

How to modify your Bell Touch Tone Phone to have 1633 cycle tones by The Magician

In issue 62 of TAP, I gave you information on the use of 1633 cycle tones for setting up toll free loop-arounds, mass conferencing, and becoming the information operator as well as applications with Autovon.

Now I will describe how to modify a standard Bell Touch Tone fone to have the extra four 1633 buttons. An excellent article on this subject appeared in the April, 1975 issue of the now defunct "TEL" magazine. The modification is very easy and requires only a SPDT toggle switch (I recommend a miniature type) and a little hookup wire. First, unscrew the screws on the bottom of the fone and remove the cover. You will see the Touch Tone pad on a supporting bracket. Loosen the two screws on either side of the pad and gently lift it from the supporting bracket being careful not to break the wires. The pad is enclosed in a clear, thin plastic snap case. Remove the top section of the case and put it aside. Remove the bottom section and allow it to rest on the wires leading to the Touch Tone pad.

The pad (bottom up) should look like the accompanying diagram. Locate the two toroid transformers that produce the Touch Tone frequencies. They are large and donut shaped (labeled 2597 AS in diagram). Remove the protector on the left one, if present. On the bottom edge of the pad about one inch down from the toroid transformers, you will see a three pole terminal strip (labeled 1 in diagram). On some Touch Tone fones, the terminal strips are replaced by a yellow-orange wire. If you have one of these, just cut the wire in the middle, strip both ends, and these will correspond to the normally used terminals. Locate the terminal on the left and separate the two pieces of 7777 metal, one on top on one on the bottom, being very careful not to break them off. Strip two one foot pieces of insulated wire and cut a little from both ends on each wire. Now take one and solder it to the bottom half of the separated terminals. Now take the other piece and solder it to the top half of the terminal, the top half being that side with the toroid transformers. Label the two wires "A" and "B" with pieces of tape with the top one being "A".

There should be two strips of five solder terminals, one on top and one on the bottom of the left toroid transformer. We are interested in the bottom one. The fourth terminal from the left (labeled 2 in diagram) is the tap for 1633 (Pa Bell uses "standardized" components for all Touch Tone encoders whether 4x4 or the normal 3x4, so the 1633 tap is there but not used). Cut another piece of wire (about one foot) and strip both ends. Solder one end of this wire to the 4th terminal, being careful that you get a good solder joint and that you are not touching any of the other terminals. Label this wire "C" and run wires "A", "B", and "C" through the bottom plastic case along with all the other wires. Replace the plastic protector on the toroid transformer (if there was one) and snap the plastic pad enclosing case back around the Touch Tone pad. Take the pad and put it back in position on its support bracket and tighten the two holding screws.

Next, the SPDT switch anywhere on the telephone where it will not get in the way of components inside the phone. A good place has been found to be the little compartment under the hook switch on the case, looking from the back. Now take your wire labeled "A" and solder it to the middle terminal of the SPDT switch. Now take the other wires "B" and "C" and solder them to the left and right side of the switch. Put the cover back on the fone and hook up the phone to your line. If all went well, you should have the normal 3x4 touch tones with the switch in one position and when flipped to the other position, your last column of 4 buttons becomes the 1633 tones! If it doesn't work, check your solder connections to the switch and make sure you have the correct wire connected to the middle terminal of the SPDT switch. The connection to the switch is the most commonly made mistake.

When placing a regular call, remember to use the regular 1477 tone instead of 1633 or you will get a reorder. If this happens enough, Pa Bell might send a repair man to see what is wrong with your line. If you have any questions, comments, etc., please feel free to write me, The Magician, c/o TAP.



SUMMER 1980 NO. 63

Table with 4 columns: 1633, 1477, 1477, 1477. Rows contain numbers 1-4 and 5-8.

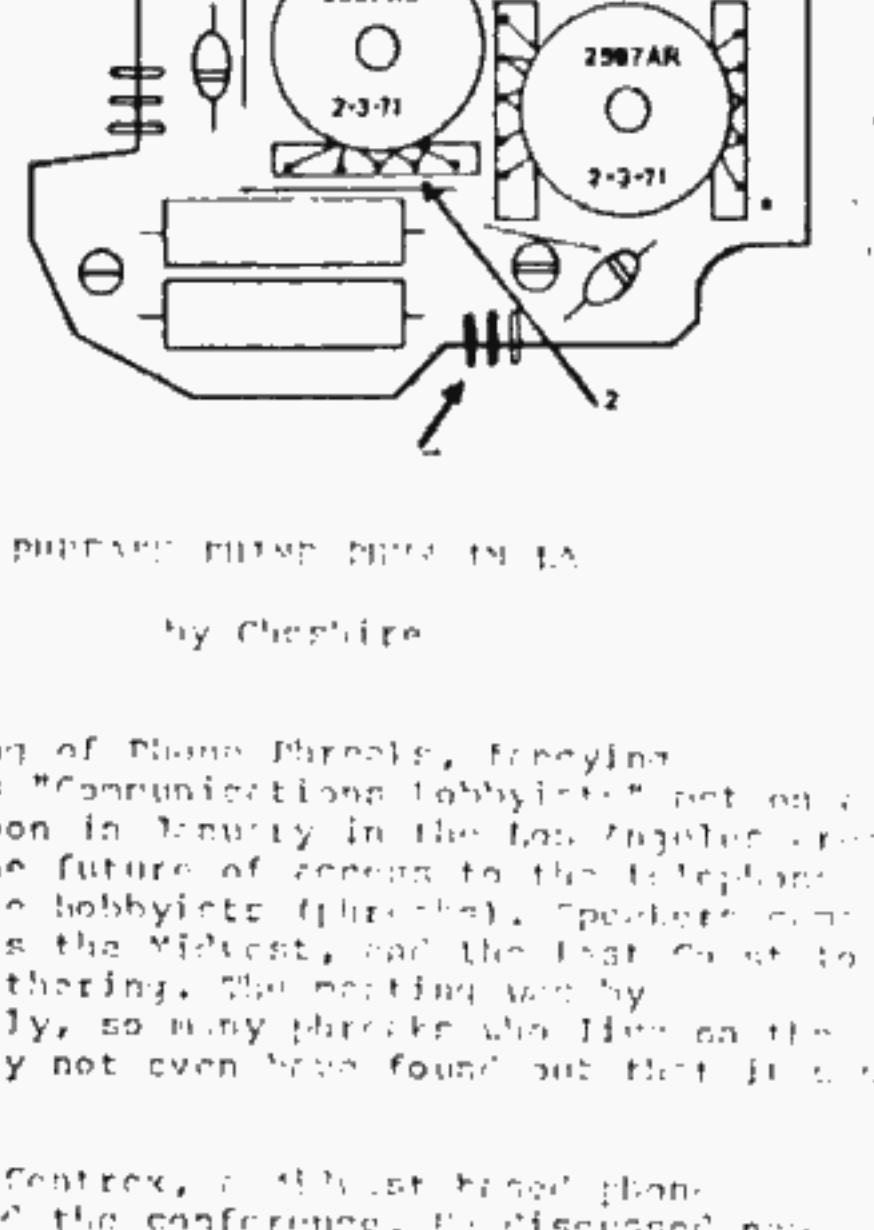


DIAGRAM FILMED FROM IN LA

by Chepline

A meeting of phone phreaks, modeling themselves as "Communications Lobbyists" met on a quiet afternoon in January in the Los Angeles area to discuss the future of the telephone network by the byproducts (phreaks). Speakers came from as far as the Midwest, and the East Coast to attend the gathering. The meeting was by invitation only, so many phreaks who live on the West coast may not even have found out that it held.

Captain Centrex, a fully automatic phone phreak, hosted the conference. He discussed new Bell switching computers which are putting the phreaks out of the "free fone" areas of switching around the world for a time (not setting the time back). Chepline's analysis of the New York City based TAP newsletter called attention to the world telecomm network and about equipment display at a telephone industry conference in Geneva, Switzerland. He mentioned that computers are taking over the telephone switching world, and the phreaks had better "get phreaky" if they still want to rule the (micro)world.

A few Bell system files were shown. The best of these was one called "The Bell System" which is highly recommended for those people interested in routing equipment. It doesn't get technical, but it is a pretty file. "Priority Initiative" is a file about the firm in New York Telephone switching center was also highly rated by the critical viewers in the audience. These files are available for civic groups, and electronic hobbyist clubs. Just call your local telephone company business office for information on how to borrow these files, but independent distributors, but there, or other files, for you as well.

LETTERS FROM READERS

2011 CRESCENT DRIVE • P.O. BOX 479 ALAMOGORDO NEW MEXICO 88310

I received your last issue of TAP. Thank you very much for your placement of my letter in the April. At least 12 new customers to date directly due to that ad, bringing me total 1700 subscribers and growing fast.

I included a copy of our last three issues. You may reprint any part of them but don't include a copy of our last three issues. From now on, I will insert a little blurb on TAP (free of charge) into my newsletter. I will also insert a little blurb on TAP into my newsletter. I will also insert a little blurb on TAP into my newsletter.

I have found that total satisfaction among the utilities has limited financial future. My main goal now is to sell "SPECIAL" I will get on my feet against the right utility to get my survival income. I will get on my feet against the right utility to get my survival income.

When placing a regular call, remember to use the regular 1477 tone instead of 1633 or you will get a reorder. If this happens enough, Pa Bell might send a repair man to see what is wrong with your line.

Well, take care. Have a good day. Keep on trucking.

Best Regards, John Williams, President

Many people visit the Big Apple each year. Many attend the various trade shows and conferences. Others, come to catch a Broadway show.

Chonysis is a small Greek restaurant with a host of mouth-watering tickets. Recently he purchased some airplane tickets with non-sufficient funds (NSF) checks.

Knowing a good opportunity when he saw it, a quick witted friend of mine was able to pick up a quick freelance. He had ordered an expensive microphone from Edmunds Scientific Company and had it billed to his Master Charge Card.

Chuck the Duck from California has discovered a new trick with airplane tickets. Recently he purchased some airplane tickets with non-sufficient funds (NSF) checks.

Here's another novel plane ticket scam from Chuck the Duck. He ordered an airplane and ordered a coast-to-coast round trip ticket.

WASHINGTON (AP) - A Nebraska senator's office aides aren't the only ones using to save a few bucks by using a "check" to pay for their bills.

Back Issues are 50¢ each. Issue #50 is \$1.00. Subscriptions are 10¢ each. US Bulk rate \$5.

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Foreign \$8. IMPORTANT! Include mailing label or Xerox copy when writing to TAP about your subscription.

Electronics Courses - 50¢ each. A - DC Basics, B - AC Basics, C - Phone Basics, D - Amplifiers.

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TAP "Cracked Bell" Patch - \$1.50. TAP Cassette Tape - \$3.00. Hear Capt Crunch, Al Bell, Joe Engressia, and Bell Security Chief John Doherty.

Send cash, check, or money order to: TAP, Room 603, 147 W. 42 St., NY 10036

"I always keep a supply of suitable hands in case I see a situation which I also keep hands in." W.C. Fields

NEW YORK (AP) - The American Telephone & Telegraph Co., citing the need for attorneys to work on mounting federal regulation, employs more full-time lawyers than the country's two largest law firms combined.

The largest private law firm is Chicago's Baker & McKenzie with 812 lawyers and New York's Shearman & Sterling with 388. The New Journal said.

Consumer Affairs New Jersey Bell Room 1506 540 Broad Street Newark, New Jersey 07101

NEWARK (AP) - New Jersey Bell has published a booklet that gives customers information about their rights to telephone privacy and how the company protects the privacy of its customers.

Entitled "Our Customers' Right to Telephone Privacy," the booklet details New Jersey Bell's policies in areas dealing with the privacy of telephone conversations, script-wrapping, wiretapping, monitoring and recording calls and calls, automatic answering and customers toll records and credit information.

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PETROBRAS, MICKELS AND QUARTERS are choking Findlay Ohio, pay phones. When the 30 Saudi Arabian students enrolled at Findlay College get harrassed, they call home, at the rate of \$0.65 for the first three minutes and \$3.20 for each additional minute. That means \$64.00 worth of change for the average 20 minute Saudi chat. The coinage keeps clogging the collection boxes on Findlay's 23 pay phones, knocking them out of order.

"Gentlemen, I just wanted to remind you that the home office will be monitoring this on closed-circuit TV, and the sales department is recording this for future use, and one of us has been a FBI agent."

W.C. Fields "A woman drove me to drink and I never had her the courtesy to leave her." W.C. Fields

154 W.C. FIELDS 1000 1900 THE CREDIT CARD OF THE FUTURE

Telephone privacy detailed in booklet

NEWARK (AP) - New Jersey Bell has published a booklet that gives customers information about their rights to telephone privacy and how the company protects the privacy of its customers.

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Talk back - even to Phone Co.

LETTERS ARE RECEIVED from practically every state with consumer complaints about phone bills. Some are so outrageous that they are being passed on to the public. Some are so outrageous that they are being passed on to the public.

After a three-year campaign initiated by a group of consumers, the Public Utility Commission, the Public Service Commission, the Legislative Council of the Massachusetts Department of Public Utilities, and the Massachusetts Department of Public Utilities, have agreed to a new plan which would increase public participation in the phone company's operations.

I contacted the Department of Public Utilities which will serve as a bill and if a bill is not passed on time the bill will be passed in 60 days in accordance with the terms of the agreement.

Consumers falling behind in bill payments may arrange for installment payments over a maximum 12-month period with no late charges.

Consumers who are unable to pay their bills because of illness, unemployment, or other reasons may apply for a hardship plan. The plan may be for a period of up to 12 months and may include a reduction in the amount of the bill.

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