



SIMPLEX® LD450

Pushbutton Lock Installation Instructions

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Warnings and Cautions

Important: Carefully inspect windows, doorframe, 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.

Tools Required

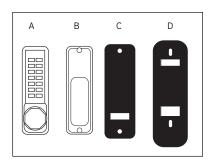
- electric drill (variable speed recommended)
- #2 Phillips screwdriver
- (¾") drill bit
- wood chisel
- hammer
- pliers
- · safety googles
- tape
- pencil

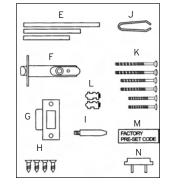
CHECKLIST

Use this checklist to make sure that everything has been included.

✓

- □ A Outside unit
- □ **B** Inside unit
- □ **C** Gaskets (2)
- □ **D** Universal trim plate (2)
- E Tailpieces / spindles (3 lengths)
- □ **F** Latch
- ☐ G Strike plate
- ☐ **H** Latch and strike screws (4)
- ☐ I Latch support post
- ☐ J Tweezers
- □ **K** Mounting screws (6) (3 lengths)
- □ L Spare tumblers coded (2), uncoded (2)
- M Code card
- N Plastic clip





OPERATIONAL NOTE:

Prior to beginning installation, please check that all parts are working correctly. Press the "C" button 3-5 times. Enter the code from the factory supplied code card. Turn the outside knob clockwise and release. The knob should return easily under spring pressure. If you intend to change the code, you should do it before installing the lock (See Code Change Instructions).

Make sure that the inside handle moves freely. Make sure the latch holdback button will engage and hold the handle in the "latch-open" position, if it is a model with latch holdback. If you intend to remove the latch holdback feature, you should do it before installing the lock (See Removing the Latch Holdback).

Check that the latch bolt moves freely by pressing the bolthead at the end, and also by turning the flat spindle in the latch cam.



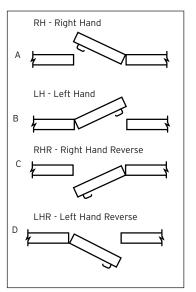
For technical assistance please call 1-800-849-TECH (8324) or 336-725-1331

A. DETERMINING THE HAND OF YOUR DOOR

Many of the installation instructions refer to the handing of your door. The hand of the door is determined with the door in the closed position, from the exterior or pushbutton side of the door.

- A) Right Hand Door. Door opens inward (push). Hinged on the right side.
- B) Left Hand Door. Door opens inward (push). Hinged on the left side.
- C) Right Hand Reverse Door. Door opens outward (pull). Hinged on the right side.
- D) Left Hand Reverse Door. Door opens outward (pull). Hinged on the left side.

Note: When fitting an inside handle to a left-hand door, the BLUE screw must go in the right-hand hole, and vice versa.



B. MARKING THE TEMPLATE AND DRILLING THE DOOR

- **B-1** Find and remove the template from the installation manual. Carefully fold along the dotted line that matches the backset the application requires.
- **B-2** From the exterior (or push button side) of the door, place the dotted line of the template along the edge of the door.
- **B-3** Carefully mark the 4 holes on the template (2 mounting holes, 1 tailpiece/spindle hole, 1 latch support post hole).



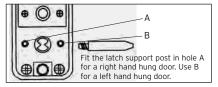
B-4 Drill the 4 holes, making sure to drill them straight. The latch support post hole will only be drilled on the side matching lock/latch installation.

C. INSTALLING THE LATCH

- **C-1** Using the center line of the latch (marked on template), mark the point where the cross bore for the latch should be drilled.
- **C-2** Drill a 1" (25 mm) diameter hole, 3 3/4" (96mm) deep, on that center point of the edge of the door.
- **C-3** Insert the latch into the hole and outline the face of the latch (already prepped on most metal doors). Remove the latch.
- C-4 Using a chisel, remove the material 1/8" (3 mm) deep from the door for the faceplate of the latch (already prepped on most metal doors).
- **C-5** Reinsert the latch and install the latch using the mounting screws provided.

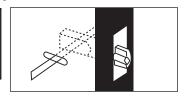
D. INSTALLING THE LATCH SUPPORT POST

Install the latch support post into the back of the lock as shown. For right-hand doors, use hole A. For left-hand doors, use hole B.



E. INSTALLING THE TAILPIECE / SPINDLE

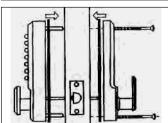
Note: Assurance that the proper tailpiece/spindle is used is extremely critical. If the wrong spindle is used, binding or a lockout can occur.



- E-1 For doors ranging in thickness from 1 3/8" (35 mm) to 1 3/4" (44 mm) use the shorter tailpiece (supplied) and align as shown.
- **E-2** For doors ranging in thickness from 1 7/8" (48 mm) to 2 1/2" (64 mm) use the longest tailpiece (supplied) and align as shown.
- **E-3** Make sure the tailpiece/spindle matches the picture shown depending on the hand of the lock.

Note: If cover plates are used, it may be necessary to use the next size screw to mount the lock.





F. INSTALLING THE LOCK

- F-1 Place the rubber gaskets around the lock body with the lock body sitting into the recessed portion of the gasket. Assure the holes in the back of the lock and the gasket match.
- F-2 If using the cover plate (supplied), place it on the back of the lock between the gasket and the door (extra length of the cover plate should be placed so that it is below the unit)

Note: If cover plates are used, it may be necessary to use the next size screw to mount the lock.

- F-3 For doors ranging in thickness from 1 3/8" (35 mm) to 1 3/4" (44 mm), use the shorter mounting screws (supplied) and align as shown
- **F-4** For doors ranging in thickness from 1 $\frac{3}{4}$ " (44 mm) to 2 $\frac{1}{4}$ " (57 mm), use the medium mounting screws (supplied) and align as shown.
- F-5 For doors ranging in thickness from 2 1/4" (57 mm) to 2 1/2" (64 mm), use the longest mounting screws (supplied) and align as shown.
- **F-6** Hold the outside and inside units on the door with the tailpiece in the proper position.

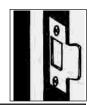
- **F-7** Finger-tighten the (2) mounting screws, assuring the lock is vertical and sitting flush against the door.
- **F-8** Before final tightening, make sure the code works and all features on the unit work as intended.

Note: Do not close the door until the lock has been tested and you are confident it works properly.

F-9 Tighten the mounting screws firmly, being careful not to over tighten the screws, as this may cause the lock to function poorly or not at all.

G. INSTALLING THE STRIKE PLATE

- **G-1** Push the door nearly shut to locate the center line of the latch bolt. Mark the center line on the door frame.
- **G-2** Using the strike, align the center of the strike opening with the center just marked.



Make sure to account for any weather stripping or door stop if necessary.

- **G-3** Carefully trace the outside profile of the strike. Also trace the latch hole in the strike.
- **G-4** Using a chisel, carefully remove approximately 1/16" (1 mm) deep worth of material from the traced area (already prepped on most metal doors). The latch face plate should sit flush with the edge of the door.
- **G-5** Drill or cut a recess in the door frame for the latch bolt in the center of the strike latch hole, traced earlier.
- **G-6** Place the strike into the newly chiseled area, making sure it sits flush and there are no obstructions in the latch hole of the strike (remove any obstructions or debris).



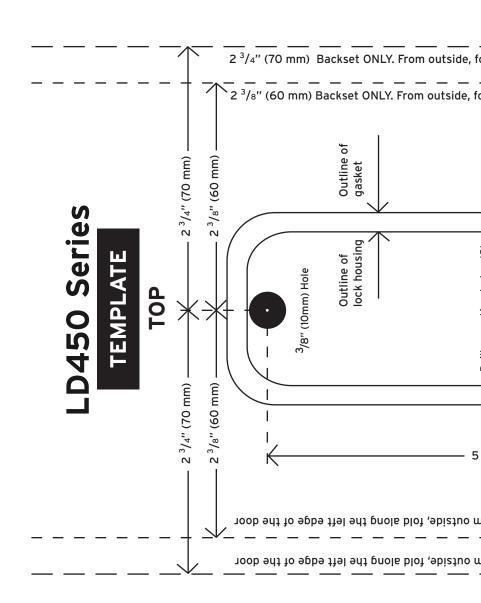
NOTE: The dead-latch must not fall into the latch hole. The dead-latch protects against manipulation of the latch bolt. If the dead-latch is able to fall into the latch hole, remove the strike and reposition it so this condition does not happen.

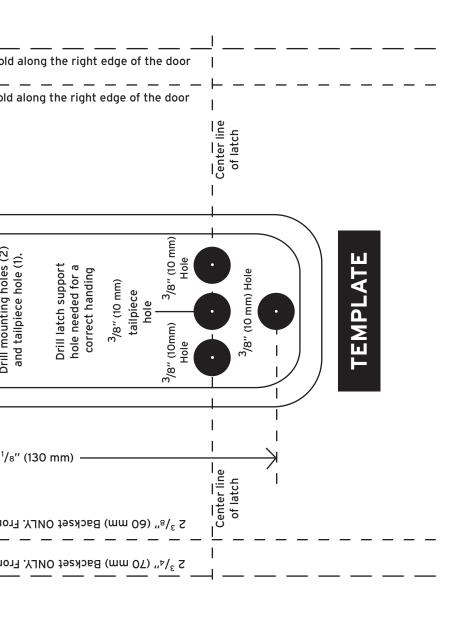
G-7 Install the strike plate with 2 screws provided.

H. REMOVING THE LATCH HOLDBACK

- H-1 If this feature is not needed, it can be removed by unscrewing the 4 corner screws from the inside unit assembly and removing the metal plate. The latch holdback button, a small spring and ball bearing, should be removed and discarded.
- **H-2** Install the plastic clip enclosed to cover the latch holdback button hole. Reinstall the metal cover plate and resecure with the 4 screws removed earlier.

FOR POSITION





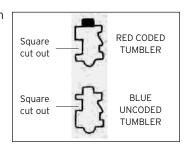
I. CHANGING THE CODE

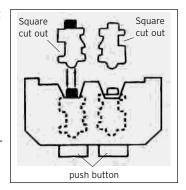
- **I-1** Remove the lock from the door.
- I-2 Remove the 4 retaining (red) screws from the back of the outside unit assembly. Take extra care to keep the outside unit assembly on a flat surface when you are removing the cover plate because there are many small components inside.
- I-3 You will now see that there are 5 red color coded tumblers and 8 blue colored un-coded tumblers, plus 1 clear tumbler ('C' button).
- I-4 To change your code, hold the outside unit assembly with the push-buttons facing down. Press the "C" button and hold it.

If the "C" is not held in while changing the code, the lock can be damaged.

1-5 Using the tweezers supplied (or small needle nose pliers), you can easily remove one or more of the coded and uncoded tumblers.

Note: The red tumblers represent coded digits and the blue tumblers represent non-coded digits.





Note: NEVER remove the 'C' tumbler.

I-6 Please note the different shapes of the tumblers before reinserting them into the lock body. There is a difference in shape between the coded and un-coded tumblers as illustrated. When refitting the tumblers into the lock body, they must be fitted facing the correct way as show in the illustration.

Note: All square cutouts must face outwards. The bump on the tumbler (either color) must fall into the machined slot.

I-7 After you have refitted the tumblers and made a note of the new code, replace the metal cover plate with the 4 screws.

Note: With the spare tumblers provided, you can either increase the number of digits in your code to 6-7, or reduce to 3-4.

J. Trouble Shooting

Installation Issues:

- ? The latch cannot be withdrawn when entering the code
- → The lock has been fitted to the wrong hand hung door
- All locks were set to fit right-hand hung doors. The lock needs to be removed from the door and reversed. Refer to instructions.
- ? Both the inside and outside knobs retract when turned towards the door frame.
- → The spindle is in position at the wrong angle.
- Remove the lock from the door, and reposition the spindles as shown in the instructions.
- ? The knob will not turn after entering a new code.
- → One or more of the code tumblers are turned the wrong way
- Re-read the code change instructions and check that the red tumblers are all facing with the square notches facing outward.
- ? The latch bolt does not move smoothly in or out.
- → The lock is not installed correctly.
- Check that the lock is square on the door and positioned accurately over the latch. Check that the latch is positioned horizontally and parallel to the door surface. Check the spindle length. It may be trapped between the front and back plate if the spindle is too long.
- **?** The outside knob turns after entering a correct code, but does not retract the latch.
- → The spindle is too short for the door thickness.
- If the spindle is too short, then it will not engage with both the outside knob and the inside handle at the same time. It may also slip out of one side after same use. Replace the spindle.

Post-Installation Issues:

- ? The outside knob turns freely without retracting the bolt.
- → The knob has been forcibly turned.
- Return the lock. Someone may have tried to force the knob to gain entry.
- ? The inside lever handle does not return to the upright position after operating.
- → The lever return spring is broken.
- Replace the return spring.
- ? The latch does not engage. The door remains unlocked after use.
- → The latch is not entering the strike.
- Your door or frame may have warped since the lock was installed. Check that the latch bolt is lined up with the strike hole. Realign the position of the strike as necessary. Make sure the deadlatch does not fall into the strike hole.



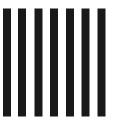
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UNITED STATES

NO POSTAGE NECESSARY IF MAILED IN THE

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POSTAGE WILL BE PAID BY ADDRESSEE

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REGISTRATION CARD

This lock will be used in what type of facility?

Access Control locks.	\square Check here if vou would like more information on Kaba Access Control locks	Check here if you would li		
Other	☐ Maintenance	Locksmith	nber	Lock Model Number
)]	Who installed your lock?	se	Date of Purchase
			Name of Dealer Purchased From	Name of Deale
	uying this lock?	What was your reason for buying this lock?		Email
Other (please specify)				Phone
Locks?	How did you learn about Kaba Access Control Pushbutton Locks?	How did you learn about Kaba Acce	ZIP (Postal Code) Country	State
	other than Kaba	Replacing a Keyless Lock other than Kaba		City
	nic Access Control	Replacing a Kaba Electronic Access Control		Address
	ical Pushbutton Lock	🗖 Replacing a Kaba Mechanical Pushbutton Lock		Company
	keyed lock	Replacing a conventional keyed lock		Position
		This lock is:		Name
Common Door, Exercise Room)	What area is being secured with this lock? (e.g. Front Door, Common Door, Exercise Room)	What area is being secured v	register online at www.kabaaccess.com.	register onlir
	Other (please specify)	☐ Hospital/Healthcare	card and return it to Kaba Access Control, or	card and retu
■ School/Educational	☐ Government/Military ☐	College/University	protect your investment and to enable us to better	protect your
⊿ Airport	☐ Industrial / Manufacturing ☐	Commercial Building	Thank you for purchasing our product. In order to	Thank you fc

KABA SIMPLEX® 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 one (1) year. Kaba Access Control will repair or replace, at our discretion, 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 one (1) 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) 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.



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