

YIPL

FIGHT BACK! NO.13

SEPT.-OCT.'72

**THE YOUTH INTERNATIONAL
PARTY LINE**

READERS

Dear Yipl,
Please distribute this little gem of info immediately- "The National Security Agency monitors and records every trans-Atlantic telephone call." Source- Ramparts Aug. '72. Also- "Of course, all trans-Atlantic and trans-Pacific Telephone calls to or from the U.S. are tapped."

I don't know if the NSA would pass info on to the FBI about phone phreaks, but its certainly conceivable that they may.

It seems ITT is pushing Astrofood to school kids through a subsidiary, Continental Baking. I think we need to find out just how much ITT controls. If I get the time I'll go to MLPF&Fs and check Standard & Poors to see if I can get the scope of operations of this giant. J.R., Atlanta, Ga.

Dear YIPL,
Just a note to give you a few comments on the August issue(No. 12).

First, the Red Box: you might note that it is also important to provide a contact and make the line connections which will ground the tip side of the line when you beep the box. When a coin is placed in a pay phone, the mechanism grounds the tip side for about 1 second; this is what gets you dial tone on a so-called pre-pay phone. Then, when dealing with the operator for longer calls, the beeps tell her that you've paid, but it will look a little funny if the equipment doesn't register the dropping of coins. Both are necessary for a realistic simulation.

(The terms "tip" and "ring"(also "sleeve") come from the old manual switchboard days and describe the connections on a cord plug. These archaic terms are still used today: the tip side is the green wire and L1 if things are hooked up properly; the ring side of the line is the red wire and L2.)

Second: I have constructed several Blue Boxes using the Signetics NE 566 IC. I do not recommend it for several reasons: 1. It is designed to be a voltage-controlled oscillator and is very good in this role. It is so damned voltage sensitive that it needs a very stable, rock solid battery supply. Even with a zener regulator after the battery, which is getting rather silly, it is no good because of 2. its temperature sensitivity. Using mylar caps and metal-film resistors I got an 8% variation between 35°F. and 90°F., which means you have to re-tune the thing all the time. Finally, diode variations lead to unreal differences between tones that should be the same frequency. Best Wishes, T.V., Calif.

Many telephone services at your fingertips simply require the correct number to perform for you. These New York numbers all work in areas of N.Y., and many out-of-city and out-of-state readers will find they work in their neighborhood. We'll publish Los Angeles and San Francisco numbers if we receive them soon.

AREA CODE 212

324-0707 Sweep tone at high level. When comparing an oscilloscope trace of this tone to another made at an earlier date, detection of taps is possible.

DE2

HY9 9932 Silent line-Line will be held open while TW1 off hook without making noise.
XXX-9980 Dial your prefix(first 3 digits) and 9980 and you will get a 6000 cycle tone. It has a slight tendency toward being permanent, unless the phone hook is hit twice.

311

958 These numbers, when dialed, read back the number you are on. Great in apartment basements for finding your line, or unused free lines waiting to be connected.

660(wait for tone)09(wait)6(hang up)

660-your last 4 digits(wait)1(hang up) RING BACK

6606(wait)6(hang up)

Prefix-9901 Verification. Sound like Telco employee. or dial 0, ask for "260 official 0-1" and get the same without even paying a message unit. By the way, don't use 260, use your own prefix. When verifying operator comes on say, "Verify such and such please."

New Yorkers are up in arms against the Great Subway Ripoff. It seems people are buying the standard electrical knockout boxes at hardware stores, removing the knockouts, and then filing down the notch where it was attached. Then they proceed to use them as tokens in turnstiles. It turns out that they work in turnstiles almost anywhere in N.Y. Exceptions are Penn Station. If the knockout falls through the mechanism, they follow it with a real token and walk right through. The 40¢ boxes contain 17 knockouts, each worth 35¢ when filed a bit. YIPL readers are urged to watch out for these people, as they wipe their fingerprints off the slugs when they drop them.

Readers who missed the Phirst International PHONE PHREAK CONVENTION will be able to read about it in the latest issue of Ramparts Magazine, and in Telephony, the magazine of the telephone industry. The Telephony article, though somewhat biased, plugged our address for company execs, advising them not to reveal identities when writing us. Cute, huh? Now we've got AT&T's execs reading YIPL! However, we applaud Telephony on the ridiculous accuracy of their name, and salute their new readers with finger upheld!

MORE BOX PLANS

Correction- The 39K resistor used for setting the gain of the amplifier in last month's issue is incorrect. It should be between 5 and 6 thousand ohms in value. Too large a value will cause a buzz in the amplifier from too much gain.

Let's clear up a few details in last month's Blue Box construction plans. For those of you without a lot of test equipment, this might help you a bit.

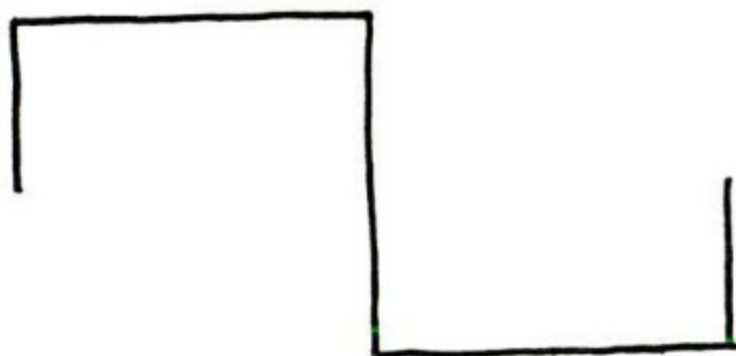
1- The Twin T oscillator has maximum stability for voltage and temperature changes when it is tuned at least 5% above the initial oscillating frequency of the oscillator. Otherwise, a voltage drop of a volt or temperature drop of 20 degrees might turn it off. For example, tune in your resistor or capacitor values of the 1100 cycle oscillator so that it starts oscillating at about 1000 or 1050 cycles, and tune it up to 1100. The starting point of oscillation is always the purest sine wave, but the oscillator is on the verge of turning off, so a slight distortion of the wave can and must be tolerated in this circuit.

2- Tuning up to a touch tone phone(frequencies given last month) will result in greater than 1% accuracy. A hammond organ should be even better. The MF receivers that process your calls will respond to an error of 30 cycles or greater with a reorder signal. That's a wide margin, and it varies from place to place. So if your tones come closer than 30 cycles to the correct ones, you will have better success and less of "I'm sorry, your call did not go thru".

3- Repeat-Call only from pay phones, never from your home phone! An exception is to call from a phone that will probably never be boxed on again. The phone company has records of 800 calls and 555-1212 calls that are abnormally long, and they have been known to investigate.

4- If your call doesn't go thru, it may be your tuning, an excess of distortion(tones will sound very harsh), too loud or soft a tone, extra noise leaking into the phone, and most important, an overload in Bell's circuits that night from all the other blue-boxers making calls. Also remember that if you initially dial and beep off a 800 or information number in the area code you will be boxing, do not key in the area code, just the 7 digits(7D).

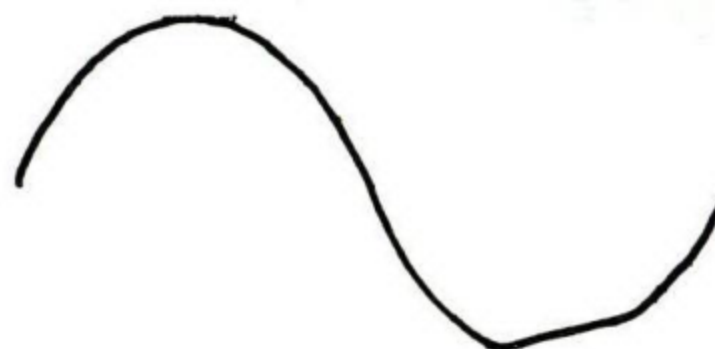
5- The diodes are non-critical, small signal units and don't have to be 1N914. The transistors are small signal NPN type with HFE of 50 or more. The transistors mentioned, and many others also will all work perfectly.



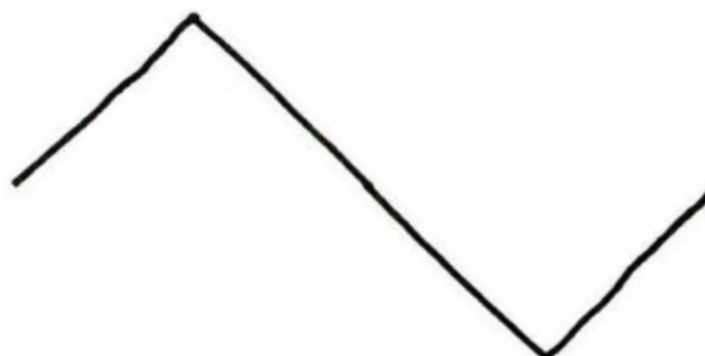
A square wave, generated by an on-off type of device such as a multivibrator, has a lot of harmonics, sounds harsh and is not as effective as a sine wave, though often easier to make.



A pure sine wave, from a Twin T oscillator, and from a touch tone phone, is the best waveshape for activating Western Electric's brain.



A Twin T oscillator slightly distorted, because it is tuned 5% higher than its initial frequency of oscillation. Its stability is excellent. It's dynamite for boxing.



A triangle wave, generated by the Signetics 566 IC(Integrated Circuit). Because it isn't a pure sine wave, it sounds harsh because it contains harmonics, and it doesn't work as well, though it does work.



This is a sine wave with its peaks flattened (or cut off). It causes distortion, harshness, and trouble. A telephone earpiece has a dual diode connected across the terminals in newer units, and if the signal level is too great the diodes absorb the peaks of the sine wave, thus causing the waveform to distort like this. Remove the diode before using.

DIALING OVERSEAS CALLS

COUNTRY CODES

ADEN	969	LAOS	856
AFGHANISTAN	93	LEBANON	961
ALBANIA	405	LIBERIA	231
ALGERIA	21	LIBYA	21
AMERICAN SAMOA	684	LUXEMBURG	352
ANGOLA	244	MACAO	853
ARGENTINA	54	MALAGASY	261
AUSTRALIA	61	MALAWI	265
AUSTRIA	43	MALAYSIA	60
BAHRAIN ISLANDS	973	MAURITANIA	222
BASUTOLAND	266	MALI	223
BECHUANALAND	267	MALTA	356
BELGIUM	32	MEXICO	1
BOLIVIA	591	MONGOLIA	854
BRAZIL	55	MOROCCO	212
BRITISH GUIANA	592	MOZAMBIQUE	258
BRITISH SOLOMON IS.	677	NEPAL	977
BULGARIA	403	NETHERLANDS	31
BURMA	95	NEW CALEDONIA	687
BURUNDI	257	NEW HEBRIDES	678
CAMBODIA	855	NEW ZEALAND	64
CANADA	1	NIGER	227
CAPE VERDE IS.	238	NIGERIA	234
CENTRAL AMERICA	1	NORTH RHODESIA	260
CEYLON	94	NORWAY	47
CHANNEL ISLANDS	355	NRUE	688
CHILE	56	PAKISTAN	92
COLUMBIA	57	PARAGUAY	595
COMORES	269	PERU	596
COOK ISLAND	685	PHILIPPINES	63
CUBA	53	POLAND	48
CYPRUS	357	PORTUGAL	351
CZECHOSLOVAKIA	42	PORTUGUESE GUINEA	245
DAHOMEY	229	PORTUGUESE TIMOR	672
DENMARK	45	REUNION	262
ECUADOR	593	ROMANIA	404
EGYPT	20	ST. THOMAS & PRINCE	239
ETHIOPIA	251	SENEGAL	221
FIJI ISLANDS	679	SOUTH RHODESIA	263
FINLAND	401	SOUTH WEST AFRICA	264
FRENCH GUIANA	594	SPAIN	34
FRENCH POLYNESIA	689	SUMALI REP.	252
FRENCH SOMALILAND	253	SURINAM	597
GAMBIA	220	SAUDI ARABIA	966
GHANA	233	SWAZILAND	268
GIBRALTAR	350	SWEDEN	46
GREAT BRITAIN	44	SWITZERLAND	41
GREECE	30	SYRIA	963
GUAM	682	TAIWAN	86
GUINEA	224	TANZANIA	255
HADRAMANT	975	THAILAND	66
HONG KONG	852	TOGOLESE REP.	228
HUNGARY	402	TONGA	676
ICELAND	354	TUNISIA	21
INDIA	91	TURKEY	36
INDONESIA	62	UGANDA	256
IRAN	98	USA	1
IRAQ	964	USSR	7
IRELAND	353	UPPER VOLTA	226
ISRAEL	972	URUGUAY	598
ITALY	39	VENEZUELA	58
IVORY COAST	225	VIETNAM	84
JAPAN	81	WESTERN SAMOA	683
JORDAN	962	WEST GERMANY	49
KENYA	254	YEMEN	967
KOREA	82	YUGOSLAVIA	38
KUWAIT	965		

The procedures for calling overseas are more involved than normal long-distance calls, but they are infinitely far out and become easy with a little practice. We have here a list of all the countries with telephone service and their associated codes. A overseas number consists of country code, city code, and number. The number can be 7 digits, or 6,5, or even 4 digits.

Once you have beeped off your free number, whether information or a Wats line(800), you must route to an international center. Seven of these exist in the U.S.

182 White Plains
183 New York
184 Pittsburgh
185 Jacksonville
186 Oakland
187 Denver
188 Montreal

The international center for Central America is Jacksonville, for South America and part of Europe and Asia is New York, but if you don't know, simply pulse KP 011 XXX ST. You will then receive an international dial tone. The XXX is the derived country code. If the country code has 3 digits, they are the XXX. If the country has a 2 digit code, key in 0XX or 1XX, XX being the country code. The 0 is for satellite, 1 for cable. Sometimes the satellite is busy, and sometimes the country you want is only available by cable. For a single digit country code, key in 0X1 or 1X1. Russia is 071 or 171. The 011 above is an international access code, and will automatically route you to the proper international center.

When you hear international dial tone, key in KP XXX,city code, and number, and ST. Learn to do this in less than 7 seconds. We don't want to waste time on those valuable TASI channels! Often the city code of the largest city is 1, but you can find out by keying KPXXX 121 ST and asking the inward operator for the city code, or KP XXX 131 ST or KP XXX 141 ST for the information operator for the same info. Say,"Overseas city code for Hamburg, please.", or wherever you want.

An international dial tone is a good test for your box's volume. The KP signal should be just loud enough to wipe it out.

If after receiving international dial tone, you key numbers and blow it, you can try again by beeping off, but remember that you must re-key access code to get another international center sender. So each time you beep, key KP011XXXST, and continue from there. As in regular calls, once you get a connection and hang up on the called party, you must hang up phone, and redial to call again. If you try to beep off a call that has been completed, and redial, you will get a local dial tone within 20 seconds of beeping 2600 cycles.

If talk is cheap, blame it on YIPL!

More information on overseas calling will be up-coming soon as our research and development team sends it in for publication. Remember, you are the source of our information.

BACK ISSUES 50¢

- 1- Extension phones, conference switches
- 2- Blue Box Story and Abbie on ripoffs
- 3- Telecommand story
- 4- Pay Phone Issue
- 5- Blue Box 1
- 6- Blue Box 2 ➤ Now obsolete
- 7- Tuning your organ
- 8- 1972 Credit Card Code
- 9 ➤ Super duper project (See issue 11)
- 10 ➤ Super duper project (See issue 11)
- 11- Receive free long distance calls
- 12- Blue Box plans
- 13- International calls (this issue)

FACT SHEETS 25¢

How not to get caught making credit card calls
Receiving free long distance calls

YIPL, c/o TAP, room 418, 152 W. 42 St.

YIPL, ROOM 504, 152 W. 42 ST., NEW YORK, N.Y. 10036

- ☐ SUBSCRIPTION \$4 First class and Canada
- ☐ BACK ISSUES 50¢ each \$6
- ☐ ANTI-BELL BUTTON 50¢ each 10/\$3.00 Foreign \$7
- ☐ ADDRESS CHANGE- PLEASE INCLUDE OLD ADDRESS

NAME

STREET & APT.#

CITY

STATE

ZIP

OLD ADDRESS-STREET

CITY

STATE

ZIP

NUMBERS OF DESIRED BACK ISSUES- LIST HERE



Above is the Bell System's new "musical keyboard." Insert shows the digits of telephone numbers in musical notation, just as they are sent across country.

Playing a tune for a telephone number

Before you talk over some of the new Bell System long distance circuits, your operator presses keys like those shown above, one for each digit in the number of the telephone you are calling. Each key sends out a pair of tones, literally setting the number to music.

In the community you are calling, these tones activate the dial telephone system, to give you the number you want. It is as if the operator reached across the country and dialed the number for you.

This system, one of the newest developments of Bell Telephone Laboratories, is already in use on hundreds of long distance lines radiating from Chicago, Cleveland, New York, Oakland and Philadelphia, and between a number of other communities.

It will be extended steadily in other parts of the country—a growing example of the way Bell Telephone Laboratories are ever finding new ways to give you better, faster telephone service.

BELL TELEPHONE LABORATORIES

Exploring and inventing, devising and perfecting, for continued improvements and economies in telephone service



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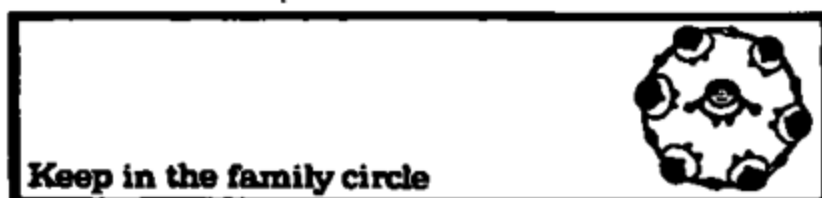
TIME TO RENEW?

Next to your address there should be a number. This is the first issue you received. If it's a 1 or a 2, it's time to renew. Renewing promptly will prevent you from missing a single issue, as they say.



USE THE PHONE

TO:



USE THE PHONE

keep in touch with your family and friends—give them a call tonight

USE THE PHONE