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The Secrets of Lockpicking



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INTRODUCTION

The ancient Egyptians were the first to come up with a complicated security device. This was the pin tumbler lock. We use the same security principle today on millions of applications.

The most commonly used lock today is the pin tumbler lock. A series of pins that are divided at certain points must be raised to these dividing points in relationship to the separation between the cylinder wall and the shell of the lock by a key cut for that particular series of pin divisions. Thus the cylinder can be turned, and the mechanism or lock is unlocked.

Lock picking means to open a lock by use of a flat piece of steel called a pick. Actually, the process requires two pieces of flat steel to open cylinder locks. It amuses me to watch spies and thieves on TV picking locks using only one tool. But it is for the better in a sense. If everyone learned how to pick locks by watching TV, we would all be at the mercy of anyone who wanted to steal from us, and the cylinder lock for the most part would be outdated.

The actual definition of lock picking should be: "The manipulation and opening of any restrictive mechanical or electronic device by usage of tools other than the implied instrument (key or code) used solely for that device." A little lengthy, but more accurate description. With cylinder locks, it requires a pick and a tension wrench.

By picking the lock, you simply replace the function of a key with a pick that raises the pins to their "breaking point," and using a tension wrench one rotates the cylinder to operate the cam at the rear of the lock's cylinder to unlock the mechanism.



The tension wrench is used to apply tension to the cylinder of the lock to cause a slight binding action on the pins as well as to turn the cylinder after the pins have been aligned by the pick; this opens the lock. The slight binding action on the pins caused by the tension wrench allows one to hear and feel each pin as it "breaks" or reaches alignment with the separation of cylinder and shell. The vibration is felt in the knuckles and joints of the fingers, and the sound is similar to that of a cricket in an arm wrestling match-a subtle yet distinct click.



Usually you need very little tension with the wrench while picking the lock. In fact, it takes somewhat of a delicate, yet firm touch. This is the secret to picking locks successfully-a firm and yet gentle touch on the tension wrench. You should be able to feel the pins click into place with the right amount of tension; experience will be your true guide.

Half of your success will be based on your ability to use or improvise various objects to use as tools for your purpose. The other half will depend on practice. I once picked a pin tumbler lock using a borrowed roach clip and a hairpin. A dangerous fire was prevented and probably several lives were saved. The world is full of useful objects for the purpose, so never hesitate to experiment.

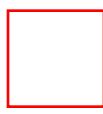
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TOOLS

I started picking locks using a small screwdriver and a safety pin. The screwdriver can be used as a tension wrench, and the safety pin is used like a "hook" pick. The last half inch of the screwdriver's tip was bent at a 45 degree angle so as to allow easy entry for the pick (bent safety pin). Do not heat the screwdriver tip to bend it, as this will destroy its temper. Use a vise and hammer to do the job. Bend slowly by using firm and short taps of the hammer, otherwise you may break and weaken the shaft. The safety pin should be about one and a half inches long and bent in the same way.

With the small screwdriver as a tension wrench, you can use more of a turning or twisting movement than with a regular tension wrench so you will generally need less direct force when using it. As I mentioned earlier, with practice you will develop the feeling for the right amount of tension on a cylinder. If the safety pin bends after a short time, use the keyway of the lock you are picking to bend it back into shape. Even after several times of bending, it should still be useful. Keep a few spares handy, though. File the tip of the safety pin flat in relationship to the bottom of the pins in the lock. Smooth any sharp edges so that you won't impale yourself. Also, if the tip is smooth, the pick will not get hung up on the pins while picking the lock.

Granted these are not the best tools for the job, but they do work. If you learn to use your junk box as a rich source of equipment, then with your experience real lock picks will give you magic fingers. Also, you'll have the advantage of being able to improvise should you be without the real things (which are illegal to carry on your person in most parts of the country).



[This is my set.](#)

Lock picks are difficult to get. I received my first set when I became a locksmith apprentice. All of my subsequent sets I made from stainless steel steak knives with a grinder and cut-off wheel. They are much more durable than the commercial picks. If you do make your own, make certain that the steel is quenched after every 3 seconds of grinding-do not allow the pick to get hot to the point of blue discoloration.



I'm afraid he's wrong on that first part... I got my first set sending \$11.95 to a security catalog... and every security catalog sells them.

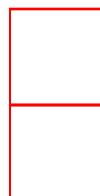
A diamond pick is the standard pick I use on most all pin and wafer locks. A small diamond pick is used for small pin tumbler locks such as small Master padlocks, cabinet file locks, etc. The tubular cylinder lock pick, we will discuss later. The double-ended, single-pronged tension wrench is used with the diamond pick. It features double usage; a small end for small cylinders and a large end for the larger cylinders. A special tension wrench is used for double-wafer cylinder locks with an end with two prongs on one end and tubular cylinder locks with the single prong on the other end. We will discuss tubular cylinder and double-wafer locks later as well. The steel should be .030 inches to .035 inches thick for the picks and .045 inches to .050 inches thick for the first tension wrench mentioned above. The second tension wrench should be .062 inches square (.062 inches x .062 inches) on the tubular cylinder side (one pronged end), and .045 inches thick on the double-wafer end (two-pronged end). You can accomplish this by starting out with .045 inches in thickness. The two-pronged end should be bent carefully in a vise at a 30 degree angle. This allows easy entry for the pick on

double-wafer locks.



Among the more common tools used by professionals around the world is the rake pick. The rake pick is used to "rake" the tumblers into place by sliding it in and out across the tumblers. I seldom use the rake pick because it is not highly effective and I consider it a sloppy excuse for a lock pick. I've seen the rake pick work on some difficult locks, but you can rake with a diamond pick and get the same results. I prefer the diamond pick for most tumbler locks simply because it is easier to get in and out of locks-it slides across the tumblers with little or no trouble.

A ball pick is used for picking double-wafer cylinder locks, though I never carry one; I use a large diamond pick and reverse it when picking these locks. This means I have one less pick to carry and lose.



A double-ball pick is used like a rake on double-wafer locks in conjunction with a tension wrench (two-pronged end).

A hook pick is used to open lever tumbler locks, though again, I use a diamond pick with a hooking action when possible. There are various sizes of hooks but they all have the same basic job-to catch the movable levers that unlock lever locks.

There are also various sizes of tension wrenches. They are usually made from spring steel. The standard tension wrench is used for pin and wafer locks. A special tension wrench is called a Feather Touch, and it is used for high-security mushroom and spool pin tumbler locks. Its delicate spring-loaded action allows the pick to bypass the tendencies of these pins to stick. A homemade version of the Feather Touch can be made from a medium-light duty steel spring.

As to getting lock picks for your own use, you cannot go down to your local hardware store and buy them. I could supply you with some sources or wholesalers, but I do believe it is illegal for them to sell to individuals. Your best bet would be to find a machine shop that will fabricate them for you. It would be less expensive and arouse less suspicion if you purchase a small grinder with a cut-off wheel and make your own. With a little practice, you can make a whole set in an afternoon. Use a copy of the illustrations in this book as templates and carefully cut them out with an X-ACTO knife. Cut down the middle of the lines. Acquire some stainless steel (many steak knives approach proper thickness).

With a glue stick, lightly coat one side of the paper template and apply it to the cleaned stainless surface, and allow it to dry. You'll need a can of black wrinkle finish spray paint. This kind of paint has a high carbon content and can stand high temperature of grinding. Spray the stainless (or knives) with the patterns glued on and dry in a warm oven or direct sunlight for one hour. Set aside for twenty-four more hours. Peel off the paper template and you are ready to cut and grind. Please use caution when cutting and grinding. The piece should be quenched every three seconds in cold water. Smooth up sharp edges with a small file or burnishing wheel.

Tools made from stainless steel will outlast the purchased ones. The tools purchased from most suppliers are made from spring steel and wear out after about 100 uses. The stainless steel ones, if properly made, should last over 2,000 uses.



Hmm... Personally, since the purchased kits are only around ten dollars, I prefer just buying the kits... The effort in cutting and filing isn't really worth all that time since the kits will work just as well.



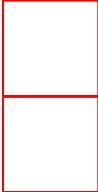
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LOCK IDENTIFICATION

There are many types of locks, the most common being:

1. The *pin tumbler lock*. Used for house and garage doors, padlocks, mail boxes, and Ford automobiles.
2. The *wafer tumbler lock*. Used for garage and trailer doors, desks, padlocks, cabinets, most autos, window locks, and older vending machines.
3. The *double-wafer lock*. Used for higher security wafer tumbler applications.
4. The *warded locks*. Used for light security padlocks and old-fashioned door locks.
5. *Lever locks* Used for light security and older padlocks, sophisticated safe-deposit boxes, some desks, jewelry boxes, and small cash boxes.
6. *Tubular cylinder locks*. Used for alarm control systems, newer vending machines, car-wash control boxes and wherever higher security problems might exist.

These locks are the more common locks used yet there are variations and combinations of these principal types that usually pick open in the manner that will be discussed. Some of them just require practice of the basic types, others luck, and most of the rest of them knowledge of how that particular lock works and is keyed. This comes from experience.



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PIN TUMBLER LOCKS

Pin tumbler locks offer the most security for their price. They have close machine tolerances and approximately 1,000,000 different key combinations for a five-pin lock. Considering the thousands of different companies making pin tumblers (different shaped keyways for each company or design line), the chances of someone having a key that will work in your front door lock are one in many billions.

Pin tumbler locks can easily be identified by peering down the keyway and locating the first round pin. Sometimes you can see the pin's dividing point, where it breaks with the cylinder wall (shear point).

To successfully pick a pin tumbler lock, your sense of touch should be honed so that both hands feel the tools. Once the hand holding the pick has located a slight relief in tension while picking a particular tumbler, the other hand holding the tension wrench will feel a relief or breaking point. Both hands should be involved with the sense of touch, the sensing of the inner workings of the lock.

We are now ready to begin the first lesson. First open your front door and check for a pin tumbler lock on it. It should have one on it. If there is one, leave the door open to decrease suspicion. Do not lock yourself out of your apartment or house by being overconfident; not only will you raise suspicion, but window glass is not cheap.

HOW TO PICK A TUMBLER LOCK

STEP ONE

Without using the tension wrench, slip the pick into the lock. The "hook" of the pick should be toward the tumblers (up in most cases, depending on whether or not the lock was mounted upside down—you can tell by looking down the keyway and locating the first pin with your pick). Try to feel the last tumbler of the lock. It should be 7/8 inches into the lock for a five-pin tumbler lock (most common pin tumbler lock used).

Make certain that you have no tension on the wrench when inserting the pick as this will encumber the frontal tumblers. When you feel the back tumbler, slowly raise it with a slight prying motion of the pick. Release it, but keep the pick in the lock on the rear tumbler.

Now insert the tension wrench, allowing room for the pick to manipulate all of the pins. It should be placed at the bottom of the cylinder if the lock was mounted upright, tumblers toward the top of the cylinder. Apply firm and yet gentle clockwise pressure to the tension wrench.

Slowly raise the back tumbler with a slight prying motion of the pick. A minute click will be felt and heard when it breaks. It will lose its springiness when this occurs, so do not go any further with it. Any further movement with the pick will cause binding by going past the pins' shear line. Continue an even pressure with the tension wrench.

Keeping an even tension pressure, proceed to Step Two.

STEP TWO

The fourth tumbler should be easily felt since it is the next one in line. Raise it until it breaks, keeping the

ten- sion wrench steady. It too will give a sound and sensa- tion when it breaks or aligns.

STEP THREE

The third or middle tumbler is next. Again, it too will click. Maintain a constant, even pressure on the wrench- about the same pressure that you would use to replace a cap on a catsup bottle. You may feel the "clicks" in your tension wrench as well as hear them.



STEPS FOUR AND FIVE

Continue on to the next tumbler out, working toward you. When it breaks, raise the last (front) tumbler to its braking point and the cylinder should be free to rotate and unlock the door. Sometimes you may have to play with the wrench to open the lock because you may have raised a tumbler too high, past its breaking point. If this is the case, very slowly and gradually release the tension wrench pressure and the overly extended tumbler will drop into its breaking point before the other tumblers have a chance to fall. The cylinder should pop open at that point. I have found that this technique is responsible for over 30 percent of my successes in opening all tumbler locks.

If the lock still refuses to open after all that treatment, release the tension wrench pressure, allowing all of the tumblers to drop and start over. You may have more than one tumbler too high and would be better off to repeat the picking process.



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WAFER TUMBLER LOCKS

Wafer tumbler locks make up over one-fourth of the locks in use in the world. Since they are generally easier to pick than most pin tumbler locks, you will be 75 per- cent master after fooling around with these mechanisms. That is why I wrote about pin tumbler locks first-they are more difficult and make up over one-half of the locks used today.



The term wafer refers to the general shape of the tumblers. The wafers are flat, spring-loaded tumblers that are much thinner than pins and the distance between them is less. Wafer locks are picked in the same way as pin tumbler locks, but you must compensate for the smaller dimensions. You can identify wafer locks simply by look- ing down the keyway and locating the first flat tumbler. The last tumbler on most wafer locks is located about one- half inch into the lock.

Wafer locks are used on filing cabinets, lockers, most cars, garage doors, desks, and wherever medium security is required. The only wafer tumbler lock in common use that is difficult to pick is the side-bar wafer lock. It is the most popular type of auto lock. This lock is of different design than most other locks and offers much more secur- ity than a regular wafer tumbler lock, or even a pin tumbler lock.

The side bar lock is used mostly on General Motors cars and trucks since 1935. It is used on ignitions, door, and trunk locks. Side bar locks are hard to pick because you cannot feel or hear the tumblers align with the cylinders breaking point. A spring-loaded bar falls into place to allow the cylinder to turn when all of the tumblers are aligned. There is no way to tell when that happens. One learns to sense the bar while picking so that it seems to fall into place by itself. But for beginners, I recommend this technique for emergency openings: Peer down the keyway and locate the side groove of any of the tumblers using a pick as a searching tool. Drill a small hole in the shell of the lock above the bar which is above the grooves on the tumblers. Since side bar locks have off-centered keyways, the usual place to drill is opposite of the keyway. Using an L-shaped steel wire, put pressure on the sidebar and rake the tumblers using a tension wrench for cylinder rotation and the lock will open.

Fortunately, most GMC autos have inferior window seals; with a coat hanger, one can lasso the locking door knob to open the door. If you are going to be successful at opening side bars, you will do it within two minutes; otherwise, you are causing unnecessary wear on your picks not to mention wasting your time.

Ford auto locks are relatively simple to pick. They have pin tumblers and you have to remember that the door locks turn counterclockwise. Most other auto locks turn clockwise. If you are not sure, remember this: If the tumblers will not catch at their breaking points, you are going in the wrong direction with the tension wrench.

Wafer locks are a cinch to pick if you have learned how to pick pin tumblers. Just remember that wafers

are thinner than pins and there is less distance between them.

Generally you need less tension-wrench pressure with these locks, yet car locks can be quite stubborn and require a great deal of tension. Any heavily spring-loaded cylinder needs a substantial amount of tension.

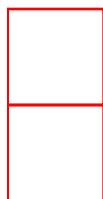
As a rule, though, wafer locks need less play with the tension wrench than with pin tumbler locks. But if you find yourself having difficulty in opening these, you may try a little tension-wrench play. Usually they won't pop open like pin tumbler locks, they just slide open; you don't get the warning that a pin tumbler gives before it opens because there is less contact area on the wafer's edge than on a pin, so the sense of climax is reduced with these types of locks. Still, they open quite easily.

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DOUBLE WAFER LOCKS

Double-wafer locks are picked in the same way as single-wafer locks, but there are two sides to the story. Not only do you have to align the top wafers, but you have ones in the bottom of the cylinder to align as well.

The Chicago Lock Company was the first to come up with this type of lock. It is a classic example of the race toward better security. Certain tension wrenches allow uninterrupted picking using ball picks. You can also use a standard tension wrench or small screwdriver and place it at the center of the keyway. To eliminate unnecessary baggage, use a diamond pick, reversing it to encounter both top and bottom wafers.



The last tumbler in this type of lock is located less than one-half of an inch in. The picking procedure may have to be repeated more than one time-top wafers, then bot- tom wafers, top, bottom-back and forth. Yet these locks are easier to pick than most pin tumblers.

Locate the last wafer on the top side and move it to its breaking point. Do the same with the other top wafers. Keep the tension wrench firm, remove the pick, turn it upside down (if you are using a diamond or homemade pick), and reinsert it to work the bottom wafers. You may have to repeat this process a few times, but double-wafer locks can and will open with such treatment. Schlage has a doorknob lock that opens this way, but the last tumbler is about one and one-half inches in.

Double-wafer locks are easy to master if you have learned to pick pin and wafer tumbler locks. Since double-wafer locks are more compact, you have to compensate for the fact-slightly closer tolerances. These type of locks are used on old pop and candy machines, gas caps, cabinets, etc.



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PIN AND WAFER TUMBLER PADLOCKS

Cylinder padlocks require a technique of holding them with the same hand with which you are using the tension wrench. This technique allows one to pick the padlock without going into contortions over a dangling padlock. Assuming that you are right-handed, hold the padlock in your left hand by gripping the body of the padlock with your thumb and forefinger. Insert the tension wrench at the bottom of the keyway and hold it in a clockwise turn with your ring and little finger, causing a slight binding pressure on the cylinder. Now your right hand is free to pick, and your left hand does the job of holding both the lock and tension wrench. The overhand method works well, too, but the thumb controls the tension wrench instead. Switch around to find which is most comfortable for you.

When tumbler padlocks pop open, it is quite a sensation because the shackle is spring-loaded and gives one quite a jolt. It's a feeling of accomplishment. You may need a little more tension on padlocks than on door locks because the cylinder cam has to operate a spring-loaded bolt. Overall, padlocks are the most fun to open. Practice using old or discarded padlocks that you have found. I've worn out hundreds of them.



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TUBULAR LOCKS

(Note: Diagrams of tubular lock were omitted due to the fact that picking them with conventional methods is a complete waste of time. There are picks available that are specifically designed to pick this kind of lock in a matter of seconds)

We will gradually proceed to more sophisticated locks from here. I would like to remind you that success is not based on personality. If one is arrogant about one's lock- picking skills, one could easily be made a fool of by a lock. And no matter how many times you bash a cylinder, you will still be locked out. The only thing you accomplish is attracting an audience-so be cool.

If at this point you have had much difficulty understanding the principles of pin and wafer locks, please restudy this book from the beginning. Read it several times so as to absorb it. The information that you now have has taken me almost two decades to gather, so please be mindful of that.

Now you are about to learn how to open the more difficult locking mechanisms-some of the other 25 percent of the locks used today. You should feel confident with pin, wafer and double-wafer tumbler locks before you attempt rim cylinder locks.

Tubular cylinder locks stand out as the most generally accepted lock in all important industries using high-quality locks for protection of property, merchandise, and cash. They are recognized as giving the maximum amount of security for their price range.

Tubular cylinder locks are pin tumbler locks arranged on a circular plane. Unlike conventional pin tumbler locks, all of the pins are exposed to the eye. The central section of the lock rotates to operate the cam when all of the seven pins have reached their breaking points. When the proper key is entered into the lock, the tumblers are pressed into position so that the central section (plug) can be turned. This manual operation of inserting the key places the tumblers in position so that the lock can be operated and ensures that frost, dust, salt, or unfavorable climatic conditions will not affect the smooth operation of the lock.

The Chicago Ace lock is a product of the Chicago Lock Company of Chicago, Illinois. It is an effective security device and is used on vending machines, coin boxes, and burglar alarms. A larger, more complex version of it is used on bank doors and electronic teller machines. The key is of tubular shape with the cuts arranged in a circle around the key.

The pick used for this lock is the tubular cylinder pick, or you may use a straight pin or your homemade safety pin pick. The one-pronged end of the tension wrench is a little more specialized and is used for rim cylinder locks. It must be .062 inches square for best results. Any square steel stock is acceptable, as long as it fits snugly into the groove of the tubular cylinder plug.

This type of lock is a burglar's nightmare because it takes so long to pick. You have to pick it three or four times to accomplish the unlocking radius of 120 to 180 degrees. And the cylinder locks after each time you pick it-every one-seventh of a turn.

If you leave the lock only partly picked, the key will not be able to open it, so you must pick it back into the locked position after opening it-another three or four picking sessions. In all, to unlock and lock the

cylinder, you have to pick it up to eight times-quite a chore if you don't have the right tools or time.

These locks almost always pick in the clockwise direction. Make certain that the tension wrench fits snugly into the groove on the cylinder. Very slowly push the first pin down until it clicks, maintaining a definite clockwise pressure on the tension wrench. Once the tumbler has broken, do not push any further and proceed to the next one, and so on. As you reach the last tumbler, the tension wrench will feel more slack and give way if the lock were properly picked.

There are special keyhole saws for these locks in which you drill out the tumblers and turn the cylinder. Also there is a special tool used by locksmiths to open rim cylinder locks.

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MUSHROOM AND SPOOL PIN TUMBLER LOCKS

High-security pin tumbler locks may contain specially made pins to make picking them more challenging. The pins are machined so as to make picking them quite difficult. When picking these locks, the pins give the impression that they have broken, when in fact they could be a long way from breaking. You can tell whether or not you are picking a pin tumbler lock that has these pins by the fact that the pins seem to align so easily with a louder than normal click. The cylinder seems eager to open but to no avail.

The picking procedure relies on a well-yielding tension wrench. The tension wrench has to be lightly spring-loaded so that the pins can bypass their false breaking points. You also have to "rake" (seesaw in and out) the pins with your pick. The feather-touch tension wrench is ideal for the job. Use light pressure with it, and it will let you in.

(Note: A feather-touch tension wrench is not necessarily required. A normal tension wrench will work fine with an extremely light tension on it. The weight of just your index finger alone should be enough in most cases.)

The mushroom and spool pins are used in locks for high-security purposes such as bank doors. The American Lock Company uses them in some of their padlocks.

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MAGNETIC LOCKS

Magnetic locks are fascinating. I almost hate to open them because I feel that I have breached their uniqueness. In reality, you do not pick them, but "confuse" them. They generally work on the principle that like magnetic polarities repel each other. The key is a set of small magnets arranged in a certain order to repel other magnets in the lock, thereby allowing the spring-loaded bolt or cam to open the lock.

By using a pulsating electromagnetic field, you can cause the magnets in the lock to vibrate violently at thirty vibrations per second, thereby allowing it to be opened by intermittent tugging of the bolt or turning of the door knob.

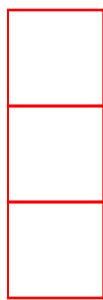
This method may also ruin the small magnets in the lock by changing their magnetic status or properties. So, if you have to perform an emergency break-in with these locks, do not relock the door. The card or key will not operate the lock.

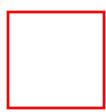
The magnetic pick can be used on padlocks by stroking it across the place where the key is placed. It is also designed to fit into the doorknob and is used by stroking one pole in and out or by using the other pole the same way.

If you have had little or no training and experience building something like this, please have a friend who is familiar with basic electronics do it for you. Do not take the chance of electrocuting yourself. Make sure that the coil is also completely covered with electrician's tape after you have wound the 34 gauge wire. Also make sure that the steel core has at least three layers of tape over it. Do not leave the unit plugged in for more than two to three minutes at any one time as this may cause overheating which could cause it to burn out or start a fire. It is safe to use if constructed properly and not left plugged in unattended. Opening magnetic locks requires only 30 to 60 seconds anyway, so don't leave the unit plugged in for longer.

For magnetic padlocks, use a back-and-forth stroking action along the length of the keyway. For magnetic door locks, use a stroking in-and-out action in the slot of the knob alternating from one side (pole) of the pick to the other.

The "key" for a magnetic door lock is a metal or plastic card containing an array of magnetic domains or regions coded in a specific order to allow entry. The magnetic pick bypasses that.





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TIPS FOR SUCCESS

You will undoubtedly encounter a pin tumbler lock in which there will be a pin or two that is keyed too low (the shear line of the pin is too high). In this case the lock is difficult to open because the breaking point of a long bottom pin doesn't allow room in the keyway for the pick to manipulate the other pins. Your success in opening "tight" locks will depend on the skill you have developed with your tension wrench. Sometimes it helps to play with the tension wrench. Try bouncing it left and right slightly while picking, allowing some of the tumblers to drop occasionally. You may also try picking the front tumblers first or picking at random on these locks. You can tell if you have a lock that is keyed like this because your pick may get jammed during the picking process.

After you have opened a cylinder and unlocked a lock, be sure to return it to the locked position. You will hear the tumblers click into place when this happens. Otherwise it may be difficult to unlock it with its key because the bottom pins cannot "float" like they normally would.

To tell whether or not the cylinder should go clockwise or counterclockwise when picking a tumbler lock, there is an easy rule to follow. If the tumblers (pin or wafer) will not break, or stay broken, you are going in the wrong direction with the tension wrench. There will be little or no progress with the cylinder, and few, if any, "clicks."

Some keyways are cut at an angle (Yale, Dexter, and Schlage, for example) so you want to be sure that you tilt your pick to follow that angle while picking or your pick will get hung up. A slight twist of the wrist will compensate for this problem.

Should your fingers become tired while picking a lock, lay down your tools and shake your hands and fingers to relieve any tension. After some time the muscles in your hands will become accustomed to such activity. Practice and persistence will tone your hands and senses to the point where you will be able to pop open a cylinder in three to five seconds (that's seconds) in total darkness. The combination of touch and sound lets you know almost a split second before you open the lock that you have succeeded.

If the lock is a well-machined one, the cylinder will feel tight and you will need a little firmer hand on the tension wrench. While picking, if any one of the pins at any time feels firm or difficult to move, chances are it's aligned. If it feels springy, it is not.

Use the shaft of the pick if you have to when working the frontal pin of a pin tumbler lock. This may save you the trouble of aligning the tip of the pick on the front pin where there is little or no support for the pick. All of the other pins allow the pick to be supported by the inside wall of the keyway.

Master keyed pin tumbler locks are generally easier to pick open because they have more than one shear line or breaking point in the pins. Master keying allows a group of locks to be controlled by a master key holder while the individual locks in that group are controlled by individual keys. Hotels and apartment complexes are usually master keyed.

There is a simple technique to open pin and wafer tumbler locks. Simply drill through the shear lines of the tumblers. This point is located just above the center of the keyway on the face of the cylinder. By doing this, though, you obviously ruin the lock and make a lot of racket. If the lock is a Medeco or some

other high-security - lock, you risk damage of one hundred dollars or more, so be sure you know the value of the situation before you decide to rape the lock. Use a center punch to start a reliable hole on the cylinder face and use a one-quarter inch drill bit with a variable speed drill. With a large screwdriver, turn it to unlock. The cylinder will be difficult to turn because you may be shearing the tumbler springs that have fallen down past the cylinder's shear line.

Dead bolt locks are those mounted on a door above the knob. All dead bolt locks unlock counterclockwise with left-hand doors and clockwise with righthand doors. If you have trouble remembering this, just remember that the bolt of the lock has to go in the opposite direction of the doorjam.

Dead bolt locks are just as easy to pick open as knob locks are. They both have cylinders that can be picked open. The main difference is that dead bolts cannot be opened by sliding a plastic or metal card through to the bolt so as to work it back. In other words, they are not spring loaded. That's why they are called dead bolts. Most knob locks now have guards in front of the bolts to deter opening with cards.

Kwik-sets, Weisers, and some of the less-expensive knob locks may open in either direction. Schlage and Corbin, along with more sophisticated locks, can open only in one direction. Auto locks will open either way. Another method of picking pin tumbler locks is with a pick gun. As the pick snaps up, it hits the bottom pin. This bounces the top pin out of the cylinder and into the shell. As you apply light turning pressure with the tension wrench, the top pins are caught in the shell, the cylinder will turn. I've never used a pick gun, but they do work well for locksmiths who use them. They are cumbersome and expensive, and show some lack of professionalism.

(Note: If you don't care about professionalism and want to open 95% of all pin tumbler locks out there - and fast- buy this device. It is very awesome. I even recommend it over a Cobra Electronic lockpick. Trust me, I have both, and I feel the \$60 Lockaid pick gun blows away the \$350 Cobra)

SOME PRECAUTIONS

If you bought this book to learn how to pick locks in order to become a more efficient burglar, then there is not a whole lot I can say or do to stop you. But I must say this: the locks used in prisons are nearly impossible to pick even if you get or make the right tools. They are usually electrically controlled from an external station.

Do not carry lock picks on your person. If you get caught with them, you could get nailed for most any professional job in town for the last seven years. If you must carry them, as in the case of rescue workers, etc., please consult your local authorities about details and ask about registering with them. As a former locksmith, I do not have that problem.

I advise that you do not teach your friends how to pick locks. The choice is yours, of course. You paid the price of this book and the knowledge is yours-be selfish with it. It is for your own protection as well. The fewer people who know you have this skill, the better. Getting blamed for something you didn't do is unfair and a hassle.

When you become proficient at picking locks, you may decide to get a job as a locksmith. But believe me, there is more to being a locksmith than being able to pick locks. You have to be a good carpenter as well as a fair mechanic. But you may want to approach the owner of a lock shop and ask if you could get on as an apprentice.

NOBODY'S PERFECT

There isn't a locking device on earth that cannot be opened with means other than its key or code. It's just that some are easier to open than others. Anything with a keyhole, dial, or access port is subject to being opened with alternate means, though some of the newer electronic and computer-controlled security devices would be a nightmare even if you had extensive knowledge of electronics and electromagnetics. Some devices also use palm prints as a readout to allow entry.

On the mechanical side, there are locks that have normal pin tumblers, but they are situated in various places 360 degrees around the cylinder. Some locks use pin tumblers that not only have to be aligned vertically within the cylinder, but also have to "twist" or turn a certain number of degrees to allow the cylinder to open. This is because the pins' shear line is cut at an angle. These locks are made by Medeco.

I have witnessed only one Medeco lock being picked- by a fellow locksmith. We both spent hours trying to pick it again, but it was futile. We estimated the chances of opening it again to be one out of 10,000. They are excellent security devices, but their price keeps them limited to areas prone to security problems such as isolated vending machines and for government use. The only one I have been successful at opening (after an hour of picking) was one I drilled. By the way, they are easy to drill because the brass that's used is soft.

LEARNING TO TOUCH AND FEEL

Most of us know how to touch. We touch objects every day, and yet we do not truly feel them. It seems so commonplace that we forget that we are actually feeling while we touch.

Here is an exercise that will develop a delicate touch. Gently rub and massage your hands and fingers - preferably with hand lotion. Do this for five minutes. Once the lotion has evaporated, shake your hands and fingers so that they flop loosely. Gently pull each finger to relax each joint.

Now with a piece of fine sandpaper, gently draw the tips of your fingers across it. Try to feel the texture of the grains on its surface. Relax your fingers, hands, fore- arms, shoulders, and chest. Take your time. Do this for several minutes.

After a few weeks of practice, you will be able to feel each individual grain of sand on the sandpaper. This allows you to feel the slightest sensation vibrate through your bones.

Try to remember to practice touching and feeling during your everyday experiences. Practice feeling wood, metal, and various other objects. Play with the feel of mechanical vibrations, even your television set. Try to sense the world around you as a source of information. This could and will open a whole new horizon of experience.

After a while, you will be able to feel or sense the movement of the tumblers of a Sargeant and Greenleaf safe. My first safe opened in three minutes because of that technique that took me years to discover.

VISUALIZATION

If you respect the security of the lock and do not become overconfident, you will never become disappointed if you fail to open it. You also increase your chances of opening the lock because you personally have nothing to gain or lose by opening it. Give up trying to be an expert and just pick the

lock.

With such an attitude, you may find the lock will usually pop right open. I never received a trophy for being the best lock picker in the state. My satisfaction is in knowing that I am never helpless in a lockout situation. The quality of your success is almost romantic; it involves sensitivity and compassion in the face of curiosity as a means to help others.

Visualization and imagination are important to the lock picker. I've noticed that people who have the ability to visualize the internal parts of the lock that they are picking seldom fail to open it in moments. Anyone can learn to do this by simply remembering to do it while picking a lock. Since sight, sound, and touch are involved with the process, visualization is very easy to do. Try to keep all of your attention on the lock during the picking process. This will help you to learn how to use heightened sensitivity for picking locks.

So in that respect, an unopened lock is like a new and unexplored lover. You imagine all of the qualities of an attractive person whom you've just met and apply that feeling to the lock that you are picking. Use visualization. It will help immensely.

(Note: All this Zen stuff may sound like a load of shit, but it's not. I myself cannot pick a lock unless I am comfortable. If I am craving a cigarette or I am hungry or something else like that, I have a difficult time opening a lock. Also, attitude is important. Don't show off.)

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Automotive Locks

Unlike the locks on your home, the locks on most automobiles are high security locks. They normally can't be picked without physically modifying the lock. For this reason, people look for other methods of entry. Alternate methods normally include either inserting a device into the door via the weather strip, or prying the top of the door open slightly so that a rod can be inserted to manipulate the lock handle.

Prying the door open takes some skill to avoid damaging the vehicle. So it's rarely used unless absolutely necessary. That leaves us with manipulation inside the door.

Contrary to popular belief, the devices known and **Slim Jims** don't work on any modern vehicles. Although some people can get them to work, they aren't using the device in its intended way, and it normally takes some skill to get the lock open.

What you'll find out, is that almost every vehicle requires a different device to open it. These devices are normally just bent rods, but the bends are often somewhat complex. And not only does each vehicle require a different tool, but each tool has to be applied in a different manner.

On some vehicles, such as those with side-impact air bags, there is the risk of doing hundreds of dollars worth of damage if extreme caution is not taken. In any vehicle with power windows, locks, or mirrors, there's the chance of pulling a wire out. So don't go practicing just for the sake of practicing unless you're prepared to pay for any damage.

Due to the vast number of tools and techniques involved, it's impractical to post them all here. Rather, I'm going to point you to a book by Steve Young at [Tech-Train Productions](#) which explains how to make the tools and how to unlock almost all vehicles. To purchase the book, click [here](#). Then click on "Steve Young's Quick Entry Car Opening Manual". You don't have to prove you're a locksmith to purchase the book. It currently sells for \$79.95. (Note: I am not affiliated with Tech-Train Productions in any way).

I plan to post some of the techniques and tools used over time.

How to make lock picks

In order to make any pics, you'll need a grinder. Of course you could try to make them with a file, but considering the time that would take, you'd be better off purchasing a set for \$15. But if you do have a grinder, why pay that for 5 minutes worth of work? There really isn't anything sacred about these picks. All measurements can be guestimated and still result in a pick just as functional as any commercial pick on the market.

Important Note: When you're done making your tools, be sure to sand the head and shaft of your tool where the grinder was used. If the edges are not smooth, your tools will not glide smoothly across the pins in a lock. So make sure there are no visible marks on any portion of the tool which will come into contact with the lock.

Measurements

The measurements don't have to be exact, but they can't be too far fetched either. In the following table "Commercial" applies to the images on this page. All images are of the same scale (when viewed full size). The optimal size depends on the size of your hands and the size of objects you feel comfortable working with. Don't automatically assume you should stick with the size which commercial picks are made, experiment.

Piece	Commercial	Acceptable
Shaft length	1.50 inches	1.25-2.00 inches
Shaft height	0.1875-0.0625 inches (tapered)	Same
Handle	3.00 inches	2.00-4.00 inches
Double sided pick	4.00-4.50 inches	3.50-5.00 inches
Torque wrench head	0.50-0.75 inches	0.50-1.00 inches
Torque wrench handle	3.00 inches	2.00-4.00 inches

Materials

The material which best suits the manufacturing of picks is hacksaw blades. They're only about 50 cents each, and you can make about 3-5 picks out of each one. If you want a nice handle on your pick, you can use a small screw driver, and just grind down the sides. But I find the handle gets in the way more than it helps.

For torque wrenches, I recommend an allen wrench which is about one or two sizes too big to enter the keyway. Then taper the head so that it slips easily into the keyway. The taper will allow you to use the same wrench on most locks you encounter. Other acceptable materials are: screwdrivers, paper clips, forks (with all but one prong removed), etc.