



NOVEMBER '73

TECHNOLOGICAL AMERICAN PARTY

The Energy Crisis was finally spotlighted this month by the Pres to the American Public. It was "suggested" to the people that cutting down highway speeds, shortening school hours (good news in some respects), turning off your home and office lights when unneeded, and lowering the thermostat would give us a savings of considerable magnitude on fuel consumption. The second part of project Independence would be to develop within this country a source of energy which would free us from "reliance on a foreign enemy... er, energy"...

It seems that this country can only be moved ahead in times of crisis, so instead of preventative structuring of our life systems we get problematic solutions. That is to say we do not really rid ourselves of the disease, we only change its name and place and again wait for a crisis.

Take for instance Gas consumption. A better way to take the same amount of fuel and stretch its potential use would be to expend scientific skills in the development of a gasoline engine with better mileage. Almost all the American car manufacturers have reduced amounts of miles per gallon this year in their cars. And why not? Along with the interests they stand only to win.

The Pres also said cars usually only have one person in them. Anyone who's stood out on the road for hours, freezing their ass off could have told us that. Us hitch-hikers are probably going to be blamed for the high speeds that frightened motorists travel at (the same mentality that blames phone phreaks for rising phone rates). We know that the American People are being fed advertisements that make us CONSUME. But you didn't really expect Pres to get up there and admit that our entire economy (that means his friends' profits) depends upon a continuous increase in CONSUMPTION, which is what caused the whole mess. Buy, Buy, Buy, Throw Away, Throw Away, Oops, better conserve, we'll raise our prices so don't worry!

The same could be said for all gas appliances, and even manufacturers of electric lights. Couldn't a low consumption high-brightness bulb be immediately produced? You bet your blue box! But the most recent trend among the Science communities is to use their abilities in developing either weapons of destruction, or useless niceities like better floor wax, instant cheese dip or pocket calculators (for adding up all your purchases). Let's pray that before we start unrestricted strip mining and other rapings we can get maximum output from already existing fuels and decrease our consumption by using decent mass transit & sharing with others. Three color TV's per family! Now is the time for Bell Labs to come forward and tell us what the fuck they've been puttering around with that would help us instead of lowering AT&T's construction costs and boosting profits.

The Electric and Gas companies are huge monopolies who have the nerve to sell us the Sun's energy. They have free reign over the rates they charge, the quality of the smoke we're forced to breathe and the oceans and lakes they conveniently dump their wastes into. And don't forget that they plan to risk all our lives by installing unsafe nuclear power plants in the midst of population centers. We'll probably find out sooner or later of the corruption & payoffs that allow the Atomic Energy Commission to ignore (Continued)



BELL LABS:
Just what the hell have they been doing since 1953?
(Nat. Geographic Photo)

Bell Solar Battery Uses Silicon to Turn Sunlight into Electricity

BACK ISSUES-50¢

- 1- Extensions, 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(Issue 12)
- 7- Tuning your organ
- 8- Credit card calls and 1972 code
- 9- Super Duper Project (See issue 11)
- 10-
- 11- Receiving long distance calls free
- 12- Blue Box Plans
- 13- International Calls & Box Plans
- 14- International Calls & AT&T Papers
- 15- 1973 Credit Code, T Network
- 16- Red Box Plans

FACT SHEETS-25¢

- 1. New Credit Card Fact Sheet (Code and How to do it Safely)
- 2. Receiving Long Distance Calls Free (Gen. Tel. version of Issue 11)
- Displayed Red Box - 15¢
- 2600 Whistle Perfection - 15¢
- Dual Tone Oscillator with Interrupter - 15¢
- List of Destructory Assistance Topics - Free
- Schedule from 2nd Int'l Phreak Convention - Free

- 17- Red Box, Line Relay
- 18- Call Stopper
- 19- Snoop Light
- 20- Cheese Box
- 21- Automatic Phone Tap
- 22- Answeroo



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our health and safety, but in the meantime this is comforting to know that these smart machines cost money, and we can cut down their revenue and put it to better purposes.

Power breakers have been around a long time, but on such a small scale that the companies haven't done much to stop it. That will probably change, but they move like turtles and won't be able to do anything on a large scale for years. By then we'll be ten more steps ahead. Besides, God is on our side.

Pay strict attention to the safety rules. We all know that strict obedience to the rules is the only way to get power anyway. More power to you!

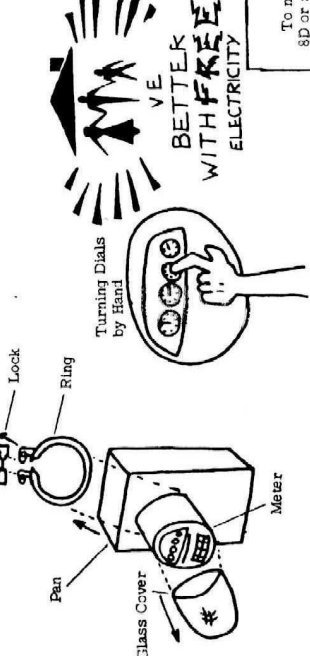
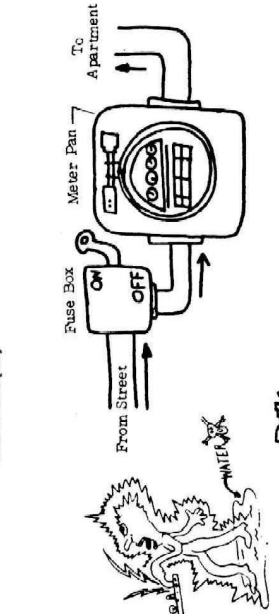
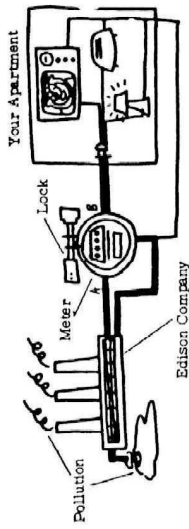
Electricity works on the same basic principle in all types of meters around the country, though the meters may look slightly different. First a word about safety.

You will be working with 110 volts like any normal outlet in your home, but you will be closer to that current than if you were plugging in a toaster. So you must know how to be careful. 110 volts can kill you. TAP guarantees that if you stand in a puddle of water, 110 volts will kill you. The same goes for working with wet or sweat-soaked hands. Remember the bathtub in Goldfinger? When you work on electrical lines, wear gloves. If you are too burned out by gloves, at least wear rubber-soled shoes. And keep dry! Don't stand on a damp floor! If you use your head and work slowly, keeping safety in mind, you will not get shocked. It may seem like a dangerous expedition but it's actually simple to do a lot of fun. So locate your electric meter, which is usually found in the basement of apartment buildings, or on the outside of houses, put on your gloves and rubbers and get to work. Stand on a rubber mat if you're standing on dirt or dampness. If your electrical meter is among others and isn't clearly marked for your apartment, have a friend turn all your lights on and off simultaneously and then look for the meter that starts and stops. You can tell the meter is starting by the little rotating wheel in front that turns the gears of the little pointer. When you've located your meter, how about jumping it? That will allow the meter down to a crawl, even if you use a lot of electricity, which of course conservation-minded TAPPERS don't do, nor do they rip off, ah, blah, blah, blah. This requires removing the meter. The meter simply pulls out with a little wiggling, but it is often than not clamped on tight with a ring of metal, which unscrews with a screwdriver. Sometimes an additional lock is put on the ring, called a rollersmith lock. You can't cut a rollersmith lock, but you can make a "key" for it and take it off. The insert shows how to pick this lock.

Remove the ring by bending it slightly, then grab the meter with both hands and pull it straight out. The meter has prongs which fit into sockets on the wall panel. The electricity flows from one socket, into the meter, and out of the meter into the socket which leads to your home. Now that the meter is out the electricity is turned off. Now we have many choices open to us. We can:

- 1- Turn the meter pointers backwards to some point.
- 2- Break the meter, or jam it up.
- 3- Bypass the meter with a jumper so the meter doesn't move.
- 4- Bypass the meter with a thin jumper so the meter moves slower.
- 5- Turn the electricity on if it had been turned off.

TURNING BACK METER
This involves opening the meter case and moving the little dials with your hand. Often there will be a small wire with a lead seal that you have to break in order to open the case. Just cut it off, they never check anyway. Then unscrew the glass case one-eighth of a turn, and remove the glass, turn the dials, and close it back up. Be sure to move the dials back to an actual number. This is a tricky thing to do, and you also have to make sure that you don't get your meter read with the reading less than it was before. If they see you used negative electricity they may have a few questions for you. Get to know when the meter reader comes, how often and on what dates. After



BETTER WITH FREE ELECTRICITY

he comes, read the meter, and turn it back to that point right before his next visit. Add a few token kilowatt-hours so they look like you went on a trip and left a clock on. Put the meter, ring, and a little dirt back on to make it look lonely. Be sure to push the meter in straight and firm.

BREAKING OR JAMMING METER

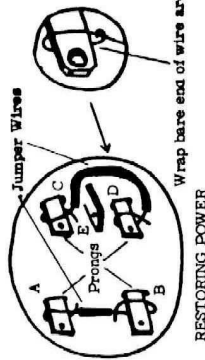
This is dangerous because you can't control it precisely. Rather, you get an anarchistic situation which may result in the meter burning up and the meter reader noticing it. Jamming the meter is accomplished by opening up the case and bending or rusting a few gears to make it stop or to slow down. Stopping the meter isn't recommended because almost everybody's meter is moving continuously and it may look suspicious if your meter is completely dead. But physically jamming the meter usually will stop it completely rather than slow it down. A better way to slow it down is to install a shunt wire inside the meter. We'll show how it's done once we get a few meters from the readers to do research on. Meanwhile you can shunt the meter outside of it's case.

SHUNTING THE METER

If we look at a diagram of how the electricity is fed thru the meter to your home, we see that a jumper wire from point A to point B could carry electricity around the meter. Thus, it would be free. Since the wires in and around the meter are thick, our jumper wire will have to be thick to be able to carry all the electricity, so that none goes thru the meter. A piece of insulated #14 wire will do the trick.

Remove your meter from the meter pan. The back of the meter will have prongs which plug into sockets in the pan. Take a 9" piece of insulated solid copper wire, #14 or #16. Wrap it around the proper terminals thereby bypassing the meter. In our N.Y. example with a 3-wire Westinghouse meter (for places with both 110 and 220 volts), the proper terminals are the two vertically-oriented pairs. There is a horizontal ground terminal, don't connect on to it with the jumpers. The jumpers may have to go to different terminals on other different types of meters, and you can find out the proper terminals with a simple ohmmeter (\$4 or less at electronics stores). Since the proper terminals to be shunted already have internal shunts, the ohmmeter will measure less than 1 ohm, between those terminals that are to be shunted by you. That means the meter will do the same thing as when you touch the two meter wires together when you hit the correct terminals to be shunted. In our example, jumping pins A and B will give you free 110, jumping pins C and D will give free 220. Pin E is ground, and don't jump that to anything. When installing jumper wires, strip off the insulation 2" from the end and wrap it around the prong as shown. The wire must be wrapped around the part of the prong near the plastic base of the meter or it won't fit back into the sockets in the meter pan. Be sure the bare part of the wire touches only the proper prongs and stays clear of all others. Now, carefully fit the prongs into the sockets and firmly push the meter into the pan. It may not go flush, but push it in and put the ring over the meter and screw it shut. Forget the lock if you removed one.

What will happen now is that the shunt will bypass some of the electricity around your meter, but not all. The meter wires (#16) will only bypass some of the electricity. The meter will run slower than it normally would. The larger wires (#14 or #12) will stop the meter almost completely. This is a mixed blessing, because it looks suspicious and should only be done in fiscal emergencies. We'll let you know better and easier ways to bypass meters as soon as we hear from you about them.



RESTORING POWER

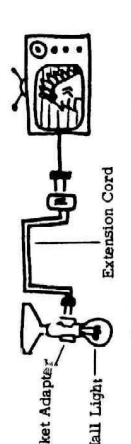
TWO ways of commonly cutting off your electricity are removing your meter (Yeal) or by slipping little rubber sleeves over the prongs of the meter, thus preventing the prongs from contacting the sockets.



To get around these methods is easy. Just put in another meter, or jump the socket with wires. If you do this, be prepared for a visit from an Electric Co. representative. Be ignorant but nice. "A jumper? What the heck is a jumper?" Or you can jump the socket from behind the meter pan so that even if the meter is gone they won't see the wires. This will hopefully be explained in a future issue.

To remove the plastic sleeves from the meter prongs is easy, but they'll notice (maybe) that your meter reading is going up and your wheel is moving, so you should install jumpers too. In fact, you can leave on the sleeves and very carefully install the jumpers so the meter is dead but the jumpers are live. That may require some work, though. ANY IDEAS?

Or, you can do the safest trip of all, and that's to steal it from your landlord. Only do this if you have your landlord, but of course don't do it anyway. Just tap the wires from a ball light or an outside light and run them into your apartment. The maximum current you can use is then determined by the fuse of the hall or outside light circuit. If you use too much current, the fuse will blow and you'll have to wait until it's replaced to get electricity from that circuit. When wiring outside, use thick, weatherproof cable.

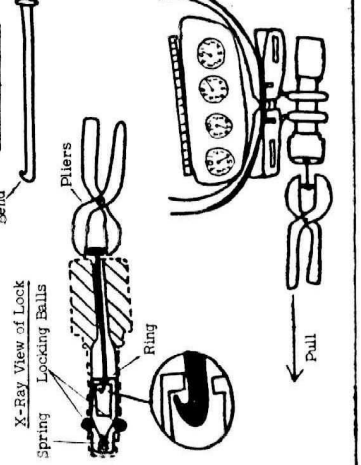


All power wiring must be done intelligently. Otherwise you can have a fire. So here is how to figure your current demands: Each appliance you use eats up a certain number of watts. 110 volt appliances use 1 amp (or ampere) for every 100 watts of power. 220 volt appliances use 1/2 amp for every 100 watts. You'll usually be using 110 volts, so obtain #16 wire for handling up to 1000 watts, and #14 wire for 1000 watts or more. Hardware stores will have all the plugs and sockets and wire you need with people who can show you how to hook it up.

Hide all tap jobs by routing the wires through walls or above ceilings. Camouflaging sometimes helps. If you tap off of a ball light, be sure to replace the bulb each time it blows. If someone else does it they may see your handwork. Whenever you do a tap job, pay attention to safety rules. If possible, turn off the circuit while you're working on it. Find the switch or the fuse that turns it off. If you must work on it while it's live, get a friend who knows how. It's dangerous, and one must use insulated tools and have enough dexterity to be able to work with gloves on. We suggest you find the fuse and have someone hold a flashlight. If anyone asks, you're just changing the bulb.

PICKING THE LOCK

To make a key for a rollersmith lock, use a 2" nail, size 8D or slightly larger, and bend up the tip a little as shown. You may have to tap it with a hammer to insert it a full inch and an eighth. Then use the bent tip to hook one of the rings inside. Pull the nail out very slowly and powerfully with a big pliers or vise-grips. The spring in the lock is very hard and it will slip out a few times before you get it, but when it does the lock will open up. If you can't get it, just get a hacksaw and cut the ring.



Special thanks to George Metesky's double- DS

Dear TAP,

If anyone there is into short wave and has a receiver that can tune 17,436.5 Kc. (ITT's frequency) for facsimile transmission, you can intercept all sorts of memos, schematics, etc., by hooking it up to a Xerox 400 Telecopier (rents for \$50. a month).

-ML, PENNSYLVANIA-

Dear TAP,

Two good books on sabotage: Beasty Business, (computer sabotage) \$1.95 British Book Center, Ecotage, (general sabotage), \$1.95 Pocket Books. Also try Laissez-Faire Books, 208 Mercer St., N. Y., N. Y.

-D., NY-

RUMOR DEPT.

We've heard that a certain Judge has declared that Phone Phreaks are only practicing "Malicious mischief" and can not be fined. We also heard that he has declared all fines already paid null and void and returned to Phreaks. Has anyone heard this, and if so, would you send us what you can? (Newspaper articles, names of radio stations, etc.)

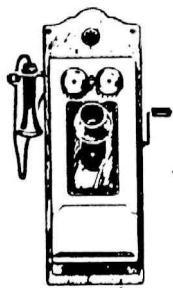
DEFENSE FUND

Abbie's defense fund is doing very poorly, probably because of a few myths in peoples minds. One is that the new drug law in N. Y. went into effect after he was busted, so the penalties won't be that bad. But the penalty for cocaine dealing in Abbie's case is MINIMUM 15 years before parole. Maximum (and he may get it) is life. They didn't make that penalty any harsher with the new law, because cocaine was already classed with heroin. To a judge, all white powders are just as dangerous. Well, that's one myth, but the other is that supposedly Abbie ripped off the movement. It's not surprising that our peers like to condemn prominent people, but Abbie is, in the minds of us at TAP, different. He did articles for us, gave us ideas (like raising our price to \$2 so we'd stop losing money), helped us (by helping to get Captain Crunch in touch with us) and contributed financially. He helped us more than any other single person outside of TAP. Without asking for his name on articles, without asking for publicity or thanks, without expecting anything in return. If you dig what we print, thank Abbie. Isn't it refreshing to hear something nice about Abbie from people who know him? If you believe us, please send some money to Abbie Hoffman & Friends Defense Fund, 640 Broadway, N. Y., N. Y. 10012. Don't send cash. Thanks.

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TAP, ROOM 504, 152 W. 42 ST., N.Y., N.Y. 10036



HELP IS NEEDED

We need more information on the following topics for upcoming articles in TAP.

Getting Free Gas and Electricity- What types of meters do you have in your area, and can they catch on to you?

Magnets- Have you heard any weird uses for magnets besides on bulletin boards?

Locks- Code books, picking, drilling, tampering, etc.

Vending Machines- Anything!

Overseas Phone Phreaking- From or to overseas places.

Chemistry- Use your imagination.

Automatic Blue Boxes- Can you believe no one's sent it?

Dear TAP,

I am enclosing this little thought; though I am sure that no one would ever use it for illegal purposes, it is an interesting theory. In many of the older electric co. installations I am told that the wheel they used was of a ferrous alloy, and I have heard of people who, at peak electrical periods (in evenings) attached a small but powerful magnet to either the top or the sides of the electrical meter and actually slowed the meter down so that they were in effect receiving free electricity. Unfortunately the newer meters have aluminum wheels, however the motors which turn them must still be affected by magnetism (and could possibly be slowed?).

Dear TAP,

The part in your article that reads "Women are especially urged to take the course as they usually have a fear of electrical concepts..." should read something like "as they usually have been strongly discouraged from learning electrical concepts." The problem is not women's timidity, but sex-role stereotyping. But it's good you mentioned women in particular.

-S., D. C. -

Note: We should also mention that people of both sexes are strongly discouraged from learning electronics so as to keep us technologically naive and sell us more expensive garbage. Also, of course, to prevent us from tampering with the system. And to keep people on different levels. Course B, Alternating Current is ready. The correspondence courses are 50¢ per course (free if you can't afford it). We think that after reading 6 of the courses you should be able to build any project that we've published. We're trying to make it a simple and fast way to learn to build electronics. The first course is Basic Electricity Course A.