



KABA[®]

Simplex[®] 506x Mortise

Installation Instructions

TABLE OF CONTENTS

Tools Required 3

Exploded Install Parts.....4

A. Mortise Handing.....5

B. Door Preparation8

C. Installing the Strike..... 10

D. Installing Outside Unit Assembly11

E. Installing Inside Unit Assembly11

F. Installing the Inside Lever 16

G. Changing Key-In-Lever Cylinder17

H. Installing / Removing Outside Lever (Key-In-Lever) KIL..... 18

I. Installing / Removing Outside Lever (Interchangeable/ 18
removable core models)

J. Testing the Operation of the Lock21

K. Changing Combinations21

L. How To Reset Lost or Unknown Combination 23

M. Installing Rubber Bumpers 26

M. Troubleshooting..... 26

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

Warnings and Cautions

Important: Carefully inspect windows, door frame, door, lights, etc. to ensure that the recommended procedures will not cause damage. Kaba Access Control’s warranty does not cover damages caused by installation.

Caution: Wear safety glasses when preparing door.

Introduction

The purpose of this manual is to instruct the installer on the proper installation procedure for the Simplex 506x American Steel Mortise (ASM) locks. These instructions pertain to models with and without deadbolts. For models without deadbolts, please disregard any references to a thumbturn in the instructions.

OPERATIONAL NOTE:

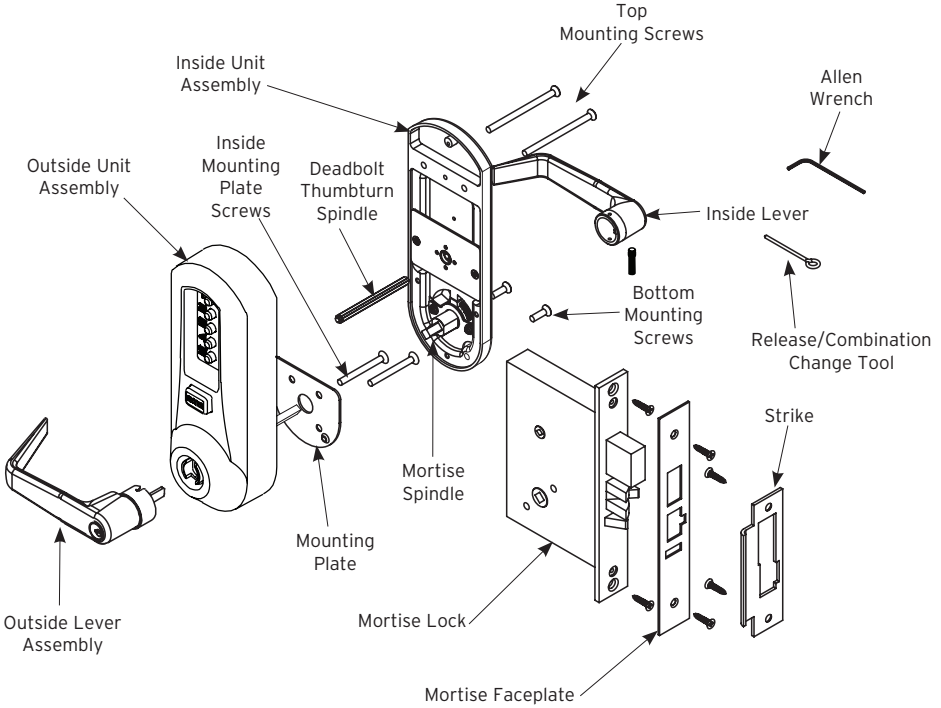
The Simplex Mortise lock is almost identical to the Simplex 5000 Cylindrical lock with the following exceptions:

- 1. Operation of the Lever** When the lock's handing is properly set, only a downward rotation of lever will actuate latch.
- 2. Key Override Use** The key override differs in that rotating the key does not actuate the latch. To use the key override the key must be inserted into the cylinder and rotated counter clockwise until it stops (approximately 90 degrees) then while holding the key in this position with one hand use the other hand to rotate the lever downward to retract the latch. Once the lever has rotated a few degrees the key may be released.

TOOLS REQUIRED

- Safety glasses
- 1/2" (13 mm) chisel
- 1/8" (3 mm) drill bit
- 1/4" (7 mm) drill bit
- 1/2" (13 mm) drill bit
- 2 1/8" (54 mm) hole saw
- Drill
- Awl or center punch
- Hammer
- Small flat screwdriver
- Phillips screwdriver (#2)
- Fine steel file
- Mortising machine
- Router
- Mortise faceplate router template
- Adjustable square
- Tape measure
- Pencil
- Tape
- Cleaning supplies (drop cloth, vacuum)

Simplex 1 1/4" Mortise Lock 506x Models



The 1 1/4" Mortise lock for the Simplex series comes preassembled from the factory for a left-hand installation. It is field reversible.

Installation Qualifications

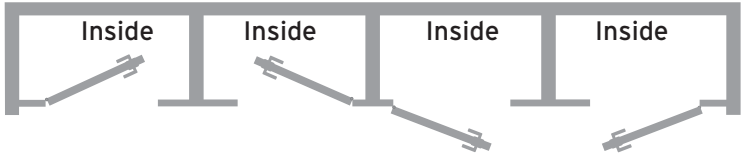
These instructions are designed for use by maintenance professionals or lock installers who are familiar with common safety practices and competent to perform the steps described. Kaba Access Control is not responsible for damage, injury or malfunction due to incorrect installation.



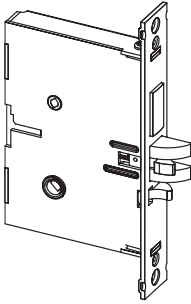
For technical assistance please call
1-800-849-TECH (8324) or 336-725-1331

DOOR HANDING

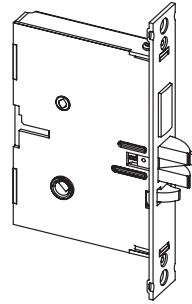
Some locks also require you to specify door handing. To determine handing, face the door from the exterior (access) side and select the corresponding diagram below.



A. MORTISE HANDING



For LH (left hand) and RHR (right hand reverse)



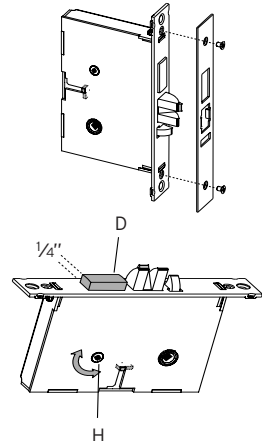
For RH (right hand) and LHR (left hand reverse)

Compare the mortise with the figure. If the mortise is the correct handing for the door, you may skip the next section on reversing the Mortise Handing.

A. 1.1 REVERSIBLE ASM

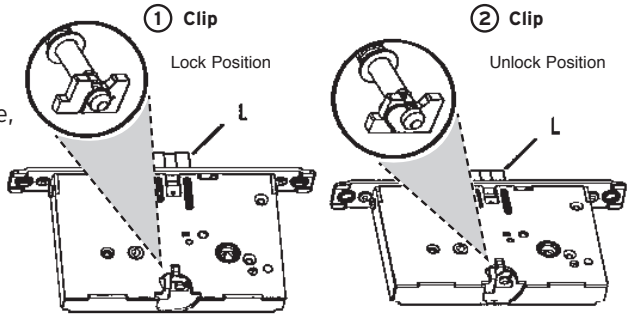
A-1.1

1. Remove the mortise faceplate.
Place the mortise on a flat surface for the following steps.
2. Partially extend the deadbolt:
For normal ASM, rotate hub (H) using a screwdriver, until the deadbolt (D) extends approximately 1/4".

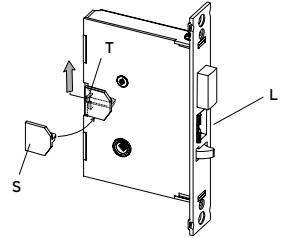


A-1.1 Continued

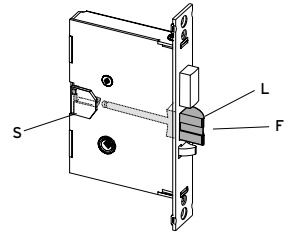
3. Push in the latch bolt (L) to the middle of its stroke, and hold it there. (Continue Step 1 and 2 to the right)



Hold the latch (L) inside the mortise, and insert the tailpiece retaining tool (S) so that the tailpiece (T) will not drop inside the mortise case. Hold the tool and the latch with one hand, and slide up the tailpiece using a small screwdriver.



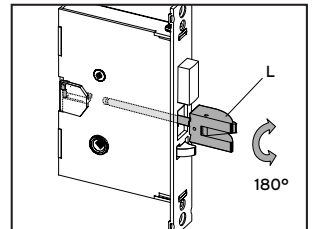
Continue to hold tool (S). Release the latch bolt (L) and keep the anti-friction latch (F) toward the flat side of the latch bolt so that the bolt extends fully.



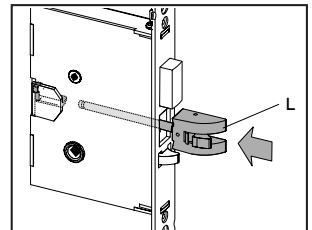
4. Pull out the latch bolt (L), until it just clears the front plate.

NOTE: If you remove the bolt completely, you must turn it 90° to re-insert it.

Rotate the latch bolt (L) 180°. Re-insert it to the end of its stroke.

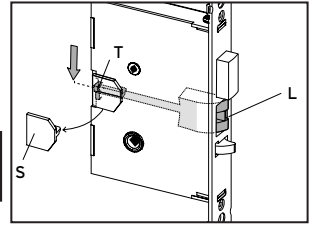


Holding tool (S) in place, re-engage tailpiece bolt (L) (slide tailpiece down). There may be some play required to align the parts. Remove the tool (S).

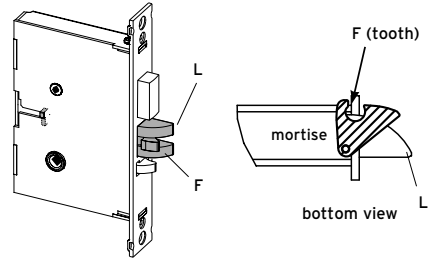


Release the latch to the middle of the stroke and hold it there. Use a small screwdriver to push the lock mechanism back on lock position (see step 1 and 2).

IMPORTANT: The lock mechanism has to be horizontal on lock position.

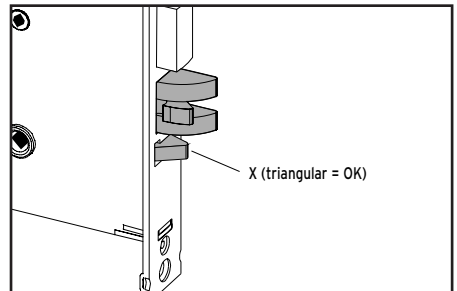


5. Release the latch bolt (L). Position the latch bolt so that the bottom tooth of the anti-friction latch (F) remains inside the mortise case as shown.

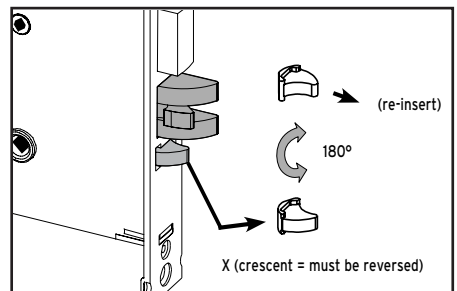


IMPORTANT: If the tooth of (F) is outside the mortise, you will not be able to re-assemble the faceplate on the mortise.

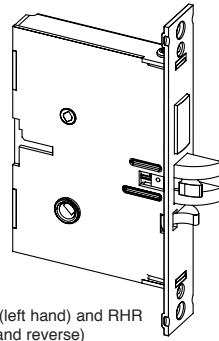
6. **If the auxiliary latch (X) is shaped like a triangle**, there is no need to change its handing.



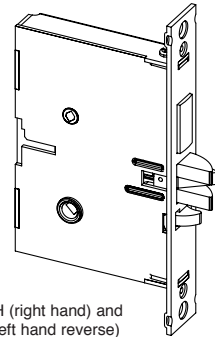
If the auxiliary latch (X) is crescent shape, remove it, turn it 180°, and replace it. The auxiliary latch slides easily in and out of the mortise.



7. The mortise should look like the diagram at the right. (Check the orientation of the latch bolt and auxiliary latch.) Check the bevel of the mortise and change it if required as described in section B-8 on page 14.



For LH (left hand) and RHR (right hand reverse)

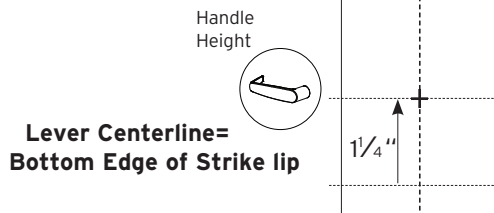


For RH (right hand) and LHR (left hand reverse)

B. DOOR PREPARATION

If using the installation jig to prepare the door, refer to the instructions provided with the jig, then proceed with step 7.

- B-1** Mark the handle height on the edge of the door, as determined directly from the strike.

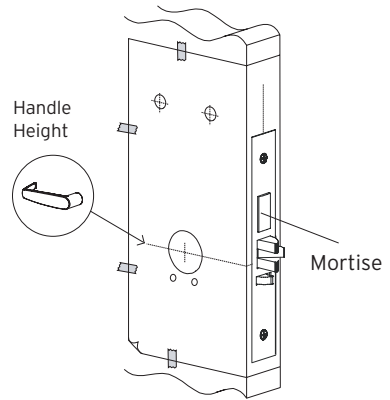


The axis of rotation of the handle is level with the bottom lip of the strike.

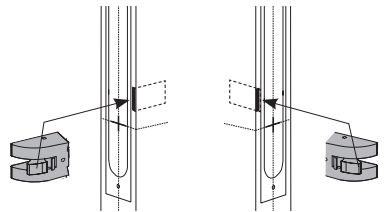
B-2 Align the template along the vertical center line of the mortise (CL) at the desired handle height, and tape it to the door.

B-3 Mark all holes and cutouts for the mortise in the edge of the door and remove the template.

B-4 Locate the two sets of vertical fold lines on the template allowing you to adjust the positioning of the template depending on the bevel of the door.



Note: Fold lines on template are for 1 $\frac{3}{4}$ " door. Some thickness and bevel conditions may make it necessary to re-position the template for marking each side of the door.

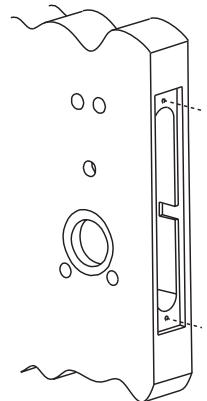


RH/LHR (ASM shown) LH/RHR

B-5 If the door has no bevel, fold the template along the solid lines. Align the fold with the edge of the door and mark the holes for the lock. Repeat on the other side of the door. If the door has a 3° bevel, fold and align the dashed line marked "H" on the template with the higher-beveled edge of the door and mark the lock holes on that side of the door. Repeat on the side with the lower-beveled edge using the dashed line marked "L."

B-6 Prepare the cutout for the mortise in the edge of the door using a mortising machine, router and chisel (for dimensions, refer to template). Ensure clearance is provided for moving latch parts as indicated on the template.

B-7 When making holes, drill from both sides of the door to prevent unsightly damage (for dimensions, refer to template). Drill the small holes before the large holes. This will keep small holes on location before the 2 $\frac{1}{8}$ " holes are made tangent with them.

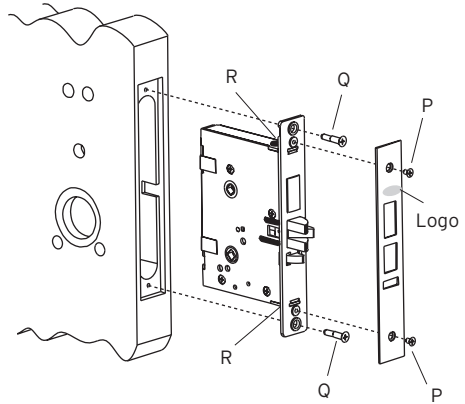


B-8 Check the bevel of the mortise faceplate. If adjustment is required, loosen the two bevel screws and adjust mortise front plate angle to match the bevel of the door (R).

B-9 Re-tighten screws.

B-10 Install the mortise with two 1" Phillips screws provided (Q).

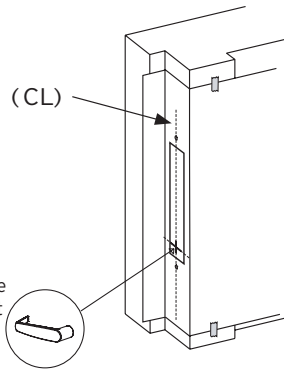
B-11 Install mortise faceplate with the two 8-32 x 1/4" screws provided (P).



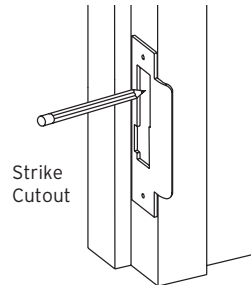
C. INSTALLING THE STRIKE

C-1 Align the paper template on the door frame to match with the desired handle height, and along the vertical center line of the mortise (CL), which is also the center line of the door, allowing for any bumpers on the door frame.

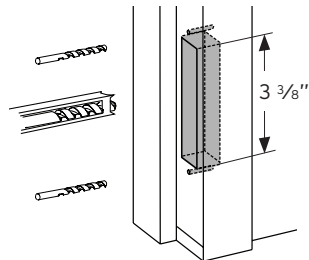
Respect applicable building codes regarding handle height.



C-2 Select the strike for the desired handing, according to the depiction on the template. Mark the location of the strike cutout and mounting screws.

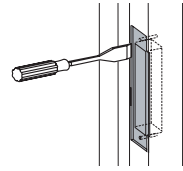


C-3 Drill pilot holes for the strike mounting screws. Mortise the door frame for the strike dimensions shown.
3 3/8" (L) X 1" (D) X 1" (W)



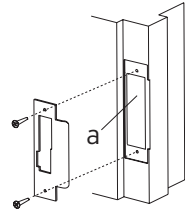
Note: Make certain not to mortise over screw holes drilled earlier.

- C-4** Position the strike against the door frame and align it with the mounting screw holes. Then mark the outline of the strike.



- C-5** Remove any material from within the strike outline (a) so that the strike will be flush with the door frame.

- C-6** Install the strike using the screws provided.

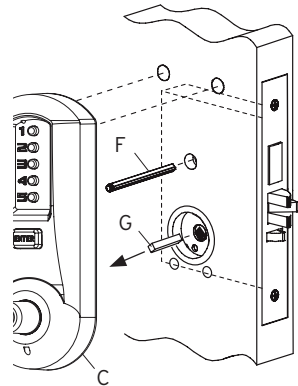


D. INSTALLING OUTSIDE UNIT ASSEMBLY

- D-1** For door thickness of $1\frac{3}{4}$ " - 2", insert the short square spindle (G) into the outside housing hub. Door thickness of $2\frac{1}{8}$ " - $2\frac{1}{4}$ ", insert the long square spindle into the outside unit hub.

- D-2** If your lock comes with a deadbolt thumbturn, insert the end of the thumbturn spindle (F) into the small spindle hole in the outside housing.

Note: Spindle will snap into place or detent into proper position.

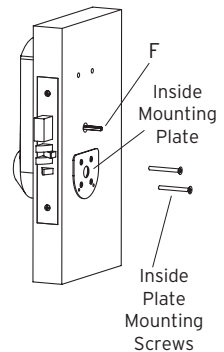


- D-3** Place the outside housing on the door so that the bottom spindle engages the hub on the mortise, and the top thumbturn spindle passes through the mortise top hub if applicable. The outside unit assembly (C) will rest flush against the door.

E. INSTALLING INSIDE UNIT ASSEMBLY

Note: Installing levers to the unit assemblies before mounting the unit assemblies (see section F) may ease initial installation.

- E-1** Place inside mounting plate flush against the door as shown. For door thicknesses $1\frac{3}{4}$ " - 2" insert diagonally (as shown) two $2\frac{1}{16}$ " Phillips flat head screws (supplied in STD door kit). For door thickness 2" - $2\frac{1}{4}$ " insert diagonally (as shown) two $2\frac{3}{8}$ " Phillips flat head screws (supplied in thick door kit).



Note: The screws must correspond to the two through holes in the mortise.

KABA SIMPLEX®/E-PLEX® 5x00 SERIES LIMITED WARRANTY

Kaba Access Control warrants this product to be free from defects in material and workmanship under normal use and service for a period of three (3) years. Kaba Access Control will repair or replace, at our discretion, 5000 Series Locks found by Kaba Access Control analysis to be defective during this period. Our only liability, whether in tort or in contract, under this warranty is to repair or replace products that are returned to Kaba Access Control within the three (3) year warranty period.

This warranty is in lieu of and not in addition to any other warranty or condition, express or implied, including without limitation merchantability, fitness for purpose or absence of latent defects.

ATTENTION: This warranty does not cover problems arising out of improper installation, neglect or misuse. All warranties implied or written will be null and void if the lock is not installed properly and /or if any supplied component part is substituted with a foreign part. If the lock is used with a wall bumper, the warranty is null and void. If a doorstop is required, we recommend the use of a floor secured stop.

The environment and conditions of use determine the life of finishes on Kaba Access Control products. Finishes on Kaba Access Control products are subject to change due to wear and environmental corrosion. Kaba Access Control cannot be held responsible for the deterioration of finishes.

Authorization to Return Goods

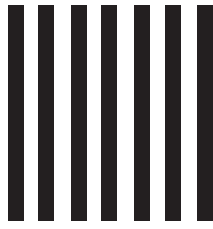
Returned merchandise will not be accepted without prior approval. Approvals and Returned Goods Authorization Numbers (RGA Numbers) for the 5000 Series are available through our Customer Service department in Winston-Salem, NC (800) 849-8324. **The serial number of a lock is required to obtain this RGA Number.** The issuance of an RGA does not imply that a credit or replacement will be issued.

The RGA number must be included on the address label when material is returned to the factory. All component parts including latches and strikes (even if not inoperative) must be included in the package with return. All merchandise must be returned prepaid and properly packaged to the address indicated.

* Simplex 5000 locks are warranted three (3) years from date of purchase.
E-Plex 5x00 locks are warranted three (3) years from date of activation.



NO POSTAGE
NECESSARY
IF MAILED
IN THE
UNITED STATES



BUSINESS REPLY MAIL

FIRST-CLASS MAIL PERMIT NO. 1563 WINSTON-SALEM, NC

POSTAGE WILL BE PAID BY ADDRESSEE

KABA ACCESS CONTROL
2941 INDIANA AVENUE
WINSTON-SALEM, NC 27199-3770



REGISTRATION CARD

Thank you for purchasing our product. In order to protect your investment and to enable us to better serve you in the future, please fill out this registration card and return it to Kaba Access Control, or register online at www.kabaaccess.com.

Name _____

Position _____

Company _____

Address _____

City _____

State _____ ZIP (Postal Code) _____ Country _____

Phone _____

Email _____

Name of Dealer Purchased From _____

Date of Purchase _____

Lock Model Number _____

This lock will be used in what type of facility?

- Commercial Building Industrial / Manufacturing Airport
 College / University Government / Military School / Educational
 Hospital / Healthcare Other (please specify) _____

What area is being secured with this lock? (e.g. Front Door, Common Door, Exercise Room)

This lock is:

- New Installation
 Replacing a conventional keyed lock
 Replacing a Kaba Mechanical Pushbutton Lock
 Replacing a Kaba Electronic Access Control
 Replacing a Keyless Lock other than Kaba

How did you learn about Kaba Access Control Pushbutton Locks?

- Advertisement Previous Use Internet / Web Another Use
 Locksmith Maintenance Training Class Other (please specify)

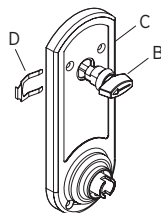
What was your reason for buying this lock? _____

Who installed your lock?

- Locksmith Maintenance Other _____

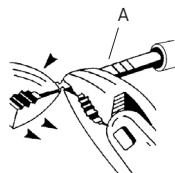
Check here if you would like more information on Kaba Access Control locks.

- E-2** If the lock comes with a thumbturn for passage (B), insert the thumbturn through the inside housing (C) and secure using the spring clip (D).

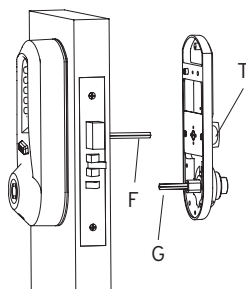


Note: The tailpiece of the passage actuator (A) is scored on several places to allow you to easily break off the section that extends beyond the required length to engage the passage set cam.

- E-3** Hold the tailpiece (A) firmly with a pair of pliers, adjacent to the desired break line. With a second pair of pliers, grip the tailpiece on the other side of the scored line and bend up and down until it breaks.



- E-4** For door thickness of $1\frac{3}{4}$ " - 2", insert the short square spindle (G) into the inside housing hub. Door thickness of $2\frac{1}{8}$ " - $2\frac{1}{4}$ ", insert the long square spindle into the inside unit hub.

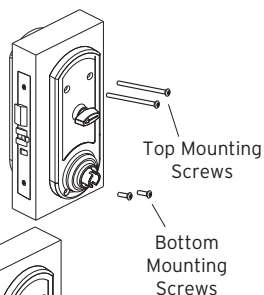


- E-5** Put the deadbolt thumbturn (T), if applicable in a vertical position and place the inside trim assembly on the door so that the upper spindle (F) engages the thumbturn and mortise hubs, respectively. Carefully push the inside housing flush against the door.

Door Thickness	Inside Mounting Plate Screws	Top Mounting Screw	Bottom Mounting Screws
$1\frac{3}{4}$ " to 2" (44 mm to 51 mm)	$1\frac{7}{8}$ " (48 mm)	$2\frac{7}{8}$ " (73 mm)	$\frac{5}{8}$ " (16 mm)
$2\frac{1}{8}$ " to $2\frac{1}{4}$ " (54 mm to 57 mm)	$2\frac{3}{8}$ " (59 mm)	$3\frac{1}{4}$ " (83 mm)	$\frac{5}{8}$ " (16 mm)

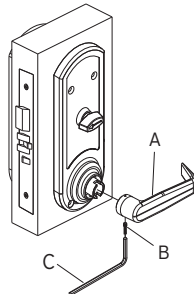
- E-6** Insert and tighten the top and bottom mounting screws. (Refer to the chart above for correct screw lengths.)

Warning: If using a power drill, please be careful not to over-tighten as this could cause damage to the mounting screws and threads.



F. INSTALLING THE INSIDE LEVER

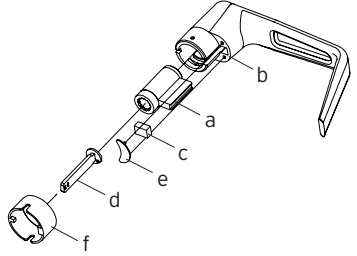
Insert the inside lever (A) onto the inside unit assembly. Secure the inside lever with the hex screw (B) (supplied) using the allen wrench (C) (supplied).



G. CHANGING KEY-IN-LEVER (KIL) CYLINDER

The Simplex 5000 outside lever comes preassembled with Kaba's key-in-lever cylinder (Kaba 1599). To use a different key-in-lever cylinder follow remaining steps in this section.




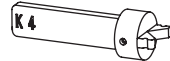

G-1 Remove KIL cylinder (a) from the outside lever (b) by removing the lever insert (e) and the cylinder retainer (c) using a small flat blade screw driver or small needle nose pliers. Remove the cylinder, then the tailpiece.



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

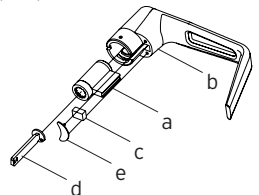
You must use a Kaba tailpiece.

The K 2 tailpiece is preassembled with the Kaba 1599.

TAILPIECE	KIL CYLINDER
<p>K1</p> 	<p>Abloy 5277, Abloy 5477, Assa 65691, Kaba 1539, Kaba Gemini 4730</p>
<p>K2</p> 	<p>Assa 65611, Australian: Kaba experT 107K5 & Boyd KC286, Corbin Russwin 2000-03, Kaba 1599, Schlage 23-001, Schlage Primu 20-760, Kaba Peaks 1099</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-3 Assemble the required tailpiece (d) (supplied with your KIL cylinder). **All tailpieces must be installed vertically for proper installation, as shown.**

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

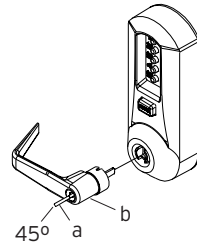
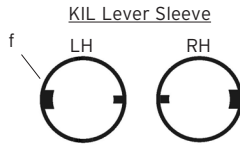
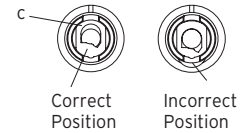


H. INSTALLING / REMOVING OUTSIDE LEVER

(Key-In-Lever models only)(For interchangeable and removable cores proceed to section I)

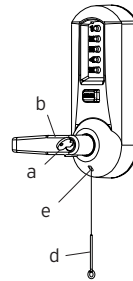
Note: Installing levers to the unit assemblies before mounting the unit assemblies may ease initial installation.

- H-1** Make certain the lever catch is up as shown (c). Position the lever sleeve (f) tab correctly with the respective notch on the lever. The lock comes shipped with the lever sleeve already installed in the lock housing. When installing lever, ensure it is oriented to engage the lever sleeve to accommodate desired lock handing as shown.
- H-2** Insert one of the (supplied) keys (a) into the outside lever (b) and rotate key counterclockwise 45 degrees. If needed, wiggle the lever up and down while turning the key to lock onto the lever.
- H-3** Insert the outside lever (b) 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 the steps below.

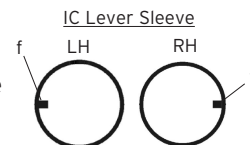
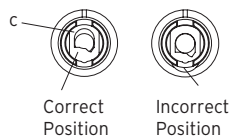
- H-4** Insert one of the (supplied) keys (a) into the outside lever (b) and rotate it counterclockwise 45 degrees. Insert release tool (d) into the small hole (e) under lever as shown. Gently push lever catch up until it clicks. Remove tool, then remove outside lever (b).



I. INSTALLING / REMOVING OUTSIDE LEVER (Interchangeable / Removable Core Models)

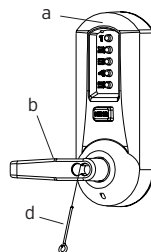
Note: Installing lever to the unit assemblies before mounting the unit assemblies may ease initial installation.

- I-1** Make certain the lever catch is up as shown (c). Position the lever sleeve (f) tab correctly with the respective notch on the lever. The lock comes



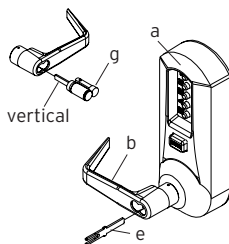
shipped with the lever sleeve already installed in the lock housing. When installing the lever, ensure it is oriented to engage the lever sleeve to accommodate desired lock handing as shown.

- I-2** Insert the outside lever (b) until it is flush to the outside unit assembly (a). To secure the outside lever, insert the release tool (d) (or screw driver) into the outside lever as shown, and slide the lever catch down until it clicks. Make certain lever is attached before installing the core.



Note: For all interchangeable/removable cores except ASSA/Medeco/Yale, proceed to section I-3. For ASSA/Medeco/Yale cores, skip to section I-5.

- I-3** Insert the supplied tailpiece (e) vertically into the outside lever (b) as shown. Make certain that you rotate the tailpiece so that it will align with the interchangeable core. For screw cap type cores (Schlage) (g), the tailpiece must be assembled to the core first (vertical position). Insert the interchangeable core into the outside lever.

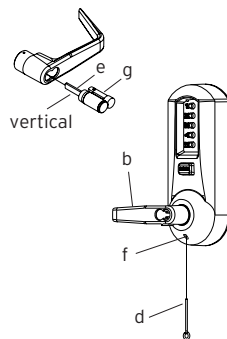


Note: To remove the outside lever from the outside unit assembly, follow the steps below.

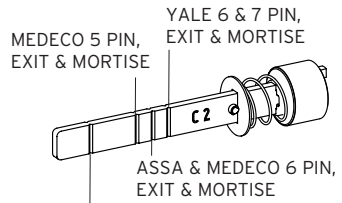
- I-4** Remove the interchangeable core (g). Then remove the tailpiece (e).

Note: You may want to use needle nose pliers for some tailpieces.

Insert the release tool (d) into the small hole (f) under lever as shown. Gently push lever catch up until it clicks. Remove tool, then remove outside lever (b).



- I-5** For ASSA/Medeco/Yale interchangeable/removable cores, the tailpiece must be prepped for the desired length before installation.
- I-6** Notice the score marks on the flat portion of the ASSA/Medeco/Yale tailpiece. Using the diagram to the right, locate the score mark on your tailpiece that matches your core prep for the intended application, and break the tailpiece off accordingly.

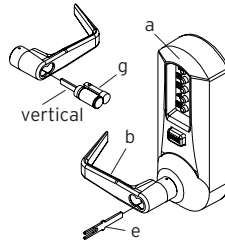


YALE 6 & 7 PIN,
CYLINDRICAL - THIN DOOR
(1 3/8" (35 mm) to 1 1/2" (38 mm))
(DO NOT SHORTEN TAILPIECE -
For 1 5/8" (41 mm) to 2 1/4" (57 mm))

ASSA/MEDECO 5, 6 & 7 PIN,
CYLINDRICAL - DO NOT
SHORTEN TAILPIECE

Note: Using two pairs of pliers, break the tailpiece to the desired length of the intended application by holding one pair of pliers on the good side of the score mark and a second pair on the other side of the score mark. Slowly move the 2nd pair of pliers up and down until the unneeded portion of the tailpiece breaks free.

- I-7** Insert the ASSA/Medeco/Yale tailpiece (e) vertically into the outside lever as shown. Make certain that you rotate the tailpiece slightly so that it will align with the interchangeable/removable core. Insert the interchangeable/removable core into the outside lever.

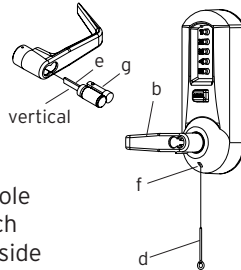


Note: To remove the outside lever from the outside unit assembly, follow steps below.

- I-8** Remove the interchangeable/removable core. Then remove the tailpiece (e).

Note: You may want to use needle nose pliers for some tailpieces.

- I-9** Insert the lever release tool (d) into the small hole (f) under lever as shown. Gently push lever catch up until it clicks. Remove tool, then remove outside lever (b).



J. TESTING THE OPERATION OF THE LOCK

- J-1** Rotate in the inside lever downward and hold. Ensure that the latch is fully retracted. Release the lever and the latch should return to the fully extended position. With code entered, the lever only rotates downward.
- J-2** Enter the factory set combination: Depress buttons 2 and 4 at the same time (& release), then press button 3 (& release), then depress the "ENTER" button **and release**. You should feel a slight click as each button is depressed.
- J-3** Rotate the outside lever downward and hold. Ensure that the latch is retracted sufficiently to clear the strike. Release the outside lever; the latch should be fully extended.
- J-4** Press the "ENTER" button only, and release, then rotate the outside lever. The latch should not retract.
- J-5** Insert one of the supplied keys into the outside lever. Rotate key counter clockwise until it stops (approximately 90 degrees), while holding the key in this position with one hand, use the other hand to rotate the lever downwards till it stops and hold (once the lever has rotated a few degrees the key may be released). Ensure that the latch has retracted sufficiently to clear the strike. Release the lever and ensure that the latch is fully extended.

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.

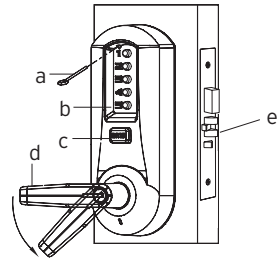
The combination can be easily changed using one to five of the lock's buttons in any order in the combination. Each button can only be used once. **Note: Three or more non-sequential button combinations are recommended for higher security.** Also, two or more buttons may be pushed together (at the same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

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

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.

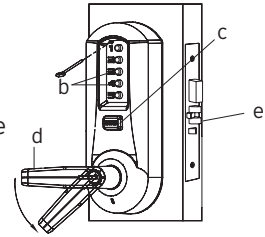
- K-1** Press the **existing combination** (b) followed by the **ENTER** button (c) and release; do **not** turn the lever.

K-2 Insert the release tool (a) through hole in number pad and gently **lift up loop end of the tool to depress the code change button** until you hear a **click**; remove tool and **do not press any buttons** (proceed to K-3).



K-3 ****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-4 Press in your **new combination (b)** followed by the **ENTER button (c)** and release.



K-5 Rotate the lever (d) to verify that the mortise latch (e) **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	Date
& ENTER	
& ENTER	
& ENTER	
& ENTER	
& ENTER	
& ENTER	
& ENTER	
& ENTER	

Caution: Check the operation of the latch by making sure that the deadlatch stops against the strike 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 void our warranty of the complete lock mechanism. If necessary, correct the door over-travel by using the rubber bumpers as described in Section M (Installing Rubber Bumpers).

L. HOW TO RESET A LOST OR UNKNOWN COMBINATION

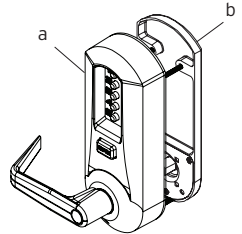
There is no way to determine a forgotten, unknown or lost combination from the front or outside of the lock. However, it can be reset and recovered or reset and changed to a new combination by following the steps in this section.

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 Access Control technical support line at

800-849-TECH (8324) or 336-725-1331 between 8AM and 5PM Eastern Standard Time, Monday through Friday (except holidays).

L-1 Removing Lock From Door

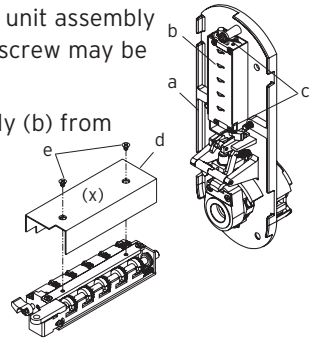
Remove both the outside unit assembly (a) and the inside unit assembly (b). (Reverse procedures from sections D and E of this manual.)



L-2 Removing Combination Chamber Assembly

Carefully remove the base plate of outside unit assembly (a) by removing the 2 Phillips screws (one screw may be found under an inspection sticker).

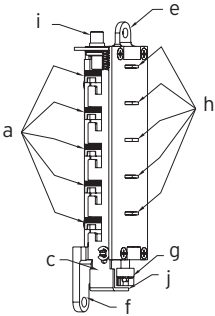
Remove the combination chamber assembly (b) from the base plate by removing the 2 Phillips screws (c).



Remove the 3-sided dust cover (d) to fully expose the chamber by removing 2 small Phillips screws (e). (May be 1 screw (x) in newer models)

L-3 Resetting and Recovery of Current Combination

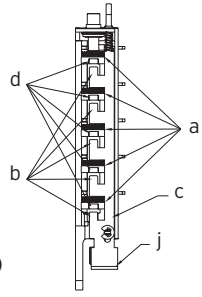
To reset the code gears (a), each one of the 5 "L" shaped legs (b) of the unlocking slide (c) must engage snugly with the corresponding code gear pocket (d) next to it.



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 combination uses two different number buttons (example, 2 and 4) depressed at the same time as part of the 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.

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, L-3.

L-4 Clearing the Current Combination and Setting a New Combination

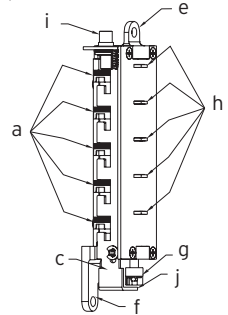
Note: Align the code gear pockets with the "L" shaped legs.

Depress the combination change button (i) located on top of the combination chamber 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 by depressing the key stem corresponding to the first number (1 through 5) of your combination. For example, if the new combination is 3-2-5, then you would depress 3 first, then 2 and finally 5. Record this new combination for future reference.

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



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

L-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. (May be 1 screw in newer models)

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. Make sure all parts have been reinstalled correctly.

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

L-7 Retest new combination with lock on the open door by entering the new numbers followed by the "ENTER" button and rotating the outside lever/knob. The lock should open and the latch should retract.

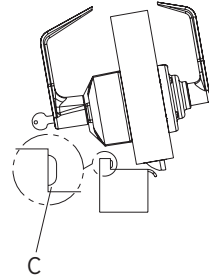
KABA®

For technical assistance please call
1.800.849.TECH (8324) or 336.725.1331

M. INSTALLING RUBBER BUMPERS

M-1 Close the door and apply pressure making sure the deadlatch rests on the strike plate. 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).

M-2 Mark locations where the gaps are approximately $\frac{3}{16}$ " (5 mm). 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.

N. TROUBLE SHOOTING

SYMPTOM	POSSIBLE CAUSE	REMEDY
1. The outside lever always retracts the latch after depressing and releasing the "ENTER" button only (without combination).	Lock is in "ZERO" combination.	Follow the procedure for Changing Combinations (Section K) except omit steps 1 and 2 (do not enter the existing combination).
2. The outside lever always retracts the latch after depressing and releasing the "ENTER" button only (without combination).	Activation cam has flipped over during lost combination procedure.	Remove outside housing from base, remove chamber and flip activation cam back to correct position. Cams should face opposite direction from one another.
3. The outside lever will not go completely inside the outside lock assembly.	Lever catch is misaligned.	Insert 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 or I (Installing and Removing the Outside Lever).

SYMPTOM	POSSIBLE CAUSE	REMEDY
4. Correct combination is depressed, but the latch does not retract.	Failed to depress the "ENTER" button.	Always depress and release the "ENTER" button after depressing the correct combination.
5. Cannot remove key from outside lever – key is stuck.	Key was rotated 180 degrees in wrong direction during initial install of outside lever.	Rotate key counterclockwise. Insert 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 or I: Installing and Removing the Outside Lever.
6. Mortise is hard to retract when correct combination and "Enter" are entered.	Possible misalignment between the strike and deadbolt/latch—could be causing excessive load pressure on latch and door.	See Sections B and C for mortise and strike installation and section M for installation of Rubber bumpers. (DO NOT MODIFY STRIKE OR LATCH.)
7. Correct combination is depressed, but the latch does not retract.	Spindle not assembled.	Remove and install spindle.
8. Passage feature will not operate when key or thumbturn is turned.	May not have proper engagement between the tailpiece and passage actuator.	Check tailpiece length—adjust or replace as needed. Assure engagement between tailpiece and actuator is correct—See Section D and E.
9. Passage feature will not operate when key or thumbturn is turned.	Incorrect spindle length or undue pressure on the spindle causing a bind (not straight).	See sections D and E.



Kaba Access Control
2941 Indiana Avenue
Winston-Salem, NC 27105 USA
Tel: (800) 849-8324 (336) 725-1331
Fax: (800) 346-9640 (336) 725-3269

www.kabaaccess.com

LIT1051 1012