

## GJ Locks Union/Chubb/Yale Decoder

This kit can be used to successfully decode and open the BS3621 Chubb 3U114 and the Union and Yale versions of the same lock.



The lock can be identified by colour, silver for Chubb, red for Union and grey for Yale. 5 gauge key way, an open ended hard plate and a silver curtain which has a notch at the top. The older versions of this lock will decode the same. These locks are identified by having a stepped hard plate.



### **Method:**

Using one of the supplied reader keys, plasticine is placed onto the milled part of the flag. Then using the impression jig the plasticine is pressed and smoothed until it represents a full blank key. The supplied craft knife can be used to trim the edges so a neat finish is achieved.

To ensure an accurate reading, it is very important that the impression key is methodically prepared each time a reading is taken. DO NOT be tempted just to smooth your finger over a previous reading. This will give a miss read, If the key is prepared carefully each time then the reading you will get will be very easy to decode the first time. A badly prepared key will mean you will have to run quite a few key combinations before you get the right one.

**DO IT RIGHT THE FIRST TIME.**

Take the reading in the locking direction (back of the levers) Turn the key fully so it lifts the levers in one go, then remove and examine the key.

**Bolt      6/7    5      4      3      2**



Number 1 lever will not leave a mark.

Numbers 6 and 7 will leave a very similar long mark so try both when building the key.

### **Loading The Key:**

As these locks use an ABA pattern, there are 7 lever lifts on the key but only 5 need to be used to open the lock. The rotation of the curtain retracts the bolt, not the key. Therefore you only need to load the correct 5 lifts onto the shaft to successfully open the lock.

You can construct the full symmetrical 7 lifts of the key if you wish, but if you only want to open and close the lock from the same side you may only wish to load 5 lifts. On a left mounted lock, after inserting the key you would turn slightly and pull the key back towards you. Thus ensuring that the key bits are under the correct levers. If the lock was right mounted then you would insert the key, turn slightly and push the key away from you to ensure the same.

The ABA pattern:    **D-C-B-A-B-C-D**

Left hand lock:    **\_ - \_ B-A-B-C-D**

Right hand lock:    **D-C-B-A-B-\_-\_-**

**\_** = where the bolt is situated in the lock.

# Older Non BS Union, Chubb, Yale

This kit will also decode and open the older Non British Standard 5 lever lock also made by Union, Chubb and Yale.



## **Method:**

Using the smaller reader keys, plastercine is placed on the milled piece of the flag. Using the supplied jig, the plastercine is levelled off and trimmed to size using the supplied blade.

As before it is vital that you take great care to get the plastercine as neat as possible, this will ensure you get a good reading from the lock.

Bolt      5 4 3 2 1



**Un Locking direction**

1 2 3 4 5      Bolt



**Locking Direction**

**6 and 7 read the same and run the full length of the keys.**

To simplify using this tool, the numbers on the decode do not correspond to the actual levers in the lock but they do match the key bits that are needed to open the lock.

There is no number 1 lever in the range, the levers are actually 2,3,4,5,6,7  
But the number 2 lever opens using the number 1 key bit in the kit, number 2 lever opens with the number 3 key bit and so on.

This just makes the kit easier to use and saves confusion marking the key bits up twice.