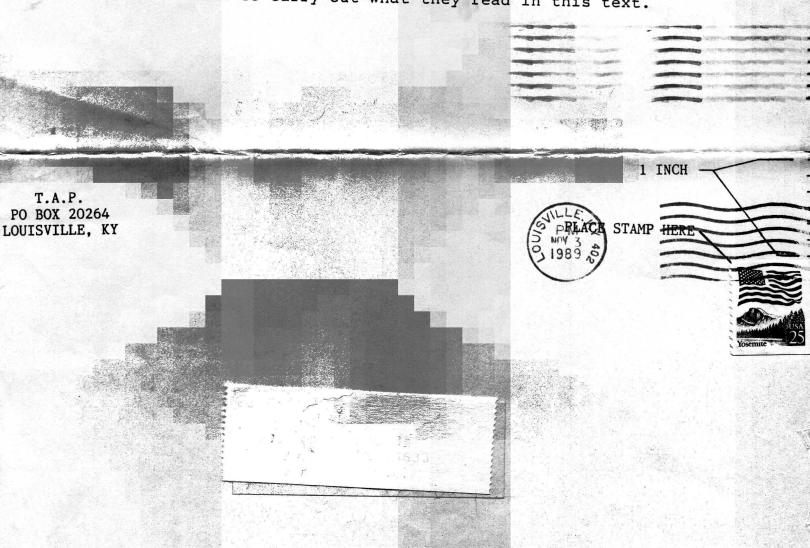


### A Warning from PredatOr

Extreme caution is mandatory with all use of this text material. For while with proper use, this information will help the reader to sufficient destructive capability to get any job done, this text though if mishandled may overload the readers receptive capability which could result in indescriminate violence of an intensity I assume you would consider undesirable. I therefore hereby disclaim any responsibility for the actions of those who willingly make the decision to carry out what they read in this text.





Happy New Year The Neoteric Strain Of Phreakers For The 90's TAP ISSUE #96 12-25-1989 Lockpicking Special Edition 2

> TAP P.O. Box 20264 Louisville, Ky 40220

this issue please send us 2 quarters or a .50¢ piece. No Checks Please



Lock-Pick Larceny Alexander Mundy

I hope all of you TAP readers have either made or acquired your lock picks, because I will teach you how to use them.

In order to get started, you will need the following equipment:

- A pair of tweezers
   A set of followers
  - Most commonly used size Picture from HPC catalogue

You TAP readers can make a set of followers from brass or plastic round stock or tubing. The important point to remember, is in making the follower, the end must match the plug. When you out the follower through the shell, the top pins and springs should not fall down in between the plug and follower.

3. Rim or Mortice cylinders (stay away from the ones with a curved keyway, like Yale and Lockwood and also the ones with mushroom or spool pins, like Corbin and Russwin.)

These cylinders are harder to pick for the average beginner.

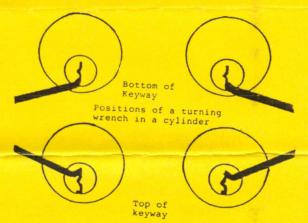
In order to start, remove the tail piece of the cylinder. It is usually held on by two screws or a spring clip. Next, take a follower and remove the plug from the shell. Be careful not to drop any of the pins. Also, when pushing the plug out of the shell, make sure that the key is slightly turned and that the follower is firmly against the plug. Otherwise, you will jam one of the top pins or springs between the plug and the followe as you are pushing out the plug. plug.

Next, remove all the bottom pins, except one. Next, remove all the bottom pins, except one. it's position in the plug does not matter. Also, remove all the top pins and springs, except the one that matches the bottom pin. Now reassemble the plug in the shell. Be Careful that the top pin and spring does not fall into any of the unused pin chambers in the plug. Take your turning wrench and pick (you should use a hook pick like this) Insert your wrench into the cylinder and exert pressure on the plug via the wrench. Next, take your pick and puch up the one pin so that it reaches the shrear line. The plug will turn in the shell. Congratulations!!! You have just picked a one pin cylinder.

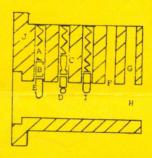
For your next experiment, try putting different amounts of pressure onthe wrench and feel the difference as you push up the pin. Also, use your wrench in the various positions shown. After you get the feel of picking the one pin, try moving that pin to a different pin chamber. Don't forget about the top pin and spring.

After practicing for awhile, try adding another top and bottom pin and spring to the cylinder and practive some more. Keep picking and also remember the feel you are acquiring. Soon you will be able to work your way up to 5, 6, and 7 pin cylinders. pin cylinders.

P.S. While picking a cylinder, you should keep the cylinder steady by placing it in a vice or other suitable holder.



Pressure may be applied wither upward or downward on the turning wrench.



- A. Cylinder Spring
- В.
- Top Pin Mushroom Top Pin
- Ball Bearing and Top Pin used as a Bottom Pin
- Regular Bottom Pin
- Shear Line
- Pin Chamber
- Plug (the part where the key fits in) Top and Bottom Pin at the Shear Line

The shell and the plug along with the springs, top pins and bottom pins, forms a cylinder.

#### Continued From Issue #95

#### I. Tools

The oretime drarribre the design and renotroction of lack picking tools

#### 1.1 Pick Shapes

Picks some in several shapes and sizes. Figure 1-1 shows the most common shapes. The handle and tang of a pick are the same for all picks. The handle most be comfortable and the tang must be the records to avoid bomping pine unoccumarily. If the tang is too this, then it will not his a spring and you will know the feel of the tip interacting with the pine. The shape of the top determines how easily the pick passes over the pine and what hind of feedback you get from each pine.

The design of a tip is a compromise between case of leaerties, case of withdrawal and feel of the interaction. The half diamond tip with shallow negles is easy to insert and remove, on you can apply pressure when the pich is moving in either direction. It can quickly pick a lack that has halts versation in the lengths of the key pics. If the lock requires a key that has a deep cut between two shallow cuts, the pick may not be able to posk the middle pin down far enough. The half diamond pick with steep angles could deal with such a lack, and in general steep angles give you better feedback about the pics. Unfortunately, the steep angles make it harder to move the park on the lock. A tip that has a oballow front angle and a steep back angle works well for Yale locks.

The bell round tip works well in disk tumbler locks. See section 9.13. The full diamond and full round tips are useful for locks that have pies at the top and bottom of the keyway.

The rate tip is designed for picking pion one by one. It can also be used to rake over the pion, but the pressure can only be applied as the pich is withdraws. The rake tip allows you to carrielly feel each pion and apply varying amounts of pressure. Some rake tips are flat or dested on the top to make it cause to align the pick on the pion. The primary benefit of picking pion one at a time or that you avoid scratching the pion. Scrubbing scratches the tips of the pion and the keyway, and it spreads metal dust throughout the lock. If you want to avoid leaving traces, you must avoid verything

The make tip can be used for acruibing or perking. When acruibing, the multiple humps generate more action than a regular pack. The unake tip is particularly good at opening five pin bounded locks. When a make tip is need for pecking, it can set two or three pins at once Baserally, the make pack acts like a segment of a key which can be adjusted by lifting and lowering the tip, by tilting it heat and forth, and by using either to top or bottom of the tip how about me moderate to heavy torque with a make pack to allow several pins to bed at the name time. The strict of packing in faster than using a rathe and it hence an little cridence.

#### 1.2 Street cleaner bristles

The opening steel brustles used on street cleaners make arcellest tools for lock picking.

The brustles have the right thickness and width, and they are easy to great into the desired shape. The resulting tools are springy and strong. Section 1.3 describes how to make tools that are less opening.

The first step is making tools in to said off any rust on the brintles. Course grit said paper works five as done a steel wool cleaning pad (not copper wool). If the edges or tip of the brintle are work down, use a file to make them papers.

A torque wrench has a head and a handle as abows in figure 1-2. The head is esselly 1/2 to 3/4 of an such long and the handle varies from 2 to 4 inches long. The head and the handle are separated by a level that is about 80 degrees. The head must be long enough to reach over any protrusions (such as a grap-proof collar) and firmly engage the plog. A long handle allow eliente emetrol over the torque, but if it is too long, it will bump against the doorframe. The handle, head and bend angle can be made quite small if you want to make tools that are easy to conceal (e.g., in a pen, flashlight, or belt buckle). Some torque wrenches have a 90 degree twent in the bundle. The twent makes it easy to control the torque by controlling how far the handle has been deflected from its rest position. The handle acts as a apring which sets the torque. The disadvantage of this method of setting the torque is that you get less feedback about the containes of the plog. To pich difficult locks you will need to lears how to apply a steady torque via a stift handled torque wronch.

The width of the head of a torque wrench determines how well it will fit the keyway.

Locks with narrow keyways (e.g., desk locks) need torque wrenches with narrow heads. Before
broading the broater file the head to the desired width. A general purpose wrench can be made

Diagrams next page.

#### the head m order rooms to grab a normal beyond

The hard part of making a torque wereals in broding the brothe outdoor crarbing it. To make the 60 degree handle twost, clamp the head of the bristle (about one inch) in a vice and one phiers to group the brothe about 2/8 of an inch above the run. You can use another pair of phiers instead of a run. Apply a 45 degree twost. Try to keep the sam of the trust load up with the sam of the brothe. Now more the phiers back another 2/8 such and apply the remaining 45 degrees. You will need to twost the bristle more than 50 degrees in order to cut a permanent 50 degree toust.

To make the 80 degree head bond, lift the brintle out of the vine by about 1/2 inch (so 3/4 inch is still in the vine). Place the shank of a necess dever against the brintle and bond the spring steel around it about 90 degrees. This abould set a permonent 80 degree bond in the metal. Try to keep the axis of the bond perpendicular to the handle. The according to the handle. The according to the same that the radius of curvature will not be too small. Any rounded object will work (e.g., drill bit, needle nose pliers, or a pen cap). If you have trouble with this method, try grasping the brintle with two pliers separated by about 1/2 inch and bend. This method produces a gratle curve that won't break the brintle.

A grading wheel will greatly speed the job of making a pick. It takes a bit of practice to leave how make smooth cuts with a grinding wheel, but it takes how tone to practice and make tone or three picks than it does to hand file a single pick. The first atop is to cut the foost angle of the pick. Use the foost of the wheel so do this. Hold the beasts at \$\frac{1}{2}\$ degrees to the wheel and more the bratic node to ade as you grand away the meral. Grind abouty to avoid overheating the metal, which makes it britisle. If the metal changes color (to dork bloc), you have overheated it, and you should grind away the colored portion. Next, cut the back angle of the tip using the corner of the wheel. Usually one owner or otherper than the other, and you should use that one. Hold the pick at the desired angle and slowly poss it into the ourser of the wheel. The node of the stone should cut the back angle. Be sore that the tip of the pick is supported. If the grading wheel stage is not close enough to the wheel to support the tip, use aredie one plient to hold the top. The cut should should pass though about 2/3 of the width of the bratic lif the tip came out well, continue. Otherwise break is off and try again. You can break the brate by clamping it starping it sharply.

The corner of the wheel is also used to great the tang of the pich. Put a seratch mark to indicate how far back the tang should go. The rang should be long enough to allow the tip to pass over the back pin of a series pin lock. Cut the tang by making overeal smooth passes over the corner. Each pass starts at the tip and moves to the corner mark. Try to remove less than a 1/18th of an inch of metal with such pass. I use two fingers to hold the bristle on the stage at the proper angle while my other hand pushes the handle of the pick to move the tang along the corner. Use whatever technique works best for you

Use a hand file to finish the pick. It should feel smooth if you run a finger nail over it.

Any roughness will add noise to the feedback you want to get from the lock.

The outer sheath of phose cable can be used as a handle for the pict. Remore three or four of the wires from a length of cable and push it over the pict. If the abeath won't stay is place, you can put some epory on the handle before pushing the abeath over it.

#### 1.3 Bicycle spokes

An alternative to making tools out of street cleaner brustles in to make them out of sails and bicycle spokes. These materials are easily accessible and when they are best treated, they will be stronger than tools made from brustles.

A strong torque wreach can be constructed from an 8-punny noil (about .1 rach diameter). First heat up the point with a propose torch until it glows red, slowly remove it from the flame, and let it air cool, this softens it. The burser of a gas store can be used instead of a sort. Grind it down into the shape of a stringy acrewdriver blade and bend it to about 80 degrees. The bend abouted be less than a right angle because some lock faces are recessed behind a plate (called an eccutcheon) and you want the bend of the wrench to be able to reach about half an inch into the plug. Temper (barden) the torque wrench by beating to bright orange and dunking it into new water. You will last for years under british out.

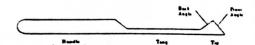
Dicycle spokes make excellent picks. Bend one to the shape you want and file the sides of the business end flat such that it's strong in the vertical and flexy in the horizontal direction. Try a right-angle hunk about an inch long for a handle. For smaller picks, which you need for

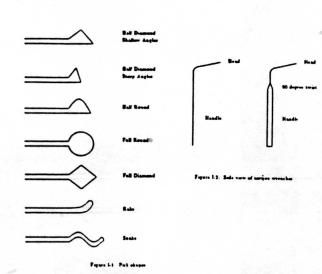
those really tian beyways, find any large-diameter apring and unbend it. If you're careful you don't have to play any metallurgical games

#### 1.4 Brick Strap

For perfectly serviceable key blanks that you can't otherwise find at the store, use the metal strap they evap around bricks for shapping. It's wonderfully bandy stuff for just about anything you want to manufacture. To get around orde wards in the keyway, you can bend the strap lengthwise by clamping it is a vice and tapping on the proteuding part to bend the piece to the recurred angle.

Brick strap is very hard. It can rule a greating wheel or key cutting machine. A hand file is the recommended tool for miling brick strap





#### II. Legal Issues

Contrary to underpread myth at a not a felora to passess forbacts. Each state has to one laws with cospect to each burglarous instituments. Here a the Alamachapetts remon quoted is entirely from the manuschapetts general code.

Chapter 266 (crimes against property)
Section 49 Burglarions instruments, making, pomeraios, un

Whereir makes or meads or begins to make or mind, or knowingly has in his passession, and are given, such or implement adapted and designed for catting through, forcing or bearing ages a building room, ravell, safe or other depository. IN ORDER TO STEAL THEREFROM movers or other property, or to rooms any other rooms havening the same to be adapted and designed for the purpose adversard. WITH INTERFT OU USE OR EMPLOY OR ALLOW the same to be rawd or employed for safe purpose adversard. WITH INTERFT, DO USE OR EMPLOY THIS ANAL, to save a partner, or where a beauty about the same motion value with INTERFT. TO USE OR EMPLOY THIS ANAL, to strait a motion retains or other properties therefrom, shall be parabled by impresonment as the state grame of root more than one.

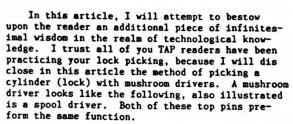
Emphase wided

In other words more possession means anthing. If they stop you for speeding or nomething and find a pick set they can't do much. On the other hand, if they catch you picking the lock on a Money machine they get to draw and quarter you.

States with similar wording sociude ME NII, NY. One place that DOES NOT have similar wording and does make pomerance illegal, is Washington. DC. These are the only other places I have obested. I would imagine that most states are similar to Manachusetts but I would not bet anything substantial fear, more than a sirre of pizzal on it.

It may be a good ides to carry around a serored copy of the appropriate page from your state perimusal code.

End Of MIT Lockpicking Guide.



] ]

Mushroom Driver Spool Driver

Corbin, Russwin, Abus, Walsaco, and American are some of the locks that contain mushroom pins. The Fox Police Lock Co. also uses a Russwin rim cylinder in its' lock products.

Now on to the technique. When one is confronted with a lock of this nature, one should pick the lock by first finding the bottom pin with the regular driver. There is usually only one regular top pin in a lock that contains mushroom drivers. But, the possibility exists that there may be more than one regular driver. While applying tension on the tension wrench, one picks the pins in the lock until one picks the one bottom pin with the regular driver. When the bottom pin with the regular driver reaches the shear line in the lock, the plug will turn a fraction of a degree. At this point, one know that you will have to pick the remaining bottom pins with the mushroom drivers. To push the bottom pin up to the shear line, one will have t gradually release tension on the tension wrench as you are pushing up on the bottom pin. As you are pushing up on the bottom pin, you will feel the plug begin to lose that fraction of a degree to which the plug was turned. When the bottom pin has reached the shear line, the plug will again turn a fraction of a degree. This will continue until all of the mushroom pins have been picked. At this time, the plug will be free to turn in the direction in which you have applied tension via the wrench.

One exception to this is two types of fairly new drivers which loos as follows:

 $\Omega$  [

One should note the bottom lip of the pins

One would pick these in the same manner. But, before the lock will open, one will have to release almost all tension on the wrench. This is because the bottom lip of the top pin is still in the plug preventing the lock from opening. While having almost no tension on the wrench, one will have to pick each bottom pin just a fraction more in order for the bottom pins to reach the sheer line.

GOOD LUCK AND KEEP ON TRYING!!!!!!!!!!!!!!!!!!







Many of the combination locks on the market today can be opened with a simple tool made from a piece of .005" spring steel that is gotten from an automotive feeler guage.

Any lock that has multiple combination wheels is openable by their method. The most notable brand is the Sesames combination lock.

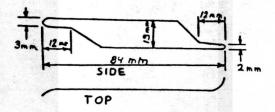
To make the pick out a piece of .005" steel to fit the pattern shown.

The steel should be heat treated a bit to the brittle side so that the feelers will not become flat during use.

To use insert the feeler between the combination wheel and the lock wall and turn the wheel until you find a notch in the side of the wheel. Do this to all the wheels. Now subtract or add to the numbers you got. Now turn the wheels so that the resulting numbers face the trademark logo on the front of the lock.

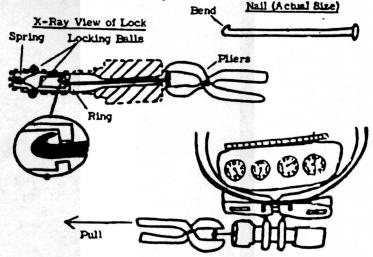
This method can be varied to open most multiwheel combination locks.

The Stainless Steal Rat



PICKING THE LOCK

To make a key for a rollersmith lock, take a 2" mil, 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 mail out very slowly and powerfully with a big pliers or visegrips. 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.

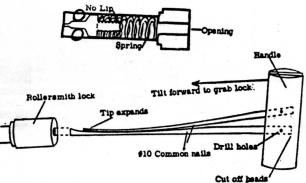


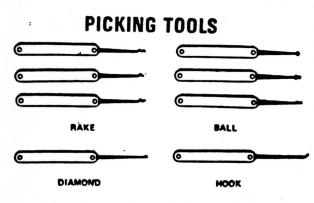
## MAKE A KEY FOR YOUR ROLLERSMITH LOCK

One of our master craftspersons just built this beautiful rollersmith key and it works like a dream. Unlike the nail method in TAP 23, this key allows you to put the lock back on! (As well as take it off, of course). You'll need an ele-ctric grinding wheel and two 5/32" diameter nails. . . that are at least 3" long. Since the hole when the top nail is slid forward, as shown in the diagram. Bend the backs of the nails so that there's a 1/8" space between them yet they lie flat against each other along their length. It's easy to see that when you tilt the handle forward the tip of the key expands and grabs the moving cylinder in the lock. Now pull the key outwards while keeping the top of the handle tilted forward, and voila! off it comes.

Drill the holes in the nails for the pivet screw and mount it in between two pieces of wood for a handle. You can put a rubber band around them so they don't flop around when not in use.

We smashed open a lock to find that it is built a little differently then we pictured in Issue 23. The spring is in the middle and there's no lip for a nail to grab.



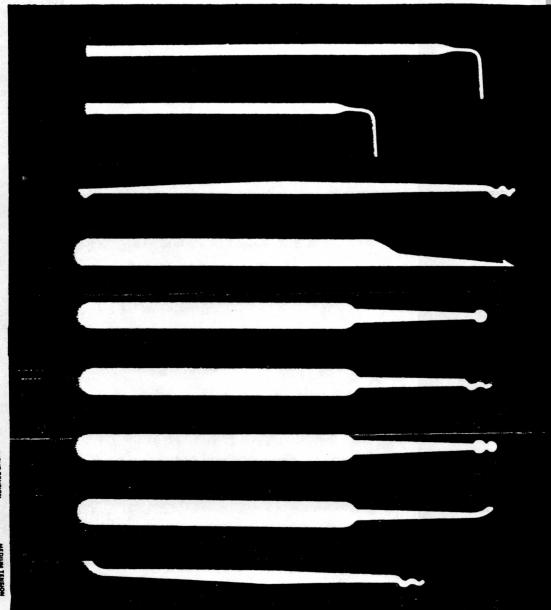


All picks shown are reduced from actual size.



# THE PEOPLE'S ENEMY OUTH Central A BELLSOUTH MONOPOLY

TIGHT THEORY THEOLOGY



Actual size/shape of a small, but adequate, pick set.



#### Subscriptions

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