers to these questions is N. O. Y. F. B. !!!

Many new subscribers are getting TAP's address from old publications which still list our old sub rates. As a result they are only sending in half of the correct amount. We have NOT been sending them notices that they owe TAP more money. What we have been doing is to credit them with 1/2 of a subscription which means that their sub will run for 5 issues instead of the usual 10. If you get a request to renew after receiving only 2 issues it's because you sent in only half of the correct amount.

TAP

MAY-JUNE 1977 NO. 44

WE NEED YOUR HELP!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!

With the reduction of our staff it is going to get harder to put out issues of quality unless we get some reader support NOW!!! We have bitched for well over a year that we need volunteer help and you NYC area readers thumbed your noses at us. I have painfully accepted the fact that you NYC area readers are just too damn apathetic or lazy to drag your asses up to our office but I will NOT accept your lack of responsibility to TAP! Your commitment does NOT end with a subscription! We need writers, articles, information, ideas and a hell of a lot of monetary support! Every TAP reader should try and get at least one friend to sub to TAP.

If I continue to receive some help from a few of you more dedicated readers, I can guarantee to publish an issue every two months. If I get more articles by you readers, I will try to publish an issue every month. If I get no help from you readers, you can just scratch your asses and wait until I do get some help. 1977 is the year we either make or break TAP! I am going on record here and state that if I do not receive sufficient help, I WILL FOLD TAP AT THE END OF THIS YEAR!!!

I am running out of those cute little newspaper fillers that we use on the back page of TAP right next to your mailing label. I would appreciate it very much if you would be on the lookout for any fillers in your home town papers that you feel would interest other readers. Send them to TAP c/o Tom Edison. PLEASE mark on the back of the filler the name of the publication that the filler came from and the date it appeared so we can give full credit.

THE '77 TAP T-SHIRTS ARE NOW HERE!!!

This year the shirts are black with white TAP logo. Since some of you readers bitched last year about the fact that the mail drop address of TAP was also on the T-shirts and you didn't want to become a walking advertisement for TAP's mail drop, we did NOT put TAP's address on the T-shirts this year. When you order a T-shirt, PLEASE specify size: S, M, L, XL. TAP T's cost the same as last year's: $4. How's that for a noninflationary price?

This issue marks the return of our "Letters From Readers" column. If you have a particular problem or you have run across an interesting item that you'd like to share with our readers, let us hear from you. I encourage readers who have solutions to other reader's problems to write to us with your suggestions. You never know when YOU may need help!

HAPPY BIRTHDAY TAP! Six years old on May 1, 1977.

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GET DOWN! by TOM EDISON

Over the last few months I have been searching for a new title for my old "Odds & Ends" column. I thought that I had finally found the perfect title, "Up Yours!", but I was wrong. From here on, my column title will be "Get Down!", taken from the lyric "Get down tonight" from the song "Smokin'" by that fantastic new rock group BOSTON. I've recently had the pleasure of seeing BOSTON in concert (that is if you can really "see" anything after all the joints that are S. O. P. at concerts!) and I heavily recommend their unbelievably great first album titled "BOSTON". For the uninitiated, BOSTON is the hottest new rock group presently around. In the history of rock there has never been an album that has ever sold so many so fast. I personally have not been so excited over a rock group since The Beatles. Every cut on the album is an engineering masterpiece! Get a copy and enjoy!!!

Many enterprising individuals are installing their own phone systems. By now, most TAP readers probably have a better working knowledge of just how a telephone works than the average Bell installer. (If you don't, you'd better get your ass moving and send for some of our back issues!) Although Pa Bell uses a 48 volt DC battery power supply, any power supply capable of producing 25 to 60 volts DC at about 60 ma can be used. Remember that Bell has the coil windings of the relays plus the resistance of the phone lines in series with their 48 volt supply. The total resistance of your phone and phone line is about 1,000 Ohms. Since current equals voltage over resistance, 48 volts divided by 1,000 ohms results in about 48 ma of current. Don't forget to load down your power supply line with a 1,000 ohm resistor. See fig. 1. This will insure that your phones operate with the correct amount of current through the mouthpiece.

Dial tone, busy signals, and audible ringback tones can be easily generated by using the Dual-Tone Oscillator described in our 3-Plan Sheet (50¢). The only problem is getting the damn phone to ring! I hate to admit it but sometimes Pa Bell is no dummy. They realized that sooner or later folks would try to hook up their own phones so in another feeble attempt to thwart these do-it-yourselfers, they used 20 cycle ringing voltage instead of the more common 60 cycle voltage used by all power companies. For those of you who aren't too clear on just how a phone ringer works and why it will NOT ring using 120 volt AC 60 cycle line voltage, let me offer the following primer. See fig. 2. The basic ringer consists of a two section induction coil connected in the center by a 1 MFD capacitor. This capacitor is necessary because the DC resistance of the coils is very small and if only the coils were across the phone line, the resulting current through them would be enough to trip the relays at the CO and put dial tone on your line. The capacitor blocks the DC current but passes the 20 cycle ringing voltage. The values for the capacitor and induction coil are specifically chosen to resonate at 20 cycles. At this resonant frequency the capacitive reactance of the capacitor is equal to and 180 degrees out of phase with the inductive reactance of the coils. Since these two reactances cancel each other, the only limiting factor on the current is the DC resistance of the coils. If you try to get your phones to ring by connecting them to the 120 volt AC 60 cycle power line, the inductive reactance of the coils at this frequency will be large enough to reduce the current to a value that is insufficient to operate the ringer.

There are two ways to get 20 cycle ringing voltage. The first way is to "liberate" a 20 cycle ringing generator from your friendly(?) neighborhood CO. The second and probably easier way is to build one yourself. All you need is an audio signal generator, an audio amplifier with a transformer output, and a 10 volt doorbell transformer. See fig. 3. Connect the 20 cycle output of the audio generator to the input of the audio amplifier. Connect the audio amplifier output transformer to the 10 volt low voltage secondary side of the doorbell transformer. The high voltage primary leads go to your phones. The 20 cycle output from the generator is amplified and applied to the doorbell transformer. This transformer, which is usually connected as a step down converting 120 volts to 10 volts for doorbell operation, is used here as a step up converting the 20 cycle low voltage output to about 70 volts which is usually enough to operate the ringer. The only problem with this system is that 20 cycles is a very low frequency and the output of an audio generator at this frequency is often low. 20 cycles is also the lowest frequency that most audio amplifiers will amplify so to boost up this signal I designed a circuit using two doorbell transformers. See fig. 4.

With this circuit the output from the audio amplifier is now connected to the two low voltage secondaries that are connected series aiding. The 48 volt power supply is connected between the primary winding outputs of the two transformers which are also connected series aiding. This doubles the output voltage to over 100 volts which is enough to ring the piss out of your phone ringers! Remember, for this circuit to operate properly, you must connect both primaries and secondaries series aiding. Since doorbell transformers are not phase marked, you must either play around "trial and error" method or you can phase mark them yourself using a voltmeter and a 1 1/2 volt battery. See fig. 5.

Connect the red and black voltmeter leads across the primary winding side of a transformer. MOMENTARILY touch the battery to the secondary leads of the transformer noting the polarity of the battery terminals. If the voltmeter pointer momentarily moves to the right, the red and black leads are connected correctly and a small dot should be put near the primary lead that was connected to the red lead of the voltmeter. A small dot should also be put near the secondary lead that was momentarily connected to the POSITIVE (+) side of the battery. This now tells you that a positive going voltage will induce a positive going voltage on the dotted primary. To connect these two transformers series aiding, connect the dotted secondary to the undotted secondary lead and the dotted primary lead to the battery and then to the undotted primary lead as shown in fig. 4.

To interrupt the ringing, either "liberate" an interrupter from the local CO or use the volume control on the amplifier or audio generator. You can also use a SPST switch in series with one of the leads going to the transformers.

Now, who says it's not easy to ring a telephone?

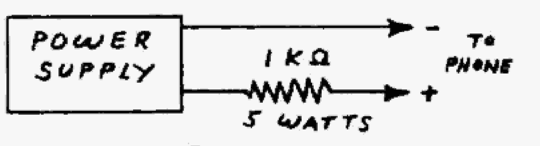


FIG. 1.

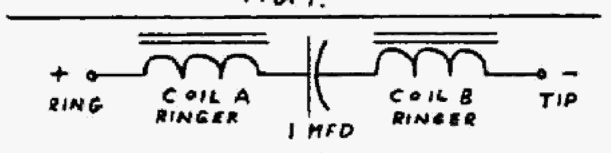


FIG. 2.

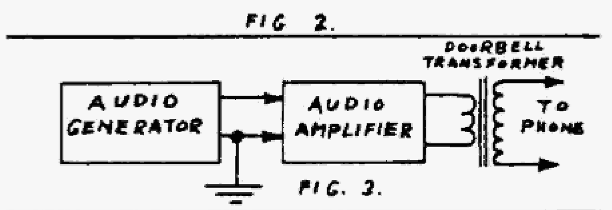


FIG. 3.

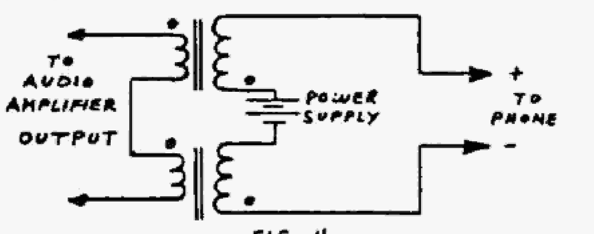


FIG. 4.

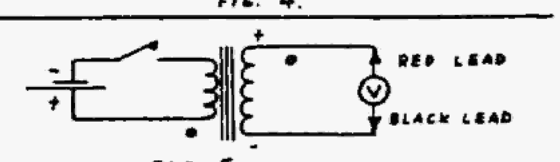


FIG. 5.

LETTERS FROM READERS

SECURITY OFFICE
THE PACIFIC TELEPHONE and TELEGRAPH COMPANY
177 East Colorado Blvd., Room 244
Pasadena, California 91105

NOTICE

Dear Telephone User:

On March 25, 1976, the Superior Court of California, County of Los Angeles, entered an injunction in favor of The Pacific Telephone and Telegraph Company and against Teletronics Company of America, and others. Your name appeared on a list (provided under Court order) of subscribers, or potential subscribers, to material previously published and distributed by Teletronics Company of America. Accordingly, for your protection and benefit, you are hereby given the following notice:

IT IS A VIOLATION OF STATE AND FEDERAL LAW TO USE ANY INSTRUMENT, DEVICE OR SCHEME TO OBTAIN ANY TELEPHONE SERVICE WITHOUT PAYMENT OF THE LAWFUL CHARGES THEREFOR. IT IS ALSO A CRIME TO PROVIDE INFORMATION TO ANY PERSON WHICH IS USEFUL FOR SUCH PURPOSE. IN MANY STATES, THE POSSESSION OF OR DISSEMINATION OF PLANS OR INSTRUCTIONS FOR SUCH DEVICES IS A CRIMINAL OFFENSE.

VIOLATIONS OF THESE LAWS ARE VIGOROUSLY INVESTIGATED AND PROSECUTED. ACCORDINGLY, YOU ARE URGED TO DESTROY ANY AND ALL WRITTEN MATERIAL OR DEVICE YOU MAY HAVE WHICH MAY VIOLATE ANY OF THESE LAWS.

THIS STATEMENT IS BEING SENT TO YOU BY ORDER OF THE SUPERIOR COURT OF CALIFORNIA, COUNTY OF LOS ANGELES.

The Pacific Telephone and Telegraph Company

THE PACIFIC TELEPHONE & TELEGRAPH CO.
177 EAST CERLORADO BLVD, ROOM 244
PASADENA, CALIFORNIA 91105

Dear Security Office:

I received a most unusual document from you folks today (copy enclosed).

Is this your idea of a bi-centennial joke? If so your humor is getting rather sick. I'm sure you wouldn't intentionally waste your money sending a Canadian a report on your problems, when you could spend it stopping people from making the most economical use of your telephone system. As a Canadian citizen I am informing you that I need no protection or benefits from the P.T. & T.Co. You may not realize it but U.S. State and Federal Law doesn't apply in Canada. You may "vigorously investigate" all you like, but you can't prosecute me for having any written material or device.

This statement is being sent to you on my own free will as an expression of my concern over the continual erosion of personal freedom in North America.

Beep, Bleep

Dear TAP,

I am a "road person" living in a van or trailer throughout the year so my problems of telephone service augmentation differs from those who are stationary enough to have access to "home" service. On the other hand, I do have regular access to pay phones, many of which are located in quite non-urban areas. Frequently the service lines to these boxes appear to be accessible to sharpened metal rods such as needles and old fashioned phonograph "needles". Do you have any ideas, for intellectual stimulation only, on how a person in my situation might theoretically help these remote telephone lines to be service tested without perturbing the sensitivities of the corporations involved?

I have further wondered if a person in my situation might be able to utilize a telephone answering device of the interrogatable type? I envision the chance of having stationary telephone service provided as an extra line into the home of a sympathetic, but very straight friend, and having the device, such as a PHONE-MATE 800 remote system (I read the Burstein-Applebee catalog), receive calls from friends, preferably without their being billed, and then my being able to make (preferably very low cost calls) remote connection to the PHONE-MATE or similarly from areas distant from its location. To tell the truth, I doubt if I could afford the system but my interest is somewhat more then theoretical.

Thank you for the fine work,
L. C.

Dear TAP,

I have a problem. At home I have dial type Trimline telephones. How can I fix the telephones so I can only receive calls and not be able to make any? (I'm refering to local calls.) On the Touch Tone telephones, if the Red and Green wires are reversed, this is possible-but I don't know how on the dial type.

I have someone staying at my place for a while and this person is a telephone phreak.

Keith

Dear TAP,

I live in a General Telephone area and since all long distance calls from a pay phone must go through an operator first, I have to use home phones. This however doesn't seem to work either in my area, since after I've beeped off and punched in the numbers, I get a recording which says, "I am sorry, but due to the current equipment conditions, we are unable to complete your call. Please hang up and try again."

My Blue Box uses a square wave oscillator and all the frequencies are within 2 Hz of the real ones. Has anyone else had the same problem? I would greatly appreciate any help you can give me.

Sincerly,
Indiana

NEW COLUMN !

COUNTER CONTROL by Agent MDA

THIS MONTH'S TOPIC: RENTING A NEW APARTMENT

Chairman Mao Tse-Tung had the right idea for dealing with the misery and suffering that was caused by China' parasitic landlord class - he had the uncooperative landlords hung by the neck from nearby lamp posts. People who have to rent apartments in Amerika still have to pay a huge and sometimes unbearable portion of their income, plus have to put up with the landlords oppressive rules and regulations. Until our own liberation happens there are a few tricks that can be used to frustrate the landlords.

When renting or leasing an apartment always use an alias name. Use the same alias with the utility companies if the utilities aren't included in the rent. You can receive your mail in your real name at your new apartment or at a rented P.O. Box or private mail receiving box. If you can't pay your rent or have to split on the lease, at least you won't suffer any consequences from the pigs and courts, who are the lackeys for the landlords and other ruling class oppressors.

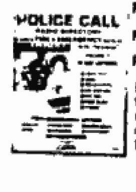
If the inquisitive landlord wants references, list some phony ones from out of state - as far away as possible. You can tell the parasite landlord that you never rented before because you lived with your parents or friends if he/she wants your previous landlords address.

One of the benefits of renting your apartment in an alias name is that you can pick up some freebies when you move. If the apartment is furnished you can take some of the better pieces along with you. If it's not furnished, rent some furniture and take off with that. Typewriters, TV's, tools, phone equipment, etc., can be rented or ordered under your alias name and sent to your alias rented address. If the business and/or landlord wants ID, have some phony ID ready to show them. You can bring along your lease when renting equipment and use your pig landlord as a personal reference. Another benefit is that should a bust ever come down at your pad you can say that you were just visiting or are staying temporarily with the person who rents the apartment.

Renting under an alias name gives one security, privacy, and the freedom to move whenever one wants without punishment. Keep your freedom to move by using an alias.

WE NEED INFO ON

Hear yourself on the radio (if you're careless, or unlucky)



POLICE CALL - POLICE, FIRE AND EMERGENCY RADIO DIRECTORY

Lists frequencies, call letters and number of base and mobile stations in specified areas. Latest 1975-'76 Edition. Shpg. wt. 1 lb.

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10 R 14888	9	California, Oregon, Washington	4.95

210 Lafayette Cat. No. 760

There are many other frequencies which are not listed in these books, such as those used by the Drug Enforcement Agency, FBI, Border Patrol, etc. which we'd like to know. Most are in the 168-170 mhz range. Get your ears on, good buddy!

Magnesium Pemoline (brand name Cylert) is a memory drug which has been finally released as a prescription item. But that's still a hassle. We'd like a simple recipe starting with available chemicals.

Spy camera - the Soviet FD3, manufactured at Riga, looks like a fine wristwatch, is practically undetectible, takes excellent pictures. Can be used for microfilming. Price? Availability?

Back Issues are 50¢ each, 40¢ each if you order 30 or more.
Subscriptions - 10 issues - US bulk rate $4.
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TAP T - shirts $4. Specify size: Small, Med., Large, X-Large.

TELEPHONE CATS

The Cat Who Called Long Distance

Abby, pet cat of Mr. and Mrs. Frank DeCaire of Detroit, knocked an upstairs extension off the hook while Mrs. DeCaire was using the downstairs phone. That left the line open for twenty hours, bringing a phone bill of $107.

The Cat Who Wanted Dinner

Meatball, pet cat of a butcher in Newark, N. J., grew hungry one day when the shop was closed. He knocked the telephone off its cradle, stuck his nose up against the mouthpiece and made what a telephone operator interpreted as groans of pain. The operator called police, who located the owner and got him to open the shop. The butcher gave Meatball his dinner, then told police he was certain that Meatball had planned the whole thing.

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Keasbey, N. J.

TELL IT LIKE IT IS By DUNAGIN

"What do they mean, we don't do anything about cost of living? . . . We gave ourselves a raise, didn't we?

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