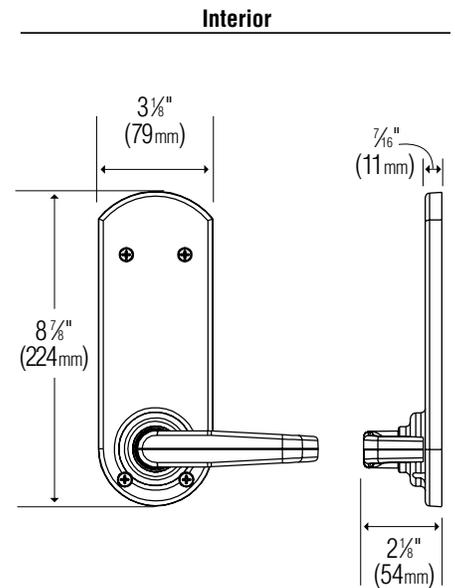


## Extra Heavy-Duty Primary Locks

SIMPLEX® 5000



Exterior



Interior

### Application

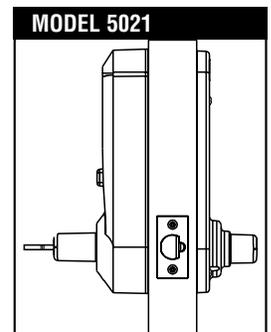
The Simplex 5000 lock provides fully mechanical pushbutton access control without any wiring, electronics or batteries. Exterior access is by combination. Egress is by interior lever and is free at all times. Lock is ADA (Americans with Disabilities Act) compliant.

The Simplex 5000 is ideal for controlling access to high-traffic, security-sensitive areas in commercial, industrial, educational, governmental, lodging, and multi-unit residential settings. Perfect for locations with a high user turnover rate such as data processing centers, employee entrances, R&D labs, apartments, dormitories, and restricted areas in hospitals and airports.

### Features

- Mechanical pushbutton strength and reliability.
- Keyless convenience.  
Eliminates problems and costs associated with issuing, controlling, and collecting keys and magnetic cards.
- Combination can be quickly and easily changed to ensure continued maximum security once employees, tenants, or guests leave.  
Thousands of possible combinations.

- Easy to install: Installs easily on wood or metal doors. No electrical wiring or computers required for programming. Fully contained front and rear housing assemblies install in minutes.
- Non-handed: One lock for both left- and right-hand door applications.
- Easy to maintain: No batteries, and fewer parts to maintain during life of lock.
- User friendly: One-hand operation. Short lever travel distance with an ergonomically correct design. Latch retracts when lever is turned in either direction.
- Mechanical key override: Used to override the lock combination and gain access using a key. Permits facilities to initiate or maintain their master-keyed security system.
- Direct drive: Eliminates potential breakage in critical internal links.
- Rugged and weather-resistant: Lock is wear tested for intensive use.
- Two-year warranty.



## Specifications

### Construction

Extra heavy-duty cylindrical lock housing; solid cast housings; solid cast zinc levers, stainless steel cylindrical drive components

### Certifications

ANSI/BHMA A 156.2, Grade 1 Certified

### Compliance

Three-hour U.L./U.L.C. Fire Door Rating  
ADA (Americans with Disabilities Act)

### Key Override

Conventional key-in-lever cylinder with Kaba Ilco 15395 cylinder included. Schlage C keyway, keyed different. Tailpieces included for compatibility with the following cylinders:

Abloy 5277	Abloy 5477	Arrow C 100
ASSA 65611	ASSA 65691	Australian
Corbin Russwin 2000-03	Kaba Ilco 1599	Kaba Ilco 15395
Marks	Medeco 20W200H1	Sargent 10 Line
Schlage 23-001	Schlage Primus 20-760	

### Strike

ASA strike plate

### Backset

2 3/4" (70mm)

### Door Thickness

1 3/8" (35mm) to 2 1/4" (57mm). Preassembled to accommodate doors 1 1/2" to 2" (41 to 51mm).

### Installation

Easily installs on wood or metal doors. ASA 161 door preparation with two (2) additional through bore holes. Retrofits cylindrical and tubular locksets with a 2 3/4" (70mm) backset.

### Door handing

Non-handed lock, preassembled for left-hand door installations—can be easily changed in the field.

### Items Supplied

Complete lock, latch, ASA strike, Installation Manual, template, Kaba Ilco 15395 cylinder, two nickel plated brass keys, five tailpieces, spare cylinder retainer, spare inside lever set screw, lever release combination change tool, hardware required for installation, and hardware required for thin and thick door installations.

### Weight

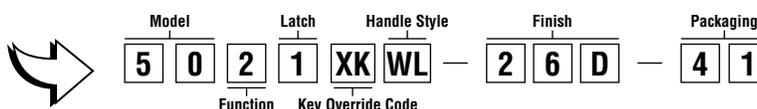
8.0 lb (3.65 Kg)

## Ordering Information

### Example

Model 50 Cylindrical Lock with 1/2" (13mm) floating front throw latch, Key-In-Lever Cylinder (included), Lever Handle, Satin Chrome Finish, packaged 1 per box.

Build the part number with the features you require:



Model	Function	Latch	Key Override	Handle Style	Finish	Packaging	Price
50	2	1	XK	WL	26D	41	\$425.00
		5					

#### Model

50 5000 Series Cylindrical Lock

#### Function

2 Entrance

#### Latch

1 1/2" (13mm) floating front throw latch  
5 3/4" (19mm) beveled front throw latch

#### Key Override

XK Key-In-Lever Cylinder, Cylinder Included

#### Handle Style

WL Lever

#### Finish

26D (626) Satin Chrome

#### Packaging

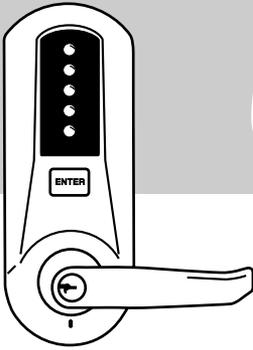
41 1 per box; 15 per case



Your Total Access Partner.

KWS 5000-02-R01-04/02

2941 Indiana Avenue • Winston-Salem, NC 27105 • Phone: (800) 849-8324 • (336) 725-1331 • Fax: (800) 346-9640 • (336) 725-3269



**SIMPLEX** <sup>®</sup>  
**5 0 0 0**

**Cylindrical**  
**Cylindrique**  
**Cilíndrica**

*English*

**Installation Instructions**

*Français*

**Instructions d'installation**

*Español*

**Instrucciones de instalación**



Your Total Access Partner.

## TABLE OF CONTENTS

---

Tools Required	3
A. Door Preparation	4
B. Lock Handing	5
C. Door Thickness	5
D. Installing Outside Unit Assembly	6
E. Installing Inside Unit Assembly	6
F. Installing The Inside Lever	7
G. Changing Key-In-Lever Cylinder	8
H. Installing/Removing Outside Lever	9
I. Testing The Operation Of The Lock	10
J. Installing The Strike	11
K. Changing Combinations	12
L. Installing Rubber Bumpers	14
M. How To Reset A Lost Or Unknown Combination	15
N. Trouble Shooting	19

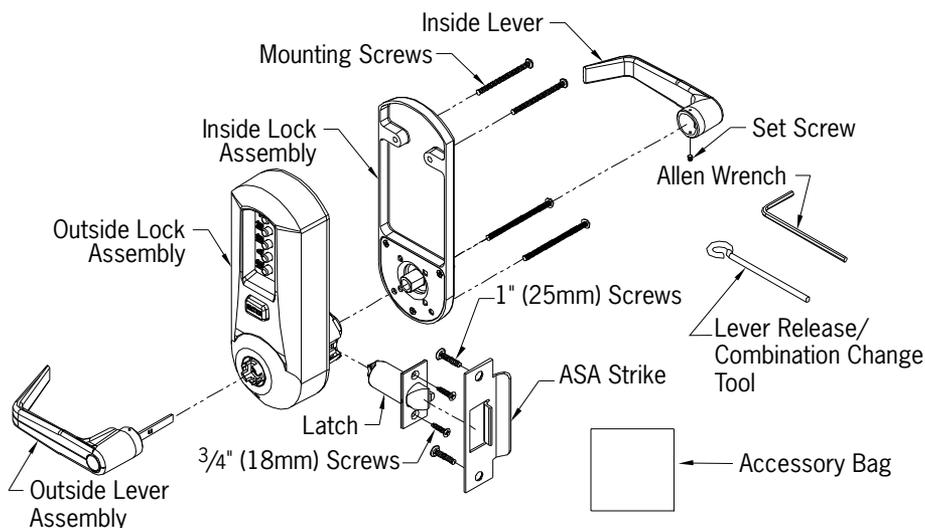
---

## OPERATION



### Warning

*The combination of this lock has been factory preset; 2 and 4 depressed together, then 3 and then ENTER. For your security, the combination must be changed at time of installation.*



The Simplex 5000 is a non-handed lock that is preassembled for left-hand installations. It is field reversible.

### TOOLS REQUIRED

- Electric drill (variable speed)
- Awl or center punch
- 2 1/8" (54 mm) hole saw pilot drill
- 1" (25 mm) hole saw pilot drill
- 1/4" (6 mm) drill bit
- 1" (25 mm) wood chisel
- Hammer
- Phillips head screw driver
- Small flat blade screwdriver

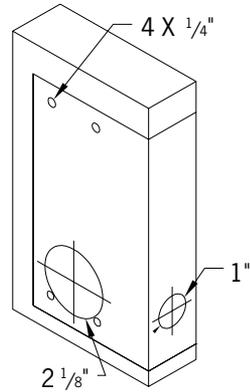


Your Total Access Partner.

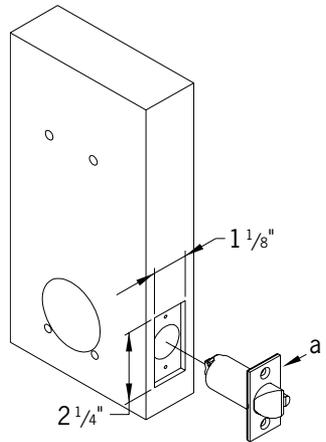
For technical assistance please call  
 1-800-849-TECH (8324) or 1-336-725-1331

## A. DOOR PREPARATION

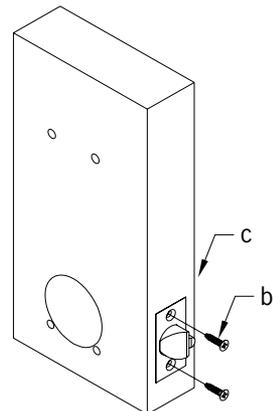
**A-1** Place paper template (supplied) onto door and mark for holes. Drill the four  $\frac{1}{4}$ " (6mm) holes first. Next drill the  $2\frac{1}{8}$ " (54mm) cross bore hole. Drill the 1" (25mm) hole last.



**A-2** Mortise door edge for latch unit faceplate (a)  $\frac{1}{8}$ " (3mm) deep to dimensions shown. Insert latch unit into the 1" (25mm) hole, making certain that the latch bolt bevel faces direction of closing door.



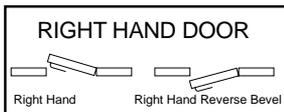
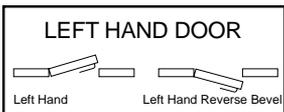
**A-3** Secure the latch to the door using two  $\frac{3}{4}$ " (19mm) combination screws (b) supplied. Latch unit faceplate must be flush with door (c).



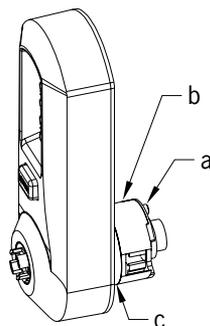
## B. LOCK HANDING

The Simplex 5000 is a non-handed lock that is preassembled for left-hand door installations.

**B-1** Determine the hand of your door. For left hand doors, proceed to Section C. For right hand doors, follow steps in B-2.



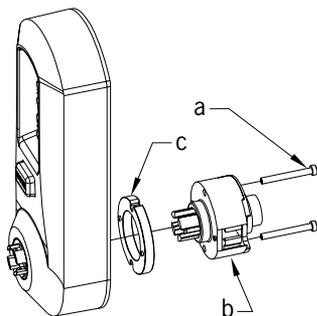
**B-2** Remove the two connecting screws (a) from the cylindrical drive unit (b). Rotate cylindrical drive unit 180 degrees. Reposition spacer (c) as found before disassembly. Remount drive unit with the two connecting screws removed.



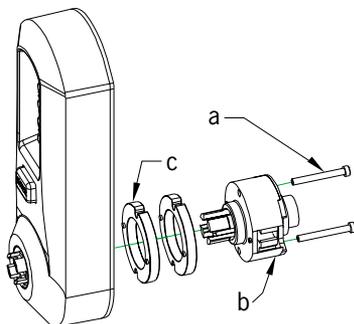
## C. DOOR THICKNESS

The Simplex 5000 lock is preassembled to accommodate standard door thickness 1 5/8" (41mm) to 2" (51mm).

**C-1** For thinner door 1 3/8" (35mm) to 1 1/2" (38mm) remove the two connecting screws (a) from the cylindrical drive unit (b). Remove and discard the spacer (c). Remount drive unit with the two connecting screws removed.

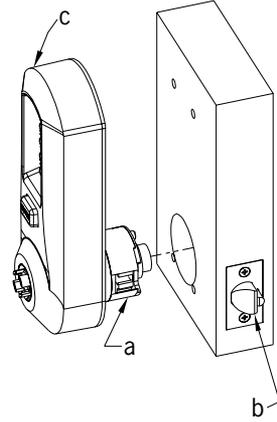


**C-2** For thicker door 2 1/8" (54mm) to 2 1/4" (57mm) remove and discard the two connecting screws (a) from the cylindrical drive unit (b). Add extra spacer (c) supplied. Remount drive unit using two longer 1 5/8" (41mm) connecting screws supplied.

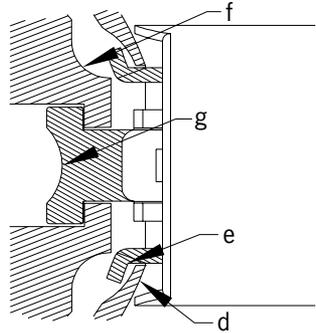


## D. INSTALLING OUTSIDE UNIT ASSEMBLY

**D-1** Slide the drive unit (a) into  $2\frac{1}{8}$ " (54 mm) cross bore hole by depressing latch bolt (b) in slightly until the outside unit assembly (c) rests flush against the door.

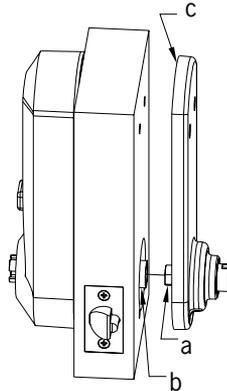


**D-2** The drive unit (d) must engage the latch unit prongs (e) and the shoe retractor (f) must engage the latch unit tailpiece (g) as shown.



## E. INSTALLING INSIDE UNIT ASSEMBLY

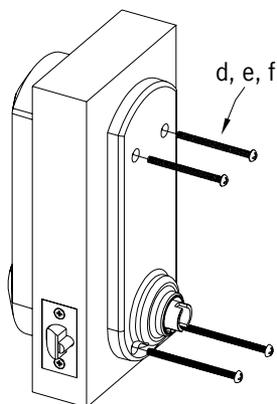
**E-1** Slide the lever hub (a) into the drive sleeve (b) until the inside lock assembly (c) rests flush against the door.



**E-2 For standard door thickness 1 $\frac{5}{8}$ "(41mm) to 2"(51 mm),** secure the outside and inside lock assemblies to the door by using four 3"(76mm) screws (d) (supplied) in all four holes as indicated.

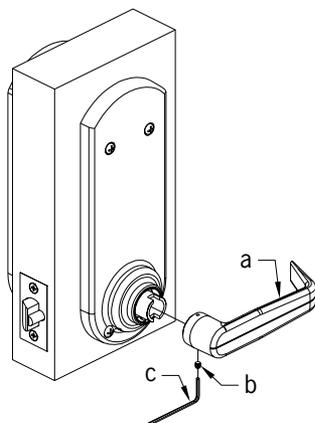
**For thinner door 1 $\frac{3}{8}$ "(35mm) to 1 $\frac{1}{2}$ "(38mm),** secure the outside and inside lock assemblies to the door by using four 2 $\frac{5}{8}$ "(67mm) screws (e) (supplied) in all four holes as indicated.

**For thicker door 2 $\frac{1}{8}$ "(54mm) to 2 $\frac{1}{4}$ "(57 mm),** secure the outside and inside lock assemblies to the door by using four 3 $\frac{1}{4}$ "(82mm) screws (f) (supplied) in all four holes as indicated.



## F. INSTALLING THE INSIDE LEVER

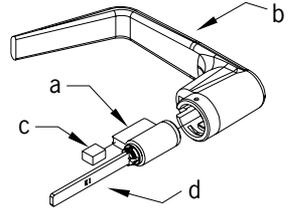
**F-1** Insert the inside lever (a) onto the inside lock assembly. Secure the inside lever with the  $\frac{3}{8}$ " (5mm) set screw (b) (supplied) using the Allen wrench (c) (supplied).



## G. CHANGING KEY-IN-LEVER CYLINDER

The Simplex 5000 outside lever comes preassembled with Kaba Ilco's key-in-lever cylinder (Kaba Ilco 15395). To use a different key-in-lever cylinder follow remaining steps in this section.

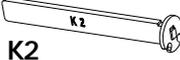
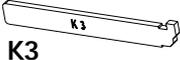
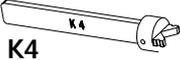
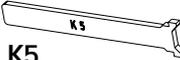
**G-1** Remove KIL (key-in-lever) cylinder (a) from the outside lever (b) by removing the cylinder retainer (c) using a small flat blade screw driver or small needle nose pliers.



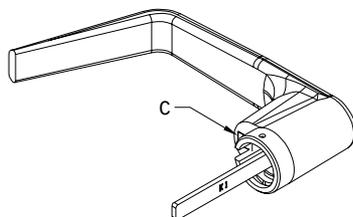
**G-2** Determine the proper tailpiece (d) from the chart below for your KIL cylinder.

**You must use a Kaba Ilco tailpiece. The K 1 tailpiece is preassembled with the Kaba Ilco 15395.**

**G-3** Assemble the required tailpiece (d) (supplied) with your KIL cylinder.

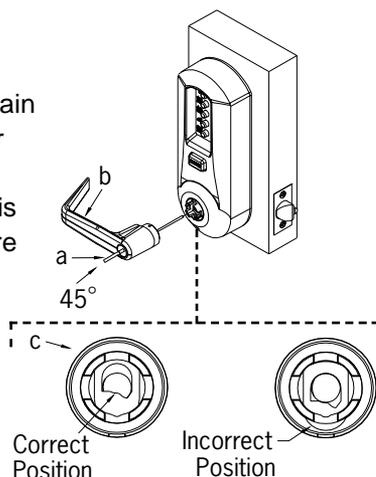
TAILPIECE	KIL CYLINDER
 <p>K1</p>	<p>Abloy 5277, Abloy 5477, Assa 65691, Kaba Ilco 15395</p>
 <p>K2</p>	<p>Assa 65611, Australian, Corbin-Russwin 2000-03, Kaba Ilco 1599, Schlage 23-001, Schlage Primus 20-760</p>
 <p>K3</p>	<p>Medeco 20W200H1</p>
 <p>K4</p>	<p>Arrow C100, Sargent 10 LINE</p>
 <p>K5</p>	<p>MARKS</p>

- G-4** Insert the KIL cylinder into the outside lever and secure it with the cylinder retainer (c) until the KIL cylinder is snug and unable to move freely.



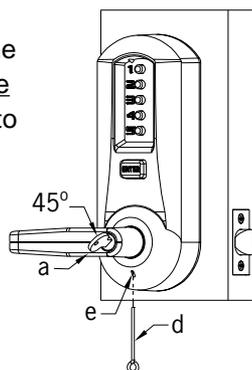
## H. INSTALLING/REMOVING OUTSIDE LEVER

- H-1** Insert one of the (supplied) keys (a) into the outside lever (b) and rotate key counterclockwise 45 degrees. Make certain the lever catch is up as shown (c). Lever catch should be flush around the entire diameter. Insert the outside lever until it is flush to the outside unit assembly. Secure the outside lever by rotating the key clockwise 45 degrees to horizontal position. Remove key.



**Note: To remove the outside lever from the outside unit assembly follow step below.**

- H-2** Insert one of the (supplied) keys (a) into the outside lever and rotate it counterclockwise 45 degrees. Insert lever release tool (d) into the small hole (e) under lever as shown. Gently push lever catch up until it clicks. Remove tool, then remove outside lever.



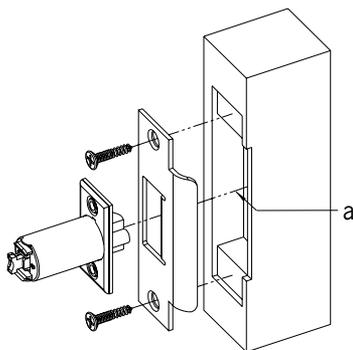
# I. TESTING THE OPERATION OF THE LOCK

- I-1 Rotate inside lever and hold. Ensure that the latch is fully retracted and flush with the latch faceplate. Release the inside lever; the latch should be fully extended.
  
- I-2 Enter the factory-set combination: Depress buttons 2 and 4 at the same time (& release), then depress button 3 (& release), then depress the “ENTER” button (& release). You should feel a slight click as each button is depressed.
  
- I-3 Rotate outside lever and hold. Ensure that the latch is fully retracted and flush with the latch faceplate. Release the outside lever; the latch should be fully extended. Press the “ENTER” button and release, then rotate outside lever. The latch should NOT retract.
  
- I-4 Insert one of the (supplied) keys into the outside lever. Rotate key counter-clockwise to stop position and hold. Ensure that the latch is fully retracted and flush with the latch faceplate. Rotate key clockwise to horizontal position and remove key. The latch should be fully extended.

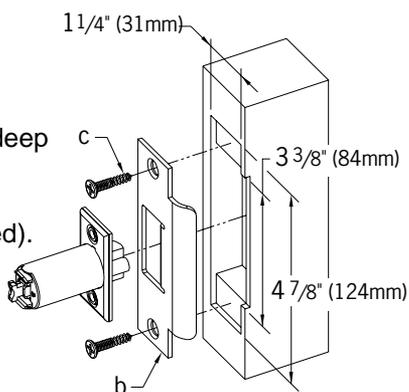
## J. INSTALLING THE STRIKE

**Note:** The latch and strike provided must be used.

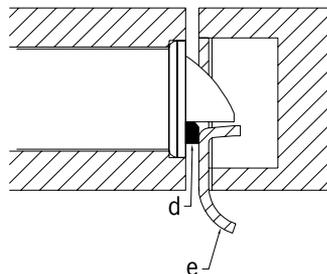
**J-1** Mark location of strike on the door frame, making certain that the strike opening is aligned (a) with latch bolt.



**J-2** Mortise doorframe for strike  $\frac{3}{8}$ " (3mm) deep minimum to dimensions shown. Secure strike (b) to the door frame using two 1" (25mm) combination screws (c) (supplied).



**Caution:** Check the operation of the latch by making sure that the deadlatch (d) stops against the strike (e) as shown and does not slide into the strike opening when the door is closed. If that situation occurs, then a total lockout may occur. This will cancel our warranty of the complete lock mechanism. If necessary, correct the door over-travel by using the rubber bumpers as described in Section L (Installing Rubber Bumpers).



## K. CHANGING COMBINATIONS

**Note:** The factory set combination of your new 5000 series: Press “2” and “4” at the same time, then release. Press “3”, then release. Press the “ENTER” button, then release. **For your security, the factory set combination MUST BE changed when lock is installed.**

The combination can be easily changed using one to five of the lock’s buttons in any order in the combination. Each button can only be used once. **Note: Three or more non-sequential buttons combinations are recommended for higher security.** Also, two or more buttons may be pushed together (at the same time) as part of your new combination.

**CAUTION: The door MUST BE open during this entire procedure.**

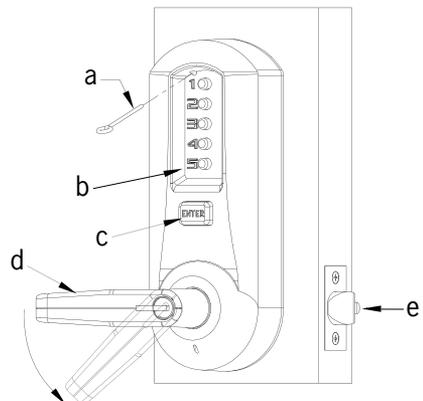
**K-1 Note:** The combination change can be done without removing lock from door. Ensure that the door is open during this procedure.

**Rotate the outside lever (d) once** to stop position and release **to reset** the lock; the latch should **not** retract.

**K-2** Press the **existing combination (b)** followed by the **ENTER** button (c) and release; do **not** turn the lever.

**K-3** Insert the lever release tool (a) through hole in number pad and gently lift up loop end of the tool to depress the interior code change button until you hear a **click**; remove tool and **do not** press any buttons.

**K-4 \*\*This Step Is Very Important\*\***  
**Rotate lever (d) once, and only once** to clear the old combination; the latch (e) **will** retract; release the lever.



**K-5** Press in your **new combination** (b) followed by the **ENTER** button (c) and release.

**K-6** Rotate the lever (d) to verify that the latch retracts confirming the validity of the **new combination**; (if you try the old combination now, it should not work).

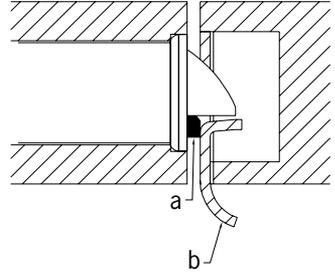
**IMPORTANT:** The “ENTER” button must be depressed and released after entering the combination. The latch will not retract until the “ENTER” button is depressed and released.

## COMBINATION SETTING RECORD

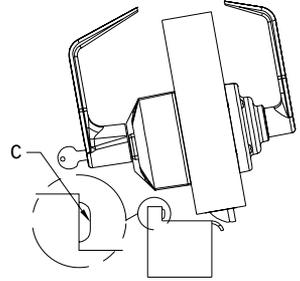
Combination	& ENTER	Date
	& ENTER	

## L. INSTALLING RUBBER BUMPERS

**L-1** Close the door and apply pressure making sure the deadlatch (a) rests on the strike plate (b) as shown. Standing on the frame (door stop) side of the door, check for gaps between the door and the frame on the three sides of the frame (left, right, and top).



**L-2** Mark locations where the gaps are approximately  $\frac{3}{16}$ " (5mm). Make sure these locations are free from grease and dust. Peel the bumpers (c) (supplied) from their protective backing without touching the adhesive surface and stick them on the marked locations.



**Note:** Allow 24 hours for adhesive to set before testing. The door may be operated normally during this time.

For technical assistance please call  
1-800-849-TECH (8324) or 1-336-725-1331

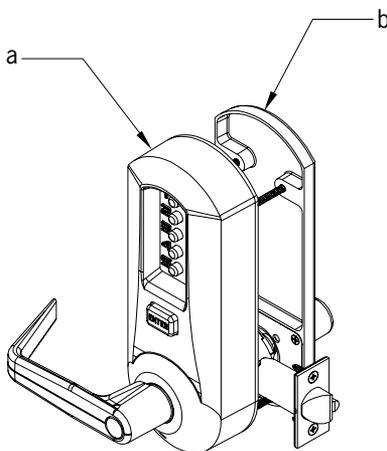
## M. HOW TO RESET A LOST OR UNKNOWN COMBINATION

There is no way to determine a forgotten, unknown or lost combination code from the front or outside of the lock. However, it can be reset and recovered or reset and changed to a new code by following the steps in this section.

**Warning:** Since this procedure is of a technical nature, only technically trained personnel in the lock and hardware field should undertake this operation. For further assistance, call the Kaba Ilco technical support line at 800-849-TECH (8324) or 336-725-1331 between 8AM and 5PM Eastern Standard Time, Monday through Friday (except holidays).

### M-1 Removing Lock From Door

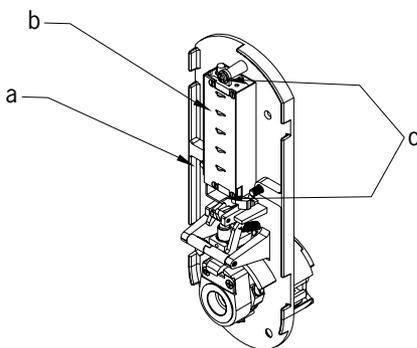
Remove both the outside lock housing (a) and the inside lock housing (b). (Reverse procedures from sections D and E of this manual.)



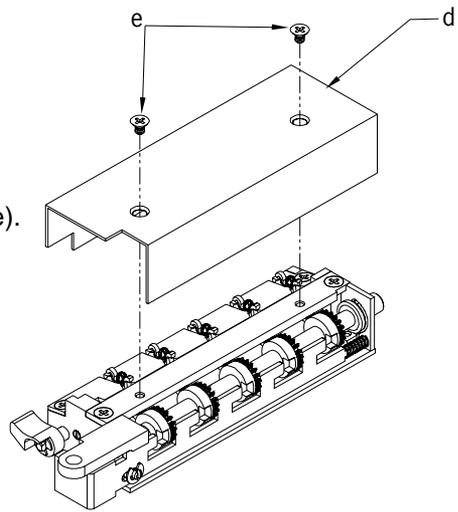
### M-2 Removing Combination Chamber Assembly

Carefully remove the base plate of outside lock assembly (a) by removing the 2 Phillips screws (one screw may be found under the serial number). Lay base plate down as shown.

Remove the combination chamber assembly (b) from the base plate by removing the 2 Phillips screws (c).

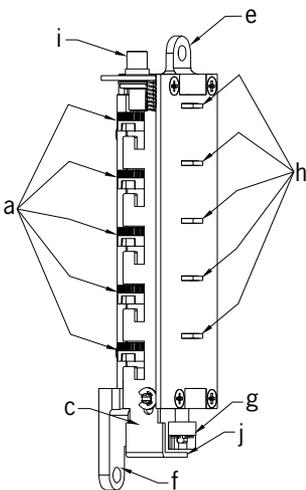
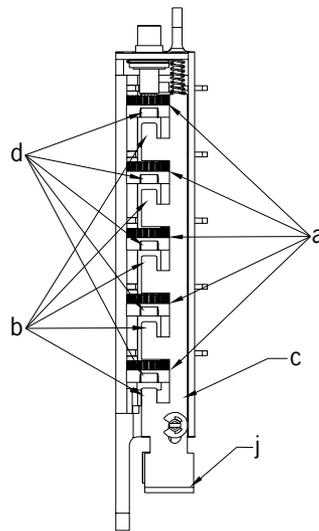


Remove the 3-sided dust cover (d) to fully expose the chamber by removing 2 small Phillips screws (e).



### M-3 Resetting and Recovery of Current Code

To reset the code gears (a), each one of the 5 “L” shaped legs (b) of the unlocking slide (c) must engage snugly with the corresponding code gear pocket (d) next to it.



Position the chamber in one hand, as shown. Hold chamber by the top screw tab (e) and bottom screw tab (f).

Rotate the reset cam (g) back toward you with your finger, towards the key stems (h) as far as it will go and then release.

Now look at the code gears (a) and the unlocking slide (c). Note that some or all 5 of the code gear pockets (d) are rotated **away** from the “L” shaped legs (b) as if out of alignment. Typically each code gear pocket will be at a slightly different distance compared to the other.

**Note:** Sometimes **two different** gear pockets are away from alignment by **exactly the same distance** – this indicates that the current code uses **two different number buttons** (example, 2 and 4) **depressed at the same time** as part of the code combination.

Using a small flat blade screw driver or your thumbnail, depress the key stem which corresponds to the gear pocket which has been rotated the **farthest away** (out of alignment) from the “L” shaped leg. When depressed, the key stem(s) should stay down and the corresponding gear pocket(s) should move closer to its corresponding “L” leg, closer to alignment.

Record the key stem number. This is the **first** number of your combination.

**Note:** If two gear pockets are at the **same distance**, depress **both** of these corresponding key stems **at the same time**.

Continue by pressing the key stem that corresponds to the gear pocket that was the **next furthest away** (do not include gear pockets that have already been rotated). Record each key stem number that is depressed. Continue this procedure until all five gear pockets are aligned with their corresponding “L” shaped legs on the unlocking slide. The combination is the recorded numbers, in the order recorded.

**Note:** If you depress the wrong key stem by mistake, rotate the reset cam back toward you, (toward the key stems and release). This resets the code gears and you must repeat the above procedure, M-3.

#### **M-4 Clearing the Current Code and Setting a New Code**

Perform the above procedure M-3 first.

Depress the code change button (i) located on top of the combination chamber once and release.

Rotate the reset cam back toward you with your finger (toward the key stems) as far as it will go and release.

Enter your new combination code by depressing the key stem corresponding to the first number (1 through 5) of your code. For example, if the new code is 3-2-5, then you would depress 3 first, then 2 and finally 5. Record this new combination code for future reference.

Push the shoulder (j) at the bottom of the Unlocking slide up toward the code change button and release. Rotate the reset cam (g) back toward you and release.

If each of the 5 “L” shaped legs of the Unlocking slide engages snugly inside its corresponding Code gear pocket, then it confirms that the new code has been successfully changed.

**Note:** If all 5 “L” shaped legs do not align fully with their corresponding code gear pockets, repeat the procedures M-3 and M-4.

### **M-5 Reinstalling chamber assembly into lock and retesting**

Reinstall the 3-sided dust cover over the combination chamber with the 2 small Phillips screws removed.

Reinstall the combination chamber assembly to the base plate with the 2 Phillips screws removed.

Reinstall the base plate on to the outside lock assembly with the 2 Phillips screws removed.

**M-6 Reinstall lock on door** by following the procedures in Sections D and E of this manual.

**M-7 Retest new code with lock on door** by entering the new numbers followed by the “ENTER” button and rotating the outside lever. The lock should open and the latch should retract.

For technical assistance please call  
1-800-849-TECH (8324) or 1-336-725-1331

## N. TROUBLE SHOOTING

SYMPTOM	POSSIBLE CAUSE	REMEDY
<p>1. The outside lever always retracts the latch after depressing and releasing the “ENTER” button only (without combination).</p>	<p>Lock is in “ZERO” combination.</p>	<p>Follow the procedure for Changing Combinations (Section K) except omit steps 1 and 2 (do not enter the existing combination).</p>
<p>2. The outside lever will not go completely inside the outside lock assembly.</p>	<p>Lever catch is misaligned.</p>	<p>Insert lever release tool through small hole on the outside unit assembly (under the lever). Using the tool, gently push lever catch up until it clicks. Refer to section H (Installing and Removing the Outside Lever).</p>
<p>3. Correct combination is depressed but the latch does not retract.</p>	<p>Failed to depress the “ENTER” button.</p>	<p>Always depress and release the “ENTER” button after depressing the correct combination.</p>
<p>4. Cannot remove key from outside lever — key is stuck.</p>	<p>Key was rotated 180 degrees in wrong direction.</p>	<p>Rotate key counterclockwise. Insert lever release tool through small hole on the outside unit assembly (under the lever). Using the tool gently push lever catch up until it clicks. Remove outside lever. Remove key. Then follow steps in Section H: Installing and Removing the Outside Lever.</p>