

Order-No. 3600-SK

WENDT

Sicherheits- und
Aufsperrentechnik



ZIEH-FIX® Electro-Pick Set



The cordless rechargeable electric pick gun works after the principle „Transfer of Energy“. The necessary hit frequency as well as the hit hardness of the pick is produced by an eccentric motion. That way a simple opening of pin and disk tumbler locks with several pins is possible.

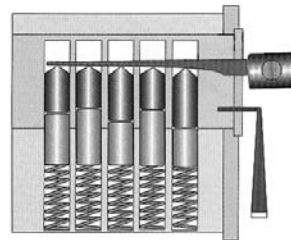
The electro-pick allows to duplicate exact raking motion at many times per second. The gun rakes open pin and disc tumbler cylinders using a rapid up and down striking movement, which causes the top and bottom pins to separate, meeting the shearline.

This tool meets all future requirements through continuous new developments of pick needles and accessories from our production.

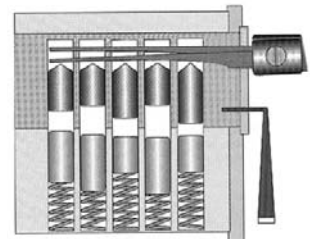
- *Developed and made in Germany by A. Wendt GmbH*
- *for high standards*
- *manufactured with extremely precision*
- *simple handling*

Content of the completely set:

3600	ZIEH-FIX® Electro-Pick Set comes in a plastic case with following accessories:
3516E	5 pcs. Pick „Novum“ Straight Blade, 0,5 mm
2701E	5 pcs. Pick „Novum“ Straight Blade, 0,8 mm
3517E	5 pcs. Pick „Novum“ Angel Blade, 0,6 mm
2702E	2 pcs. Pick „Novum“ Angel Blade, 0,8 mm
3479	1 pcs. TR-13, Tension Wrench, 13.35 mm
3480	1 pcs. TR-4, Tension Wrench, 5.7 mm
3488	1 pcs. TEN-2, Tension Wrench, 1.9 mm
3491	1 pcs. TEN-5, Tension Wrench, 3.8 mm
3498E	Torque & Tension Tool
3501E	„Flipper“ Tool
3620	ZIEH-FIX® Novum Pick-Needle Set Charger 120 VAC - 240 VAC



Introduce the pick needle and apply rotational tension to the plug,



Vibrate the pins out of the shearline and turn the plug

Important additional tools contained in the set:

ZIEH-FIX® Pick-Needle Set „Novum“














As the inventor of the electro picking method we gathered experiences in the daily practice and we found out that it is necessary to manufacture further pick needles in different forms apart from the three common needles.

Some of the extremes codes in locks can be manipulated only with "Novum" pick needles.

- *Developed and made in Germany by A. Wendt GmbH*
- *The opening possibility of high-quality locks is essentially increased!*
- *Hand finished stainless steel pick needles*
- *„Lockmaster®“ leather case*
- *39 pick needles in 13 forms*
- *1 tension wrench*
- *1 handle to use the needles for handpicking*



ZIEH-FIX® Pick Needles „Novum“ from own production

Order No. 3515E		Pick „Novum“: Rake Tip, diamond, 5 peaks
Order No. 3516E		Pick „Novum“: Straight Blade
Order No. 3518E		Pick „Novum“: Curved Blade
Order No. 3621E		Pick „Novum“: Rake Tip, 1 peak
Order No. 3622E		Pick „Novum“: Rake Tip, 2 peaks
Order No. 3623E		Pick „Novum“: Rake Tip, 3 peaks
Order No. 3624E		Pick „Novum“: Rake Tip, half peak
Order No. 3625E		Pick „Novum“: Rake Tip, change
Order No. 3626E		Pick „Novum“: Rake Tip, 6 peaks
Order No. 3627E		Pick „Novum“: Rake Tip, Diamond Tip
Order No. 3628E		Pick „Novum“: Rake Tip, 6 peaks, double-edged
Order No. 3629E		Pick „Novum“: Rake Tip, 5 peaks
Order No. 3630E		Pick „Novum“: Rake Tip, Half Ball Tip

We reserve the right to change forms in the individual case!

„Flipper“ Tool

The cylinder plug accelerator „Flipper“ is used after successful picking the lock with. The accelerator is thrilled according to the necessary rotation direction and removes the cylinder plug after release of the tension in a fast rotation, so that the pins don't drop back into the pin's drill holes of the cylinder housing and will possibly lock. The „Flipper“ will flip the cylinder plug past the upper pins and save you the job of repicking.

The „Flipper“ comes with two exclusive features. The two pins, quick lock/release feature allows for easy release of the rotating action. The sure stop feature prevents overwinding in either direction.

- *left-turning and right-turning*



Spring-controlled Tension Tool



Incorporates spring loaded adjustable prong with other spring-controlled tension.

Incorrect tension is one of the most common causes of picking failure. Use of this tool provides an easy method to apply the correct amount of tension every time.

The dual prongs assure even torque, always keeping the plug in proper alignment. The integrated spring activates the tension at the cylinder plug.

This tool replaces a variety of tension tools in picking. It is smaller, feather weight and can be adjusted universal to the size of the keyway by the dual prongs.

Function description

Tension

One of the main reasons for unsuccessful attempts of opening with picking tools is the ignorance how important the proper tension is.

Tension is used merely for disarrange the cylinder plug against the cylinder housing and creating small landings (steps) in the shearline between plug and housing.

In picking the pins or disks of the lock should be fixed under as well as above this landings so that the shearline is free and the plug can be turned.

So that the pins or disks can be brought into the right position with a picking tool, they must be able to be moved despite of the tension.

If the tension is too light, the pins won't stay picked, too heavy and the pins will bind.

A sensitive feeling, the correct selection of the necessary tension tool and the correct positioning in the keyway are basic prerequisites for a successful opening.

The tension tool should be selected accordingly to the size of the keyway. It should be placed in the keyway so that it doesn't block the first pin nor the first disk of the lock and doesn't hinder the vibrant pick needle of the electro-pick or restrict in the stroke.

Our tip:

- If possible insert the tension wrench in the cylinder plug near the shearline.
This position is normally the bottom of the keyway.
- Apply only so much tension that the tension wrench can not fall out of the keyway.

Electro-Pick

In principle the straight needle is inserted in the clamping of the electro-pick at first, while working at unknown locks. In order to prevent a destroying of the fine screw thread of the tightening bolt, tight the bolt only hand-tight.

Now apply tension to the plug and insert the needle of the electro-pick in the keyway of the plug.

The pick needle must be axial over or under the pins or disks depending on the lock. The pins or disks should not be touched yet in this position.

Therefore, the pick needle must be located with minimal distance over or under the pins or disks depending on the lock,

The pick needle is inserted into the keyway as far as all pins or disks can be moved from the pick needle simultaneously. However, don't insert the pick needle too far into the back of the keyway, otherwise solid prefabricated parts from the lock can block the needle or the lifting of the needle can be restricted.

Turn the electro-pick in a way, that the needle can raise

to strike in the profile of the keyway as far as possible and that the needle knocks against the profile as little as possible when striking.

The most profiles are not cut straight, they have easy curvatures to the right or to the left.

Now, if the pick needle is located in the middle above or rather, according to the lock, under the pins or disks, the electro-pick can be released by pressing the pressure switch.

Let the pick needle strike only in short intervals. This considerably raises the chance to open the lock.

A permanent striking of the pick needle against the pins or disks raises only the wear and tear of the needle and won't lead to the desired opening!

After some intervals the plug should rotate in direction of the chosen tension, i.e. all pins or rather all disks are out of the shearline. The shearline is consequently free and the lock opened.

If the lock can't be opened after several attempts, firstly another tension will be used, either reduced or reinforced.

If these alterations also don't lead to the opening of the lock, try some of the other differently molded pick needles of the pick needle set „Novum“.

The choice of the next pick needle in use depends on the profile of the keyway and on the pins or disks in the lock, which can show different forms, heights and tolerances.

A general instruction, which pick needle will use with which lock, doesn't exist and cannot be made because of the different structural qualities of locks.

In the most unfavorable case all pick needles have to be tried.

Notice:

Many high-quality locks contains particular pins or disk forms that should make the locks unpickable. At pins the driver pins are especially shaped to catch on the shearline (Spool Pin, Mushroom Pin, Serrated Pin). With disks, the lateral surfaces are equipped with a pattern, similarly to a saw. Both forms are used for catching the notches as well as the saw pattern in the shearline already when practicing the tension and consequently prevent a moving of the pins as well as disks into the opening position.

Normally this pick-resistant locks cannot be opened with picking tools. The plug will turn approximately 1-2 mm and then stop.

This stop of the plug appears at accordingly secured locks also at opening attempts with the electro-pick.

To be still able to open the lock the way to apply tension must be changed. Best results can be succeeded, if the practised tension pulsates, i.e. the tension is placed and solved in intervals as short as possible.

Simultaneously let the electro-pick strike and try to open the lock.

Every time the "pick-resistance" grabs and the plug is stopped after a short rotation, the tension is to be solved completely and a new attempt to open the lock has to be started.

Explanation:

By picking with handiwork picks the plug must be held under tension from beginning on so that landings (steps) are built between plug and housing. According to the lock the pins or disks can be fixed above or under the shearline.

Here, the "pick-resistance" immediately grabs; the pins or disks cannot be moved.

With the electro-pick and pulsating tension you try to strike the "unpickable" pins or disks into the opening position at that moment when no tension is practiced. If the pins or disks now would like to slide into the locked position again, the tension should already be used. Then the landings (steps) exist again, the shearline remains free and the lock is opened.

Our Tip:

- The shorter the intervals in the change of tension between „on“ and „out“ are the bigger are the chances for opening.
- Also when practicing the "pulsating" tension you have to notice the named basics in the paragraph "Tension".

Important:

• ***Before the first use load accumulators!***

With delivery of the tool the accumulators are not loaded fully. Before the first use of this tool load at least 12 hours.

• ***Only use the included charger!***

The use of another charger can damage the tool.

• ***The tool can be loaded permanently!***

Charger and tool are constructed in a way that the tool can be loaded 24 hours.

For normal demand or use a charging time of 4-5 hours is enough.

• ***Don't dive the tool in liquids!***

Don't let penetrate any liquids into the tool!

• ***The tool is maintenance-free!***

The electro-pick was lubricated sufficiently in the factory.

Cleaning only with a moist cloth.

Don't use chemicals, gas, turpentine, lacquer thinners etc.!

• ***Don't build apart the tool!***

All repairs have to be executed only by the manufacturer.