

## Various Door Styles Overview

Bullet Resistant doors are an important component in many systems, both from a functional and aesthetic stand point.

Armoured Resistance Mechanisms can design, fabricate, and install doors in a wide variety of styles, sizes, and bullet resistant levels to meet your individual needs.

Several types of doors and frames are available, and a description of each is found on the following pages.

# Bullet Resistant Door Styles

Level 1, 2, & 3 Available

Bullet Resistant Doors are for interior or exterior use and are manufactured to meet UL 752 Level 1, 2, or 3 protections. Each unit is customized and fabricated to meet your specific requirements. Available without glazing or with your choice of bullet resistant glazing.

Doors are manufactured from:

- a. Acrylic
- b. Aluminum
- c. Steel
- d. Wood

Vision window frames are fabricated in sizes to fit your specified opening.

Note: Doors must be specified with Left or Right hand hinge, determined from the key side.



Solid Door



Half Vision Aluminum Door



12" x 18" View Window



Baffle Handicapped Transaction Window



Full Vision Aluminum Door



Full Vision Acrylic Door



Peep Hole Door



Glass Handicapped Transaction Window



Arched Handicapped Transaction Window

## Door Selector Page - Acrylic

Bullet resistant all-acrylic doors are manufactured acrylic sheets, with or without an abrasion resistant coating. Half vision doors are made by adhering oversized kick plates in plastic laminate or stainless steel to the lower half of the door. Existing frames can be used, or a selection of ballistic anodized aluminum, steel (welded), or steel (knock-down) are available.



Half Vision (HV)  
Laminate and Acrylic

Full Vision (FV)  
Door with Frame and  
Kick Plate

### Specification:

**Material:** Full acrylic, with or without an abrasion resistant coating.

**Glazing:** UL1, or UL2 acrylics, with or without an abrasion resistant coating (all styles)

**Finish:** All acrylic doors can have kick plates, push and pull plates, and door closer dress plates in either stainless steel or plastic laminate in a variety of colors.

## Door Selector Page – Aluminum

Bullet resistant aluminum doors are manufactured from medium stile anodized aluminum frames lined with bullet resistant fiberglass and reinforced to resist racking. Each door is customized to meet your specific requirements, with a variety of glazing arrangements available. Existing frames can be used, or a selection of ballistic anodized aluminum, steel (welded), or steel (knock-down) are available.



Solid (SD)



Peep Hole (PH)



Half Vision (HV)

Transaction Station  
Glass (TS-G)

Full Vision (FV)

### Specification:

**Material:** Anodized aluminum, medium stile, lined with bullet resistant fiberglass.

**Glazing:** UL1 Acrylic, with an abrasion resistant coating or UL3 Polycarbonate clad acrylic (in tested framing only).

UL1, 2 (HP B equivalent) or 3 glass clad polycarbonate (UL3 in tested framing only)

**Finish:** All aluminum doors can be clear or dark bronze anodized (standard).

Powder coated or Kynar painted finishes are available with lengthy lead times and upcharges.

## Door Selector Page – Steel

Bullet resistant steel doors are manufactured from 16 gauge steel, lined with an additional bullet resistant exterior strike plate. Doors are available with a variety of glazing arrangements, and each door is customized to meet your specific requirements. Existing frames can be used, or a selection of ballistic anodized aluminum, steel (welded), or steel (knock-down) are available. TS-G style doors have a rear retaining flange, available in painted steel or stainless steel. View Windows have clamp-on style retaining flanges, available in painted steel or stainless steel.

Transaction Station  
Glass (TS-G)  
Standard Size 14 x 28

View Window (VW)  
Standard Sizes  
10x10, 12x18, 20x30

### Specification:

**Material:** 16 gauge steel with foam core and steel ballistic plate.

**Glazing:** UL1, 2, or 3 acrylics with or without an abrasion resistant coating (all styles), or UL1, 2, or 3 glass clad polycarbonate (TS-G or VW styles only).

**Finish:** All steel doors are prime painted, with a finish paint color available.

## Door Selector Page – Wood

Bullet resistant wood doors are manufactured from solid wood cores lined with UL1, 2, or 3 bullet resistant fiberglass. Each door is customized to meet your specific requirements. Wood doors are available with a variety of glazing arrangements. Existing frames can be used, or a selection of ballistic anodized aluminum, steel (welded), or steel (knock-down) are available. TS-A, TS-B, and TS-G style doors have a rear retaining flange, available in painted steel or stainless steel. View windows have clamp-on style retaining flanges, available in painted steel or stainless steel.



Solid Door (SD)



Peep Hole (PH)

View Window (VW)  
Standard Sizes  
10x10, 12x18, 20x30

Transaction Station  
Baffle Style (TS-B)  
Std. Size 20"x37" at  
Handicap Height

Transaction Station  
Arched Style (TS-A)  
Std. Size 20"x38" at  
Handicap Height

Transaction Station  
Glass (TS-G)  
Std. Size 14"x28" at  
Handicap Height

### Specification:

**Material:** High density particle board lined with bullet resistant fiberglass (UL1, 2, or 3)

**Glazing:** UL1, 2, or 3 acrylics with or without an abrasion resistant coating (all styles), or UL1, 2, or 3 glass clad polycarbonate (TS-G or VW styles only).

**Finish:** All wood doors are available with a choice of plastic laminate, stained veneer, or painted phenolic finished.

## Door Selector Page – Frame

Bullet resistant doors can be installed in the existing (usually non-ballistic) frame or a selection of ballistic anodized aluminum, steel (welded), or steel (knock-down) are available. Ballistic frames are lined to the bullet resistant level selected or greater.



Anodized Aluminum

Steel (Knock-Down)

Tested UL3 aluminum – see framing page  
Steel welded available

### Specifications:

Material: Aluminum or 16 gauge steel.

Armor: UL 2 or 3

Finish: Aluminum frames are dark bronze or clear anodized standard, and can be sent out to be powder coated or Kynar painted a variety of colors (substantial lead times and charges apply). Steel doors are prime painted standard, can be painted as desired.

# UL 3 Aluminum Framing System (A)

Proprietary Design. Contact ARMI for specifications and detail drawings.

## UL 3 Aluminum Framing System (B)

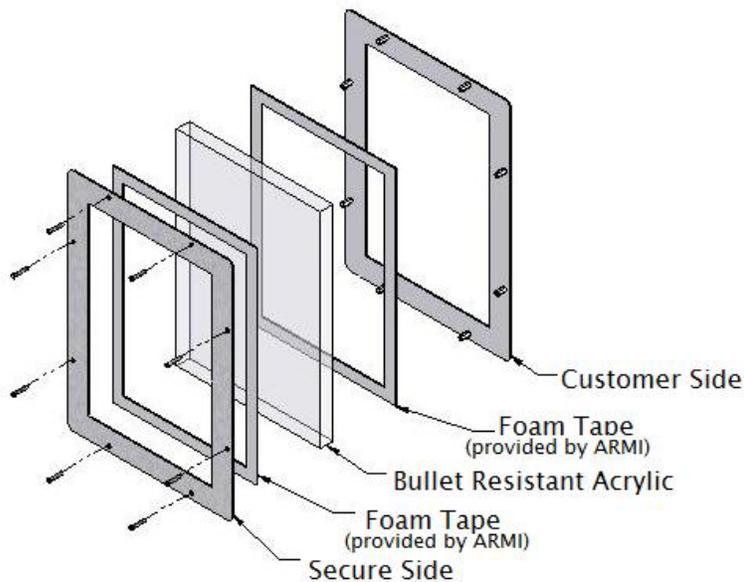
Proprietary Design. Contact ARMI for specifications and detail drawings.

# UL 3 Aluminum Framing System (C)

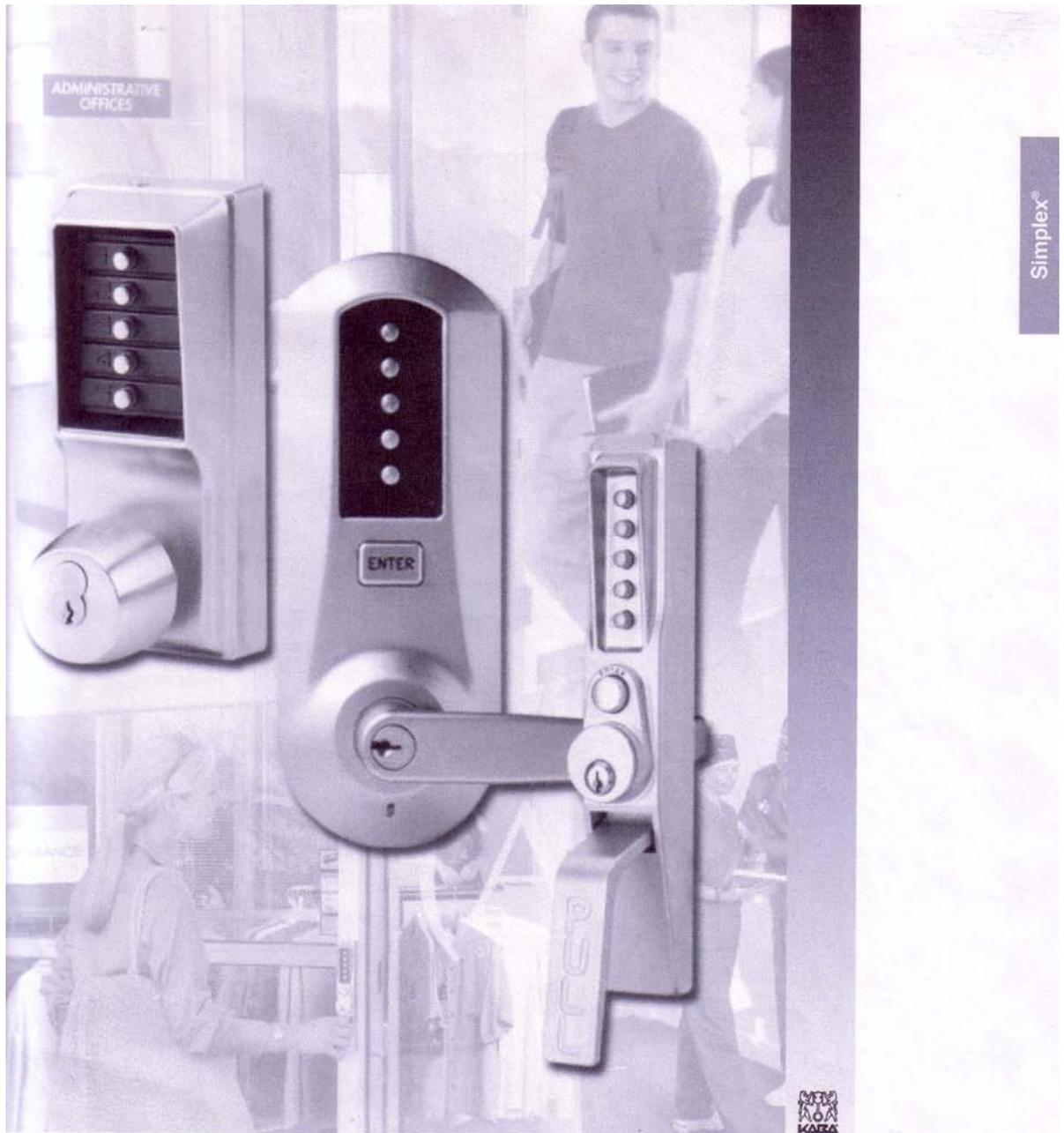
Proprietary Design. Contact ARMI for specifications and detail drawings.

# Bullet Resistant Vision Window Frame For Existing Doors

Each unit is customized and fabricated to fit your specified opening. Available without glazing or with your choice of bullet resistant glazing. Brushed stainless steel or prime painted carbon steel finish. The Level 3 bullet resistant Vision Window Frame allows the addition of a Vision Window to almost any door. Commonly used in security applications, Vision Windows provide a means of viewing people before allowing access into a secured area. Vision Windows are for interior or exterior use, and are available with your choice of bullet resistant glazing. Manufactured from 11 gauge stainless steel with a brushed finish or prime painted 10 gauge carbon steel. Vision Window Frames are fabricated in sizes to fit your specified opening. Standard sizes are 10" x 10", 12" x 18", or 20" x 30". Specify glazing level and door thickness.



## Simplex Locks



**SIMPLEX**<sup>®</sup>  
**Mechanical Pushbutton Locks**  
Keyless Convenience



# Simplex Extra Heavy-Duty Lock Description

Simplex®

## Simplex® 5000 Series Extra Heavy-Duty Lock



Simplex® 5000 Series

### Description

The latest addition to the line of mechanical pushbutton locks, the Simplex® 5000 offers unparalleled strength, convenience, and flexibility. Exterior access is by combination. Egress is by interior lever and is free at all times.

### Application

Ideal for high-traffic security-sensitive areas where access control is required:

- Commercial
- Industrial
- Educational
- Governmental
- Lodging
- Multi-Unit Residential Settings
- Military
- Institutions

Perfect for high employee-turnover locations:

- Data processing centers
- Employee entrances
- R&D labs
- Motels
- Dormitories
- Volunteer Fire Departments
- Hospitals
- Airports
- Telephone Companies
- Fast Food Chains
- Banks

### Features

- **Extra heavy-duty:** Internal drive parts of cast stainless steel.
- **Direct-drive design:** Clutch-free, decreasing possibility of internal breakage and the subsequent linkage repairs.
- **Non-handed:** Fits left and right hand doors - changes in seconds.
- **Easy to install:** Fewer parts, better fit, simpler instructions.
- Three-year warranty.

### Optional Features

- Combination change from secure (interior) side of door with special tool for higher security. Meets DOD requirements and precludes unauthorized access to combination changes.



## Simplex® 5000 Series Extra Heavy-Duty Lock

### Mechanical Features

<b>Construction:</b>	Extra heavy-duty cylindrical lock; solid cast housing and solid cast zinc levers, stainless steel cylindrical drive components		
<b>Installation:</b>	ASA 161 door preparation with 4 additional through bore holes; retrofits cylindrical & tubular locksets with a 2 3/4" (70 mm) backset		
<b>Door handing:</b>	Non-handed, field reversible (pre-assembled for left-hand door installations)		
<b>Numeric pushbuttons:</b>	Vandal resistant, 5 button, plus Enter button, anodized aluminum, mechanical		
<b>Weight:</b>	8.0 lbs. (3.65 kg)		
<b>Strike:</b>	ASA and standard strike plates are included		
<b>Backset:</b>	2 3/4" (70 mm)		
<b>Latch:</b>	1/2" (13 mm) throw latch, floating face plate 3/4" (19 mm) throw latch, beveled face plate		
<b>Key override:</b>	Universal key-in-lever cylinder (XIK) with Universal Kaba High security 1539 6-pin cylinder included. Kaba 90 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 Ico 1599	Kaba 1539
	Marks	Medeco 20W200H1	Sargent 10 Line
	Schlage 23-001	Schlage Primus 20-760	
	Models prepared for small format interchangeable cores: Best compatibles (6 or 7 pin length).		
	Models prepared for large format removable cores: Schlage, Medeco, ASSA, and Yale.		
<b>Door thickness:</b>	1 3/4" (35 mm) to 2 1/4" (57 mm) Pre-assembled to accommodate doors 1 3/4" to 2" (41 to 51 mm)		
<b>Finish:</b>	Satin Chrome 26D (626), lifetime Satin Brass 04 (606), Duranodic 55 (695), lifetime Bright Brass 03 (605), Black (676)		
<b>Minimum stile requirement:</b>	5" (127 mm)		

### Lock Operation

<b>Combination code:</b>	One code per lock made of any combination of one to five numbers (pressed individually or simultaneously)
<b>Number combinations:</b>	Thousands of possible combinations
<b>Code changing:</b>	Accomplish with the lever release combination change tool from the lock exterior (model 5021) or from the lock interior (model 5031)
<b>Emergency access:</b>	Mechanical key override

### Certification and Testing

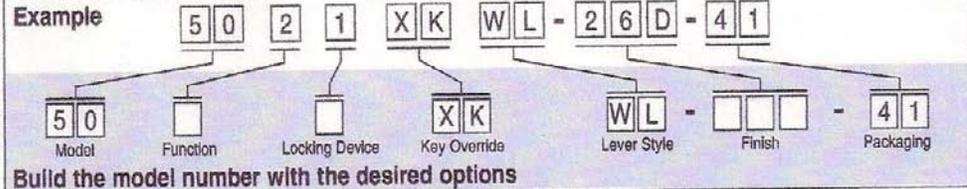
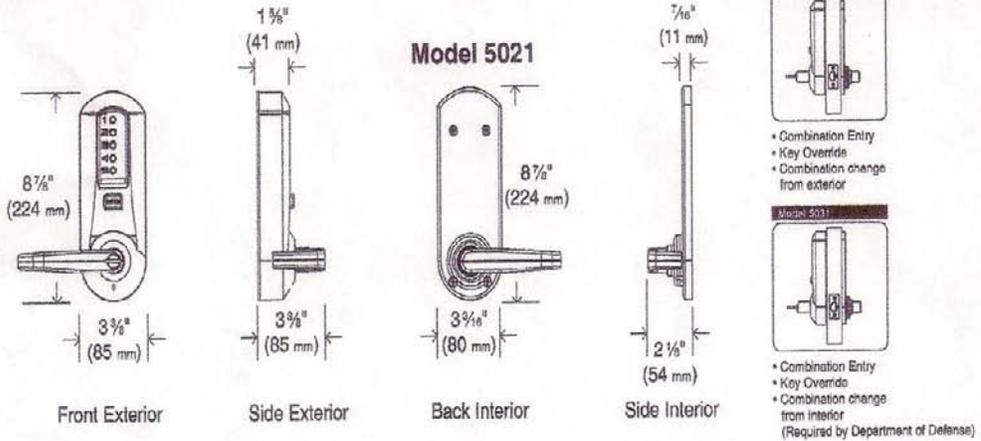
<b>Accessibility standard:</b>	Americans with Disabilities Act (ADA)
<b>Fire rating:</b>	Three-hour UL/ULC Fire rating for "A" label doors
<b>Environmental operating conditions:</b>	Highly weather resistant
<b>Durability:</b>	ANSI/BHMA A156.2, Grade 1 Certified
<b>Warranty:</b>	3 years



# Simplex Extra Heavy-Duty Lock Examples

Simplex

## Simplex® 5000 Series Extra Heavy-Duty Lock



Model	Function	Locking Device	Key Override	Lever Style	Finishes	Packaging
50 5000 Series Cylindrical lock	2 Combination entrance - standard	1 1/2" (13 mm) throw latch floating face plate	Removable Core Cylinders Compatible with removable core cylinders (not supplied)	WL Lever	26D Satin Chrome (626)	41 1 per box
	3 Combination entrance - combination change from secure (interior) side of door. Meets DOD regulations	2 3/4" (70 mm) backset	C Corbin/Russwin		04 Satin Brass (606) Lifetime finish	<b>Locks shipped 4 per case</b>
	4 Combination entrance - standard Passage	5 3/4" (19 mm) throw latch beveled face plate 2 3/4" (70 mm) backset	M* Medeco/ASSA/Yale (6-pin length). *5-pin Medeco cylinder requires a special knob spacer. Request spacer when ordering, part number 201669 (supplied free of charge)		65 Duranodic (695)	
	5 Combination entrance - combination change from secure (interior) side of door. Meets DOD regulations. Passage		R Sargent S Schlage		03 Bright Brass (605) Lifetime finish	
			Interchangeable Core (not supplied)		676 Black	
			B Beet & Compatibles (6 or 7-pin length)			
			Key-in-Lever Cylinder			
			XK Key-in Lever Cylinder (cylinder included-Kaba keyway)			
			XS Key-in Lever Cylinder (cylinder included-Schlage keyway)			
				<ul style="list-style-type: none"> <li>• Latch</li> <li>• ASA strike</li> <li>• Standard strike plate</li> <li>• Strike Box</li> <li>• Installation Manual</li> <li>• Full-scale template</li> </ul>		<ul style="list-style-type: none"> <li>• Spare inside lever set screw</li> <li>• Lever release combination change tool</li> <li>• Hardware required for thin and thick door installations.</li> </ul>
				<b>Cylinder model only</b>		
				<ul style="list-style-type: none"> <li>• Universal Kaba High Security 1539 6-pin cylinder with tailpiece</li> <li>• Four additional tailpieces</li> </ul>		<ul style="list-style-type: none"> <li>• Two nickel silver keys</li> <li>• Spare cylinder retainer</li> </ul>



## 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.

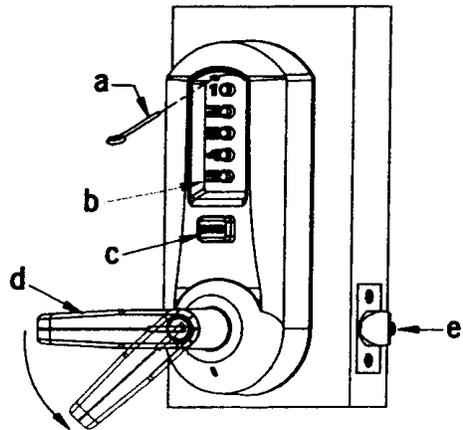
**Note:** The combination change can be done without removing lock from door. Ensure that the door is open during this procedure.

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

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

**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.**

**\*\*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.



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

**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.

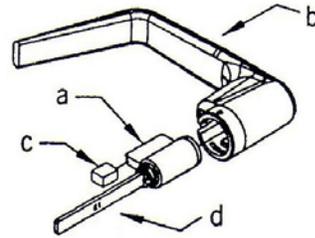
### Combination Setting Record

Combination	& ENTER	Date
	& ENTER	

## 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.

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.



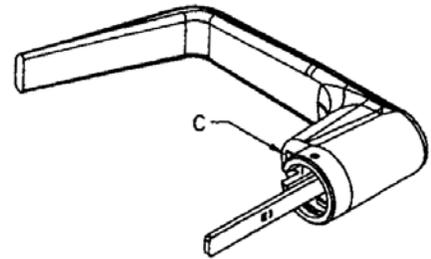
Determine the proper tailpiece (d) from the chart below for your KIL cylinder.

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

Assemble the required tailpiece (d) (supplied) with your KIL cylinder.

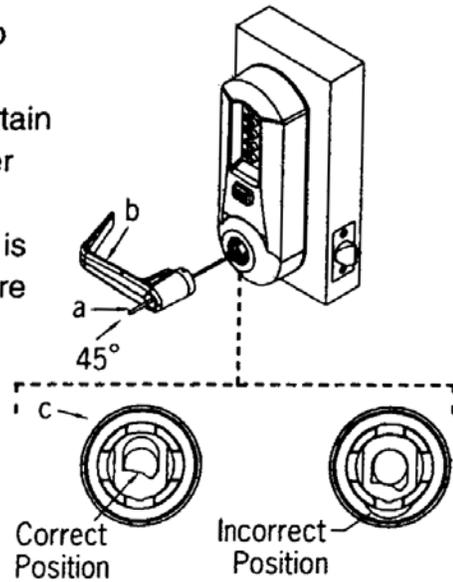
TAILPIECE	KIL CYLINDER
	Abloy 5277, Abloy 5477, Assa 65691, Kaba Ilco 15395
	Assa 65611, Australian, Corbin-Russwin 2000-03, Kaba Ilco 1599, Schlage 23-001, Schlage Primus 20-760
	Medeco 20W200H1
	Arrow C100, Sargent 10 LINE
	MARKS

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.



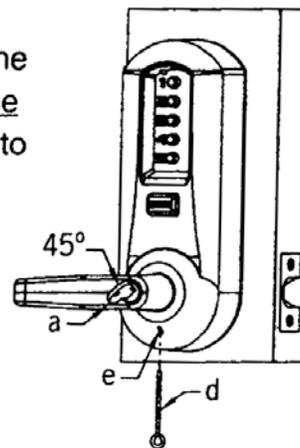
### Installing/Removing Outside Lever

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.**

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.



## Reset a Lost or Unknown Combination

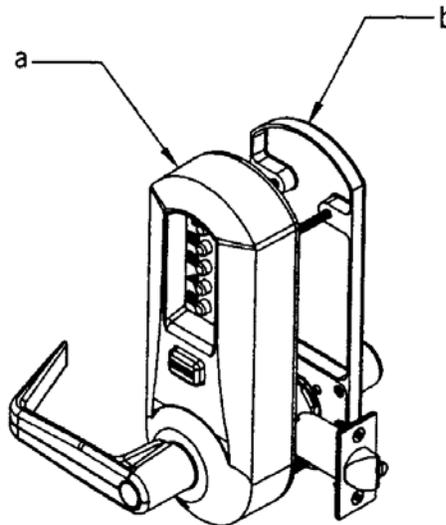
### HOW TO RESET A LOST OR UNKNOWN COMBINATION

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).

#### Removing Lock From Door

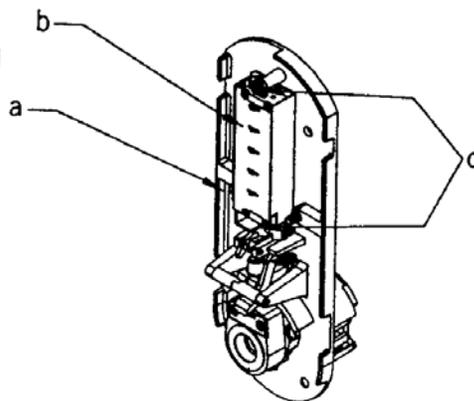
Remove both the outside lock housing (a) and the inside lock housing (b).



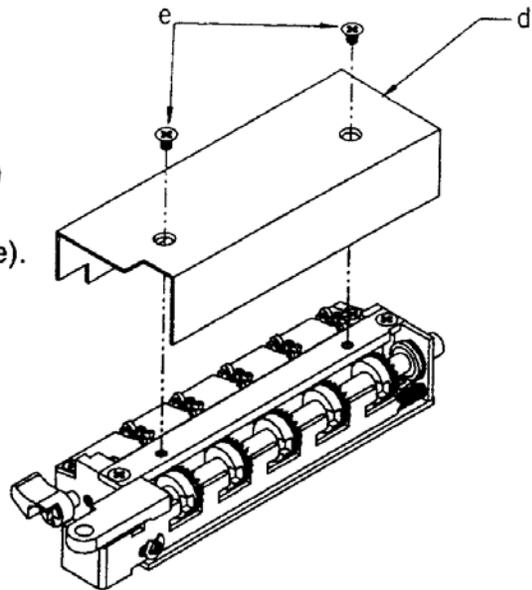
#### Removing Combination Chamber Assembly

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).



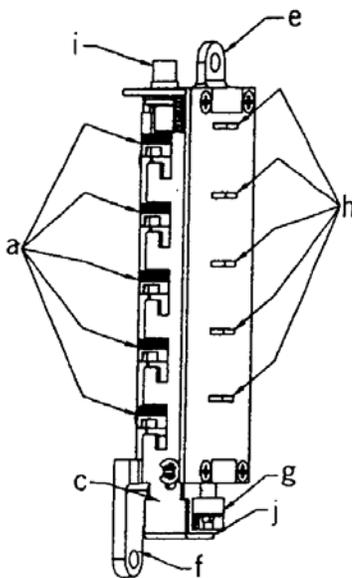
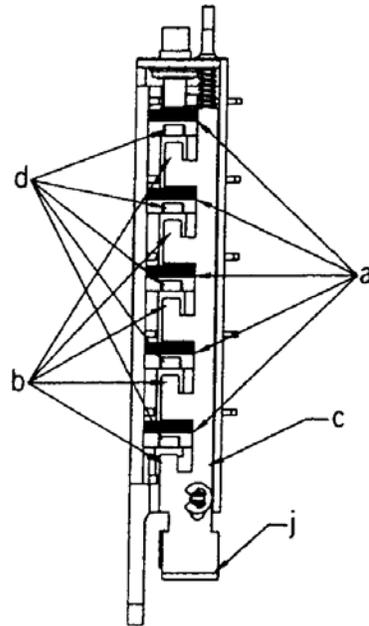
Remove the 3-sided dust cover (d) to fully expose the chamber by removing 2 small Phillips screws (e).



## Reset and Recover Current Code

### 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 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.

### **Clearing the Current Code and Setting a New Code**

Perform the above procedure 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.

## Reinstall and Retest

### **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.

### **Reinstall lock on door**

**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.

## Trouble Shooting

Symptom	Possible Cause	Remedy
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 except omit steps 1 and 2 (do not enter the existing combination).
The outside lever will not go completely inside the outside lock assembly.	Lever catch is misaligned	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 Installing and Removing the Outside Lever.
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.
Cannot remove key from outside lever – key is stuck.	Key was rotated 180 degrees in wrong direction.	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 under Installing and Removing the Outside Lever.

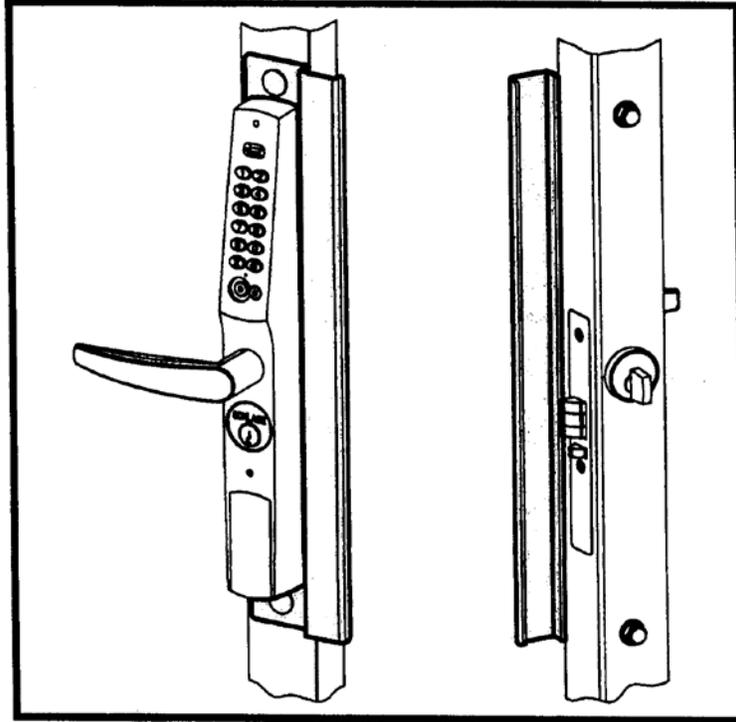
# SCHLAGE Installation Manual



## KING COBRA/KING COBRA-2 NARROW STILE SERIES

### INSTALLATION MANUAL

#### KC9000-LG



#### KC9000 Latch Guard

“Option for Medium Stile Aluminum Doors”



**Code/iButton Functions:**

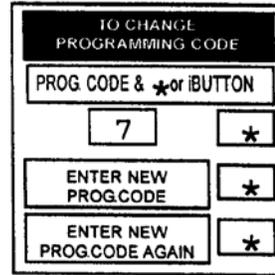
The twelve-button King Cobra family of locks is manually programmable to have up to 120 codes. The codes can have different functions as described below. Several types of functions have factory default values which are operational as soon as the lock is installed. It is highly recommended that the *Programming Code* be changed (this will delete all factory default codes) and new codes be added. In addition, it is recommended that at least one *Freeze/Lockout Code* be added - in case the batteries get completely drained. (See "Battery Information" below.) All codes can be 3-6 digits in length (except the Programming code which must be 5-6 digits.) Keep a log of all issued codes. A sheet is provided for this purpose at the end of this manual. It can be duplicated as required.

FUNCTION:	FACTORY DEFAULT:	DESCRIPTION:
PROGRAMMING	9 7 5 3 1	The programming code (or iButton) puts the lock into a programming mode. It will not unlock the lock. When a Programming code plus "*" is entered the LEDs alternately flash several times indicating the lock is in a programming mode. If more than 30 seconds pass in between programming entries, the lock returns to a normal operational state.
NORMAL	1 3 5 7 9	Normal codes/iButtons unlock the lock for the relock time delay. While the lock is unlocked the green LED will flash. The LED will stop flashing and the lock will relock.
TOGGLE	1 3 5 1 3 5	Toggle code/iButtons unlock the lock indefinitely. When the same (or another) toggle code/iButton is entered, the lock will immediately relock. When a toggle code is entered, the green LED will flash once. (When a lock is toggled unlocked, both LEDs will light each time a button is pressed.)
FREEZE/LOCKOUT	9 1 1 5	Freeze/Lockout codes prevent other codes from working. The lock can be locked or unlocked when one is entered. If it is locked, a Pass Thru code will unlock it but all other codes will not. Only another Lockout code will reverse the effect.
ONE USE	NONE	One Use codes unlock the lock for the relock time delay. They will only work once and then are deleted from memory. They can be used again if they are programmed (added) into memory again.
SUPERVISED	NONE	Supervised codes require that two different supervised codes be entered in order to unlock the lock for the relock time delay.
PASS THRU	NONE	Pass Thru codes will unlock the door for the relock time delay even if the door is in the lockout mode.

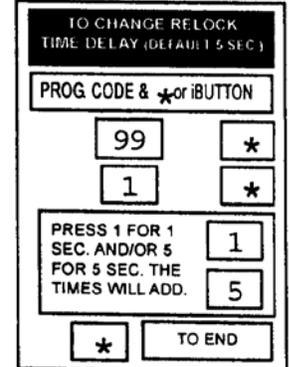
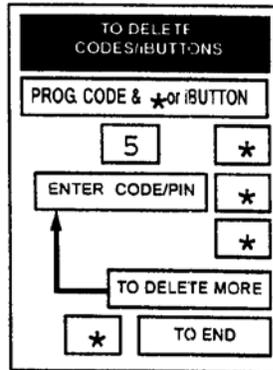
**PROGRAMMING GUIDE**

**SCHLAGE KING COBRA - 12 BUTTON**

It is highly recommended that the programming code be changed for maximum security. It can be changed to a different 5-6 digit code or to an iButton, if desired.



Codes and iButtons can be deleted using these steps. It is required that the PIN be used to delete an iButton, therefore it is necessary to keep a record of the PINs associated with each iButton.



**BATTERY INFORMATION:**

The KC5100/5500 uses four, standard AA *ALKALINE* batteries. The KC9000 uses four AAA *ALKALINE* batteries. The batteries should provide enough life for approximately 80,000 lock/unlock cycles (40,000 for the KC9000). When the batteries are running out the lock provides two different modes of low battery indication: First, when a code is entered, the red LED will flash twelve times before the lock executes the command of the code. This is an indication that it is time to replace the batteries. The lock will go for about 500 cycles in this condition. After it reaches a certain point the lock will go into "Low Battery Lockout" mode. A Freeze/Lockout code will need to be entered in order gain access. If the batteries are not changed, the lock will eventually not work and mechanical key override will need to be used.

**CLEARING MEMORY:**

Clearing memory will delete all programmed codes and iButtons and restore factory default codes. The programming code or iButton will also be deleted and the default programming code will be restored. If the memory ever needs to be erased follow the steps below:

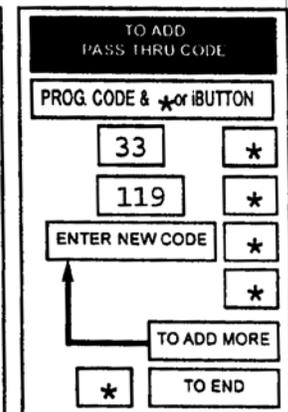
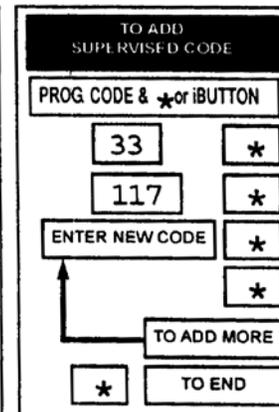
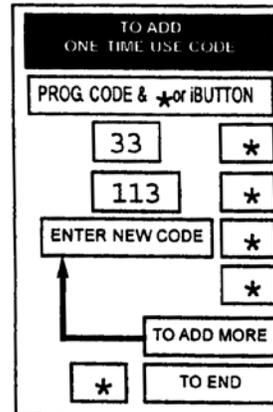
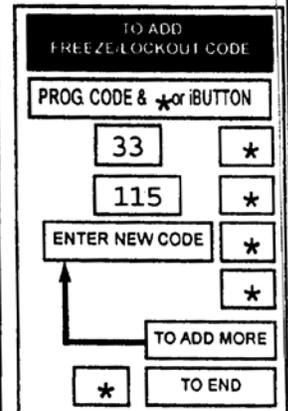
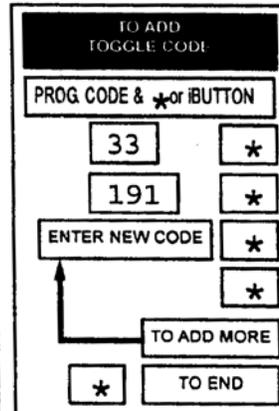
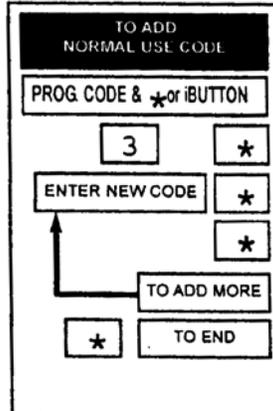
1. Remove the inside escutcheon. Remove one of the batteries (or disconnect the connector).
2. Press any key.
3. Hold down the "\*" key and reinstall the battery (or reconnect the connector). Continue holding the "\*" key down. The red LED will flash a few times and then stay on.
4. Release the "\*" key.
5. Install the inside escutcheon.

Note: to return the lock to the factory default relock time delay, do steps 1-4 twice in a row.

ERROR CODE DESCRIPTION	
2	Code too long 6 digits max.
3	Memory full, must delete some codes
4	Can not delete Programming code - use Change steps.
5	Second entry did not match first (Programming Code)
6	Invalid entry, start over. (Verify that any codes entered prior to this error do not operate the lock.)
7	Code to be deleted does not exist.
8	Code too short - 3 digits minimum.
9	Duplicate code, code already exists.

PROGRAMMING STEPS - HOW TO ENTER CODES:

Use the steps on this page to program codes into the lock. The "\*" key is used like the <ENTER> key is on a computer. After pressing the "\*" key, wait for the red and green LEDs to stop flashing before proceeding to the next step. If at any time the red LED stays on while the green LED flashes an error has occurred. The flashing message will repeat three times. Count the number of flashes and consult the error code chart below.



**PROGRAMMING GUIDE** **SCHLAGE KING COBRA - 12 BUTTON**

**PROGRAMMING STEPS - HOW TO ENTER iBUTTONS:**

Use the steps on this page to program iBUTTONS into the lock. Note that each iButton must have a PIN associated with it. This must be a unique, 3-6 digit code. It will not open the door and it can not be used as an access code. It is important to record the PINs so that the iButton can be deleted if it is lost.

**TO ADD  
NORMAL USE CODE**

PROG. CODE & \*or iBUTTON

3      \*

ENTER NEW PIN      \*

ENTER iBUTTON

↑

TO ADD MORE

\*      TO END

**TO ADD  
TOGGLE CODE**

PROG. CODE & \*or iBUTTON

33      \*

191      \*

ENTER NEW PIN      \*

ENTER iBUTTON

↑

TO ADD MORE

\*      TO END

**TO ADD  
FREEZE/LOCKOUT CODE**

PROG. CODE & \*or iBUTTON

33      \*

115      \*

ENTER NEW PIN      \*

ENTER iBUTTON

↑

TO ADD MORE

\*      TO END

**TO ADD  
ONE TIME USE iBUTTON**

PROG. CODE & \*or iBUTTON

33      \*

113      \*

ENTER NEW PIN      \*

ENTER iBUTTON

↑

TO ADD MORE

**TO ADD  
SUPERVISED iBUTTON**

PROG. CODE & \*or iBUTTON

33      \*

117      \*

ENTER NEW PIN      \*

ENTER iBUTTON

↑

TO ADD MORE

**TO ADD  
PASS THRU iBUTTON**

PROG. CODE & \*or iBUTTON

33      \*

119      \*

ENTER NEW PIN      \*

ENTER iBUTTON

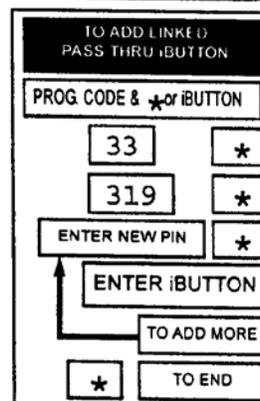
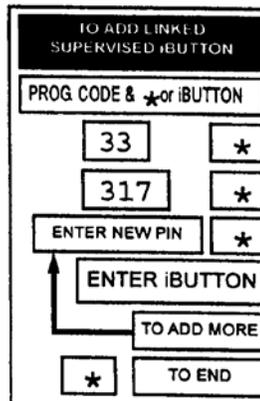
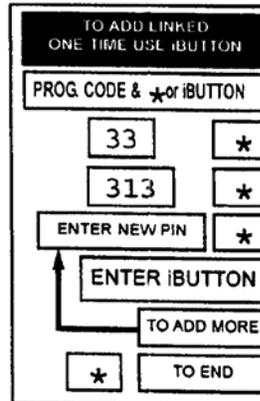
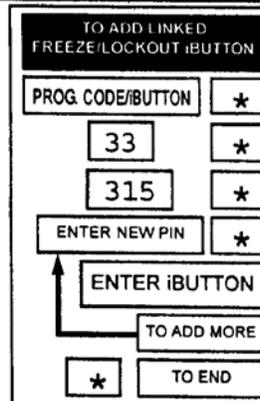
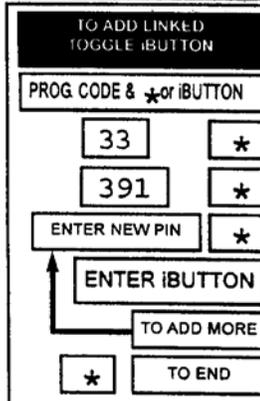
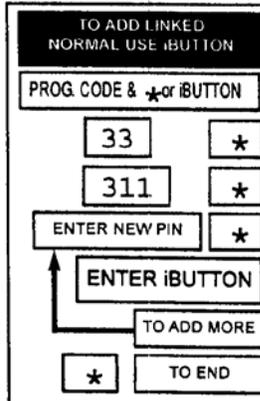
↑

TO ADD MORE

PROGRAMMING STEPS - HOW TO ENTER LINKED ACCESS iBUTTONS:

Use the steps on this page to program iBUTTONS with Linked Access. Linked Access adds a higher level of security in case an iButton gets lost or stolen.

To use a Linked Access iButton, enter the iButton into the lock and then enter the PIN associated with it.



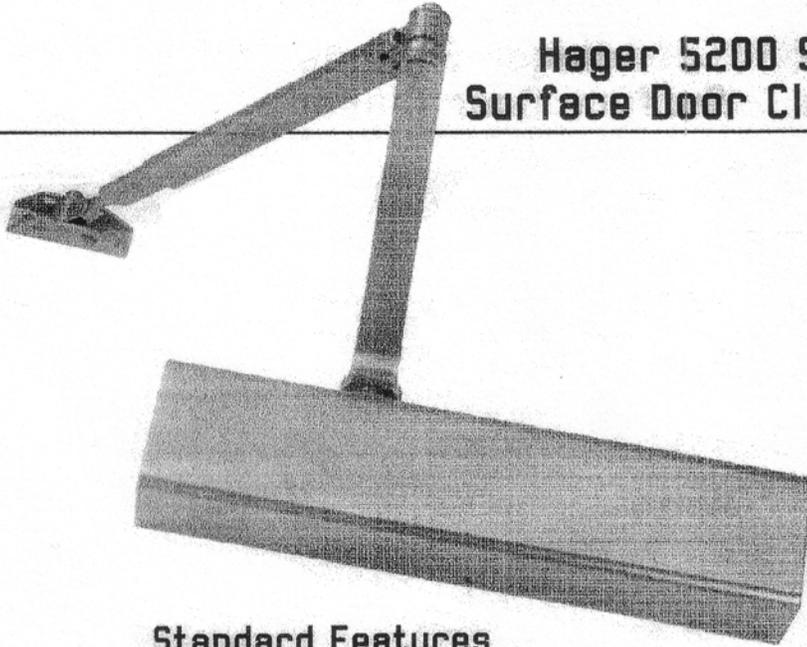


# Hager Door Closer

## Door Closers



### Hager 5200 Series - Grade 1 Surface Door Closer - Slim Line



#### Standard Features

- BHMA Certified ANSI A156.4 Grade 1
- Lifetime Warranty
- UL/cUL Listed for up to 3 hours
- UL10C UBC 7-2 (1997) Positive Pressure Rated
- UL10B Neutral Pressure Rated
- Aluminum Body
- Full Plastic Cover
- Non-Handed
- Tri-packed for mounting Regular Arm, Top Jamb and Parallel Arm
- Size Adjustable from 2 to 5
- Size Adjustable from 1 to 4 for Barrier Free 
- Door Thickness 1 3/4"
- Painted Finishes

# Hager Surface Door Closer

## Door Closers

### Hager 5200 Series - Grade 1 Surface Door Closer - Traditional

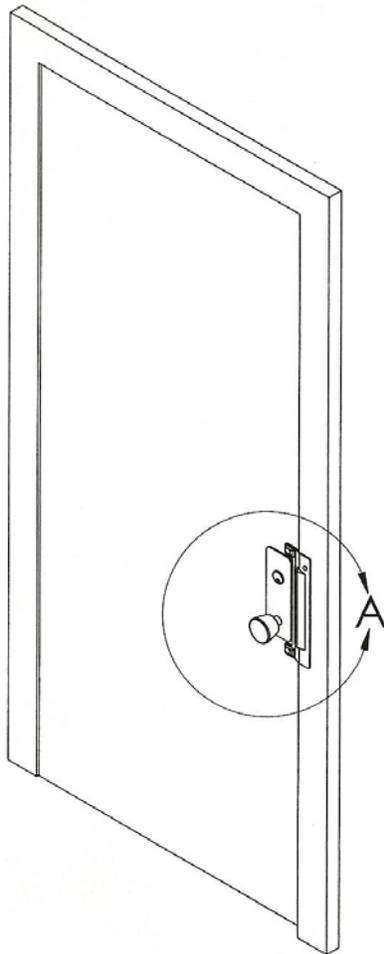
#### PRODUCT FEATURES:

- Applications:**
- Heavy Duty Commercial
- Certifications:**
- BHMA Certified ANSI A156.4 Grade 1
  - ADA Compliant ANSI A117.1 Accessibility Code Size 1 to 4
  - UL/cUL Listed for up to 3 hours
  - UL10C Positive Pressure Rated
  - UL10B Neutral Pressure Rated
- Closer Body:**
- Aluminum
- Springs:**
- Double heat treated steel, tempered springs
  - Precision machined, heat treated steel piston
  - Triple heat treated steel spindle
- Valves:**
- Adjustable latching and sweep speed valve
  - Adjustable backcheck valve
  - Delayed action valve - Optional
- Cover:**
- Full Plastic Cover - Standard
- Handing:**
- Non-Handed
- Arms & Brackets:**
- Tri-Pack - Regular Arm, Top Jamb and Parallel Arm
- Fasteners:**
- Self tapping wood and machine screws - Standard
  - Sex nuts and bolts - Standard
- Door Thickness**
- 1 3/4" - Standard
  - 1 3/8" - 2" - Optional
- Warranty:**
- Lifetime Warranty
- Finishes:**
- Painted - Aluminum, Bronze, Dark Bronze, Gold

# Latch Guard

## LATCH GUARD UNIVERSAL 11-3/4"

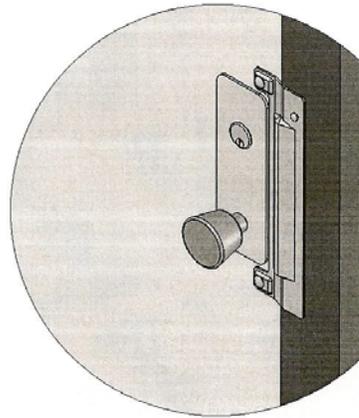
- For Out-Opening Doors, With 1" x 8-3/4" Lockset Clearance Cutout
- All Backsets
- Single Locks, Double Locks up to 6" on Center
- Combination Locks, Mortise Locks and Access Control Locks:  
Protects Latch OR Bolt.
- Conceals Lip of Existing Strike.
- Reinforced Mounting Area
- 12 Ga. Steel Body



Size: 3-1/2" x 11-3/4"

Available In Three finishes:

<u>FINISH</u>	<u>PART NO</u>
Aluminum	8849-AL
Brass	8850-B
Chrome	8850-C



We use only the highest quality products in our systems.

**MAG** Security

America's Leading Provider of Home Security Hardware U.S. PAT. 5,415,020 and D 342,224

# Roton Hinge

Model 780-053 HD

## Roton Half Surface

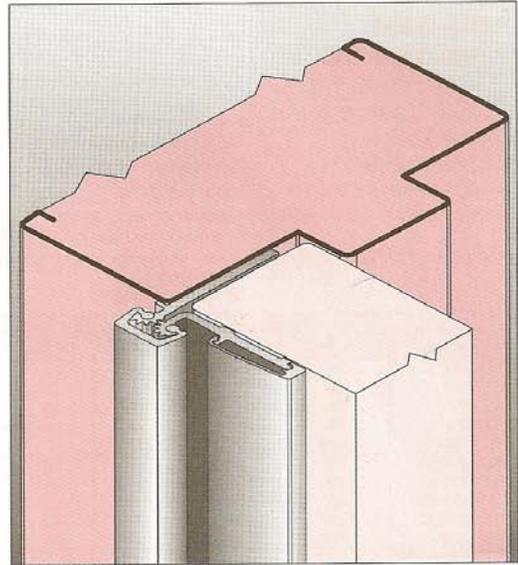


**Door of any Material • Standard and Heavy Duty**  
**Standard Duty for medium frequency 1-3/4" (45 mm) or 1-3/8" (35 mm) doors.**  
**Heavy Duty for high frequency doors or heavy medium frequency doors.**

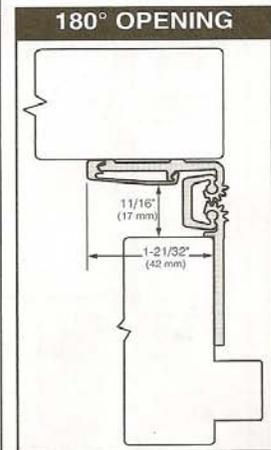
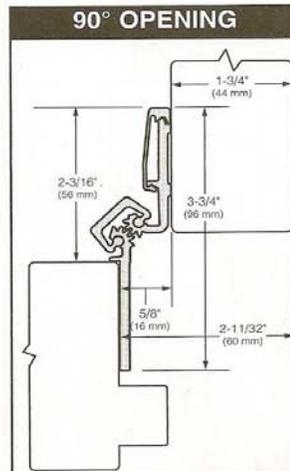
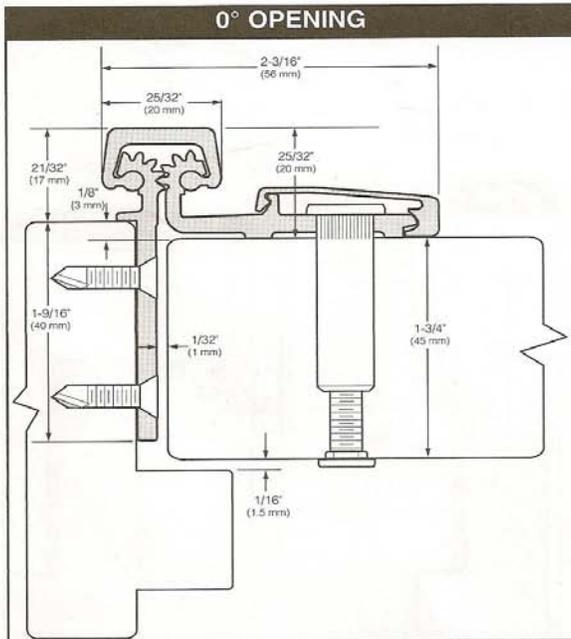


### 780-053 HD

- ▲ FASTENERS: 5/32" (4 mm) frame leaf clearance (1/8" (3 mm) minimum) plus standard lockside clearance  
Dril-Kwick® screws and Sexbolts
- ▲ LENGTH OPTIONS: Standard and Custom
- ▲ DOOR REINFORCEMENT: None required
- ▲ FRAME REINFORCEMENT: None required to 200 lbs. Use 16 gauge channel at higher weight.



Roton model number	Length		Hole Count		
	Inches	Centimeters	# Sex bolts	# Pan Head	# for jamb
780-053HD	79	200.7	8	17	15
780-053HD	83	210.8	8	19	19
780-053HD	85	215.9	8	19	19
780-053HD	95	241.3	9	20	19
780-053HD	119	302.3	10	26	21



**"EVERYTHING HINGES ON HAGER"**

## Roton Full Surface



**Door of any Material • Standard and Heavy Duty**

**Standard Duty for medium frequency doors.**

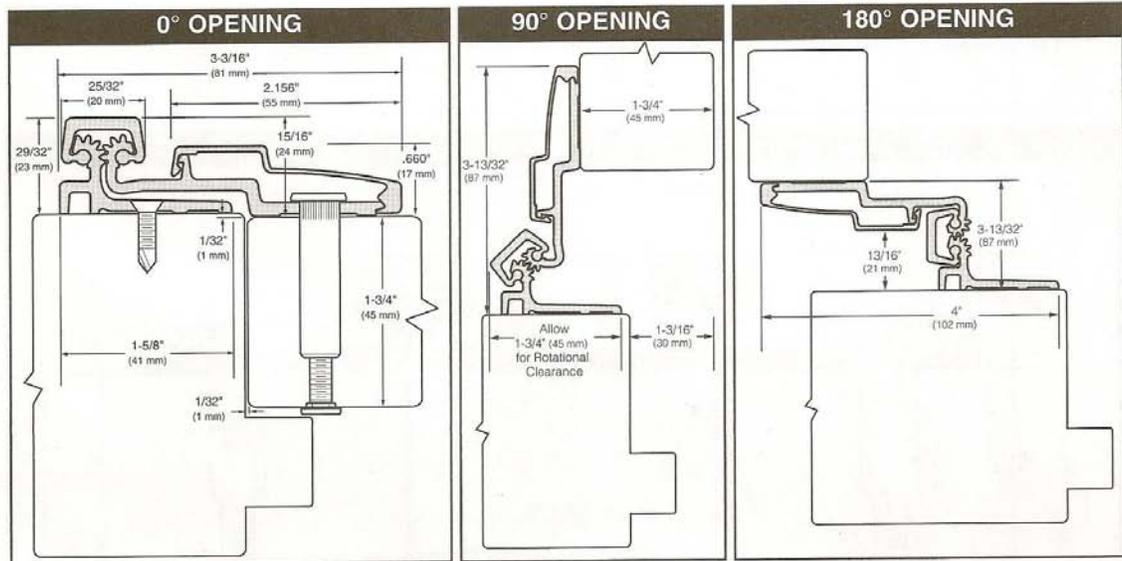
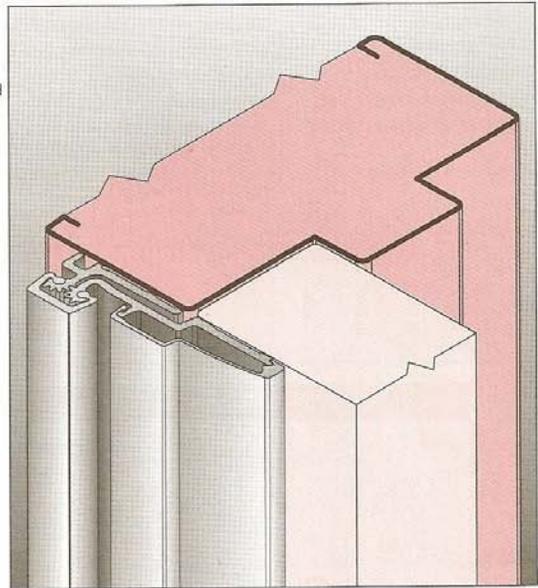
**Heavy Duty for high frequency doors or heavy medium frequency doors.**



### 780-210 HD

- ▲ FASTENERS: None required for hinge side.  
1-5/8" (41 mm) minimum frame face required plus 3/16" (5 mm) rotational clearance
- ▲ LENGTH OPTIONS: Drill-Kwick® screws and Sexbolts
- ▲ DOOR REINFORCEMENT: Standard and Custom
- ▲ FRAME REINFORCEMENT: None required
- ▲ SPECIAL FEATURES: "Zero clearance" required for hinge side. Can be used with any door and frame material. Security moldings

Roton model number	Length		Hole Count		
	Inches	Centimeters	# Sex bolts	# Pan Head	# for jamb
780-210HD	79	200.7	8	17	17
780-210HD	83	210.8	10	17	19
780-210HD	85	215.9	10	17	19
780-210HD	95	241.3	11	18	21
780-210HD	119	302.3	12	24	26



**"EVERYTHING HINGES ON HAGER"**



**Standard 2 1/8" Bore**

For Standard Door Locks with 2-1/8" Bore, Individually Boxed.

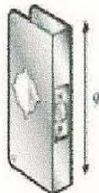
Size :Various



**ADA Lever 2 1/8" Bore**

For ADA Lever Locks with 2-1/8" Bore for Schlage Rhodes, Arrow Sierra, Corbin Russwin 800, Sargent 10, and Yale 5400LN, Individually Boxed.

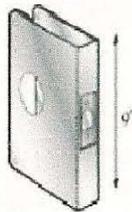
Size :Various



**ADA Lever 2 1/8" Bore**

For ADA Lever Locks with 2-1/8" Bore for Best 93KN, 7000, Marks 170, 190, 195, Sargent 6500 Series and Corbin Russwin #3300, Individually Boxed.

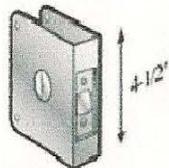
Size :Various



**2 1/8" Bore, 1 3/4" Thick**

For Door Locks with 2-1/8" Bore, 2-3/4", 3-3/4", or 5" Backsets, Fits 1-3/4" Door Thickness, Individually Boxed.

Size :Various

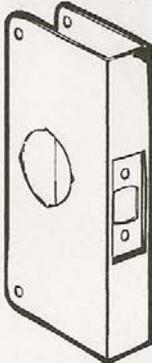
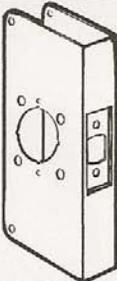
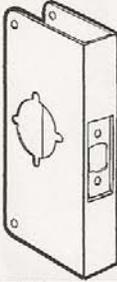
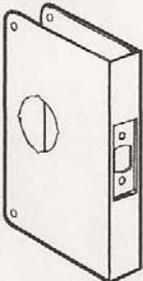


**Schlage Deadbolts, 1 1/2" Bore**

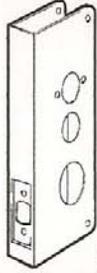
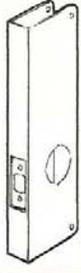
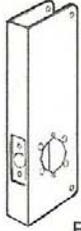
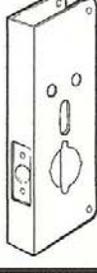
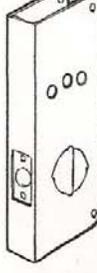
For Schlage Deadbolts with 1-1/2" Bore, Individually Boxed.

Size :Various

# Product Description

<b>MAG Security</b> America's Leading Provider of Home Security Hardware™		<b>COMMERCIAL DOOR REINFORCERS</b>							
<b>PRODUCT DESCRIPTION</b>		<b>PART NO.</b>	<b>FINISH</b>	<b>BACK SET</b>	<b>DOOR THICKNESS</b>	<b>OVERALL SIZE</b>	<b>SHELF PACK</b>	<b>MASTER PACK</b>	<b>UPC (015231)</b>
<b>STANDARD SERIES (BOXED)</b>									
<b>STANDARD 2-1/8" BORE</b>									
 <p>Fits Standard Door Locks with 2-1/8" Bore, Individually Boxed</p>	1-AB	US5/609	2-3/8"	1-3/8"	4" x 9"	1	32	00150 4	
	1-PB	US3/605							00130 6
	1-S	US32D/630							00120 7
	2-AB	US5/609	2-3/8"	1-3/4"	4" x 9"	1	32	00250 1	
	2-PB	US3/605							00230 3
	2-S	US32D/630							00220 4
	3-PB	US3/605	2-3/4"	1-3/8"	4-1/4" x 9"	1	32	00330 0	
	3-S	US32D/630							03200 3
	4-AB	US5/609	2-3/4"	1-3/4"	4-1/4" x 9"	1	32	00450 5	
	4-BN	US10/612							00410 9
4-PB	US3/605	00430 7							
4-S	US32D/630	00420 8							
4-S-12	US32D/630	2-3/4"	1-3/4"	5" x 12"	1	20	04122 7		
<b>ADA LEVER 2-1/8" BORE</b>									
 <p>For ADA Lever Locks with 2-1/8" Bore for Schlage® Rhodes, Arrow Sierra, Corbin Russwin 800, Sargent 10 and Yale 5400LN</p>	4-BN-2	US10/612	2-3/4"	1-3/4"	4-3/4" x 9"	1	18	04021 3	
	4-S-2	US32D/630							04022 0
	4-10B-2	US10B/613							04026 8
<b>ADA LEVER 2-1/8" BORE</b>									
 <p>For ADA Lever Locks with 2-1/8" Bore for Best 93KN, 7000, Marks 170, 190, 195, Sargent 6500 Series and Corbin Russwin #3300</p>	4-S9KN	US32D/630	2-3/4"	1-3/4"	4-3/4" x 9"	1	18	00492 5	
<b>ADA LEVER 2-1/8" BORE</b>									
 <p>For ADA Lever Locks with 2-1/8" Bore for Schlage® Rhodes, Arrow Sierra, Corbin Russwin 800, Sargent 10 and Yale 5400LN</p>	45-S	US32D/626	2-3/4"	1-3/4"	6-1/2" x 9"	1	18	00452 9	
	55-PB	US3/605	5"	1-3/4"	6-1/2" x 9"	1	18	00553 3	
	55-S	US32D/626							00552 6

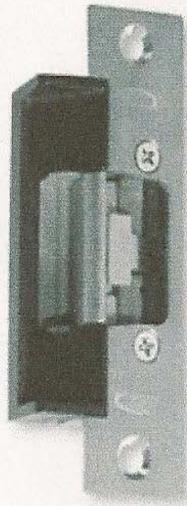
# COMMERCIAL DOOR REINFORCERS

PART NO.	FINISH	BACK SET	DOOR THICKNESS	OVERALL SIZE	SHELF PACK	MASTER PACK	UPC (015231)	PRODUCT DESCRIPTION
								<b>STANDARD SERIES (BOXED)</b>
1000-9S	US32D/630	2-3/4"	1-3/4"	5" x 9"	1	18	10092 4	 <p><b>9" UNIT FOR KEY-IN-KNOB CONVERSION</b></p> <p><b>OR 14" UNIT FOR MORTISE CONVERSION</b></p> <p>For Simplex 1000 Series 5000 Series and Kaba KAA2845</p>
1000-14S	US32D/630	2-3/4"	1-3/4"	5" x 14"	1	23	10142 6	
								<b>COVERS SIMPLEX PREPARATIONS</b>
1004-14PB	US3/605	2-3/4"	1-3/4"	5" x 14"	1	23	14143 9	 <p><b>2-1/8" BORE</b></p> <p><b>4-1/4" FROM BOTTOM FOR KEY-IN-KNOB</b></p>
1004-14S	US32D/630						14142 2	
								<b>COVERS SIMPLEX PREPERATIONS</b>
1004-14S2	US32D/630	2-3/4"	1-3/4"	5" x 14"	1	23	04142 5	 <p><b>2-1/8" BORE</b></p> <p><b>4-1/4" FROM BOTTOM</b></p> <p>For ADA Lever Locks with 2-1/8" Bore</p> <p>For Schlage® Rhodes, Arrow Sierra, Corbin Russwin 800, Sargent 10 and Yale 5400LN</p>
								<b>FOR T2 ALARM LOCK (MODEL #DL2700)</b>
1027-14S	US32D/630	2-3/4"	1-3/4"	5" x 14"	1	23	10272 0	
								<b>FOR T3 ALARM LOCK (MODEL #3000)</b>
5196-14S	US32D/630	2-3/4"	1-3/4"	5" x 14"	1	23	51962 7	 <p><b>FOR SCHLAGE® COBRA LOCK</b></p>

# RCI Electric Strike



## S6514/L6514



S6514 Standard Profile - UL Listed  
L6514 Low Profile - UL Listed  
Field Selectable  
1-1/4" x 4-7/8"  
(31.8mm x 123.8mm)  
Hollow Metal/Wood Frames

- Field selectable lock mode
- Field selectable voltage (12 or 24VDC and 12 to 24VAC)
- Standard version (1-3/16" depth) 3/4" Latch
- Low Profile version (1-1/16" depth) 5/8" Latch
- Horizontal adjustability (up to 1/4")
- Modular plug-in wire connectors
- Optional dual monitor switch (LMKM)
- Manufacturer tested to over 1,000,000 cycles
- Dynamic forces tested to 70 ft. lbs.
- 3 year warranty
- Modular faceplate design for a variety of frame types and cutouts
- Grade 2, 1000lbs Static Strength, 70ft lbs Dynamic Strength, 1,000,000 Endurance Cycles