

# Induction Coded Lock

Dear Customer:

First of all, thank you for buying our product. Our company produces several hundred kinds of goods each of them being the result of our painstaking efforts and wisdom. On the principles of Quality First, Service First, and Customers First. Our company wishes to honor you with our products. We will launch a series of new magic quiz products. Thanks for your support and deep concern about our company!

Next, please read the instructions carefully. Look at each word and each picture as well with care. Wish you become a happy player

## Effect:

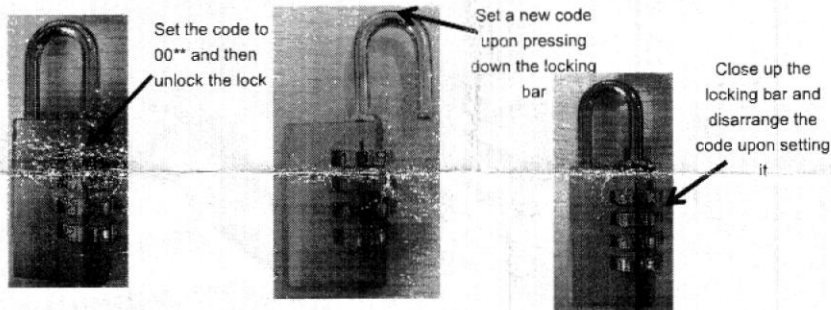
A brass encoded lock cannot be unlocked by the audience, whatever they try. After going through the magician's induction, however, it can be unlocked by the audience if they work out randomly the birthday or cell phone number of a friend of their.

## Secret:

Only the first and second code dials of the lock are usable while the third and fourth ones are false. Adjust only the first and second digits when setting a code, regardless of the third and the fourth

## Preparation:

Set the first and second digits to "00" by aiming them at the red line. Release the locking bar, turn it to the other side, and press it down. Set a new code, such as 19\*\*, pull up the bar, close it up, and disarrange the code.



1. Produce the prepared lock and ask the audience work out a code randomly. See if the lock can be unlocked upon aiming at the red line.
2. The lock cannot be unlocked, whatever codes the audience tries.
3. Looking at the lock, the magician pretends to perform an induction and then asks the audience work out randomly the birth year of a friend other than born not long ago. The audience is asked to unlock the lock with the year as the code
4. The audience really unlocks the lock with the friends birth year

## Analysis of the principle

Since all people were born in the 20th century except for those born after 2000 and only the first and second digits of the coded lock are usable, the audience can unlock the lock with whatever birth year of a friend he works out.

5. Take back the unlocked lock and set the code to 13\*\*. When the audience wants to unlock the lock with the birth year of another friend, the lock cannot be unlocked again.
6. Now ask the audience work out the cell phone number of a friend to unlock the lock, since domestic cell phone numbers start with 13\*\*, the audience can unlock the lock again on the unlocking principle.
7. Take back the lock and change the code once again.

## Clue:

You can also work out other juggleries on the principle