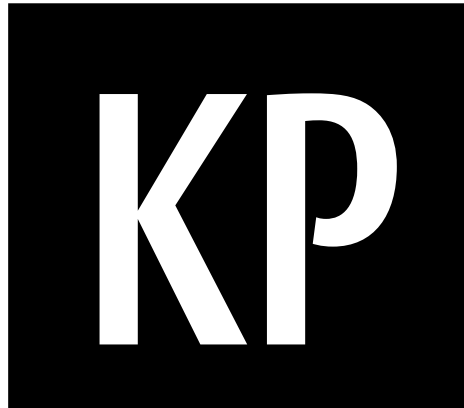# Installation Instructions
Bored Lock

SARGENT®

ASSA ABLOY

KP

Series Keypad with Programming Instructions 10X Line

Attention Installer:

Please read these instructions carefully to prevent missing important steps.

Improper installations may result in damage to the lock and void the factory warranty.

The accuracy of the door preparation is critical for proper functioning and security of this lock.

Misalignment can cause premature wear and a lessening of security.

For specific security information, please contact your local ASSA ABLOY Door Security Solutions sales consultant or call 800-810-WIRE.

A8355A 02/23

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1   Regulatory Compliance

> Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

FCC:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Industry Canada:

This Class B digital apparatus meets all requirements of the Canadian Interference Causing Equipment Regulations. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.
Cet appareillage numérique de la classe B répond à toutes les exigences de l'interférence canadienne causant des règlements d'équipement. L'opération est sujette aux deux conditions suivantes: (1) ce dispositif peut ne pas causer l'interférence nocive, et (2) ce dispositif doit accepter n'importe quelle interférence reçue, y compris l'interférence qui peut causer l'opération peu désirée.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.
Cet équipement est conforme aux limites d'exposition aux radiations de la FCC définies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé à une distance minimale de 20 cm entre le radiateur et votre corps. Cet émetteur ne doit pas être co-localisé ou fonctionner en conjonction avec une autre antenne ou un autre émetteur.

Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.
Conformément à la réglementation d'Industrie Canada, le présent émetteur radio peut fonctionner avec une antenne d'un type et d'un gain maximal (ou inférieur) approuvé pour l'émetteur par Industrie Canada. Dans le but de réduire les risques de brouillage radioélectrique à l'intention des autres utilisateurs, il faut choisir le type d'antenne et son gain de sorte que la puissance isotrope rayonnée équivalente (p.i.r.e.) ne dépasse pas l'intensité nécessaire à l'établissement d'une communication satisfaisante.

2   Warning

This product can expose you to lead which is known to the state of California to cause cancer and birth defects or other reproductive harm.
For more information go to: **www.P65warnings.ca.gov**.
Ce produit peut vous exposer au plomb qui, dans l'état de la Californie, est reconnu pour causer le cancer, des anomalies congénitales ou d'autres problèmes de reproduction.
Pour plus d'informations, visitez: **www.P65warnings.ca.gov**.

Any retrofit or other field modification to a fire rated opening can potentially impact the fire rating of the opening, and SARGENT Manufacturing makes no representations or warranties concerning what such impact may be in any specific situation. When retrofitting any portion of an existing fire rated opening, or specifying and installing a new fire-rated opening, please consult with a code specialist or local code official (Authority Having Jurisdiction) to ensure compliance with all applicable codes and ratings.

ATTENTION
OBSERVE PRECAUTIONS
FOR HANDLING
ELECTROSTATIC
SENSITIVE
DEVICES
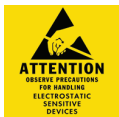
To avoid possible damage from electrostatic discharge (ESD), some basic precautions should be used when handling electronic components:

- Minimize build-up of static by touching and/or maintaining contact with unpainted metal surfaces such as door hinges, latches, and mounting plates especially when mounting electronic components such as readers and controllers onto the door.
- Leave components (reader and controller) protected in their respective anti-static bags until ready for installation
- Do not touch pins, leads or solder connections on the circuit boards

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❸ Parts Breakdown

ITEM	DESCRIPTION	NO. REQ'D
1	Inside Lever (Reference Catalog for Available Styles)	1
2	Rose Scalp	2
4	Inside Rose Spring Assembly	1
5	Through-bolt Screws	2
5A	Plastic Screw Holder	2
6	8 X 1 Self Tap Screw	1
7	Inside Escutcheon Assembly	1
7A	Replacement Inside Controller Assembly Kit	1
8	Flat Head Screw (security)	1
8A	Battery Cover only	1
9	1/8" security hex wrench (not provided)	1
10	Outside Escutcheon & Keypad	1
10A	Keypad Assembly only	1
11	Self Tap Screw Type "AB"	2
12	Fire Stop Plate and Screws	1
13	Lockbody	1
14	Outside Rose Spring Assembly	1
15	Cylinder Spacer	1
16	Cylinder (standard)	1
17	Outside Lever (Reference Catalog for Available Styles)	1
18	Key (provided with cylinder)	A/R
19	Latch	1
20	Screw for standard front and strike	4
21	Strike	1
22	Strike Box	1
23	8-32UNC-2A X 1 1/2" PH Pan Head Mach Screw	1
23A	Washer	1
24	8-32UNC-2A X 1 7/8" PH Flat Head Mach Screw	1
25	Push Pin	1

*Specify Finish

Refer to (mechanical) instruction A8286 for installation.

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3 **Parts Breakdown (Continued)**

Tools Required:
- #2 Phillips screwdriver
- Flat head screwdriver
- 1/8" Security hex key
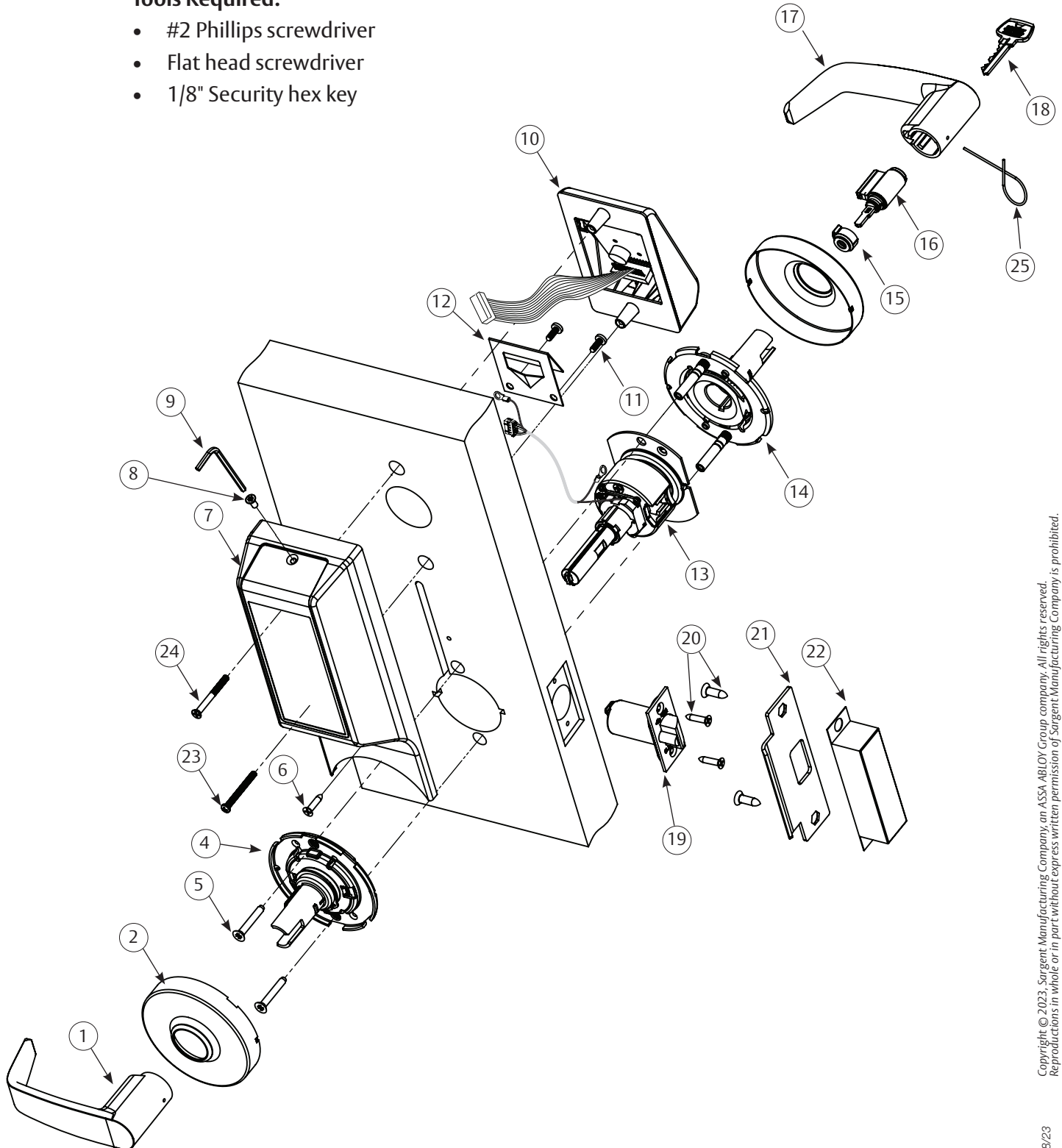
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4 Installation Instructions

Step #1 – Verify Hand and Bevel of Door

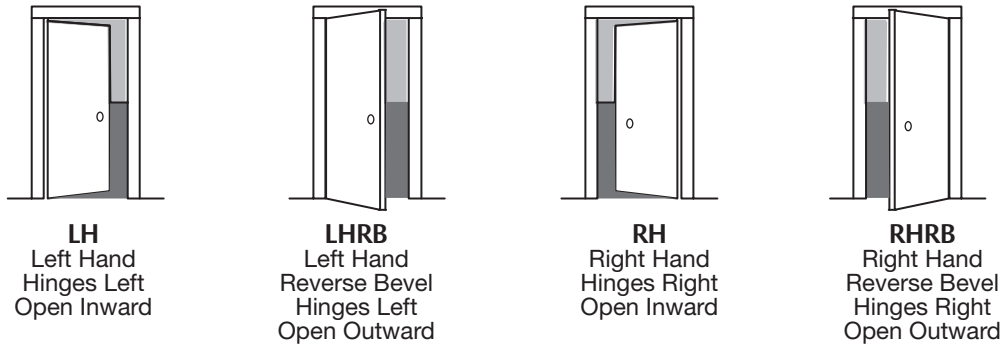Stand on outside/locked side of door when determining the door hand

LH	**LHRB**	**RH**	**RHRB**
Left Hand	Left Hand	Right Hand	Right Hand
Hinges Left	Reverse Bevel	Hinges Right	Reverse Bevel
Open Inward	Hinges Left	Open Inward	Hinges Right
	Open Outward		Open Outward

Fig. 1A

Step #2 – Door Preparation

Prepare door according to appropriate template (see website www.sargentlock.com):
- For metal door template, see 4757
- For wood door template, see A8358
- Prior to installation, all holes must be free of burrs, debris and sharp edges
- If metal doors are not properly reinforced per ANSI/BHMA A156.115, commercially available reinforcements should be installed

Hole for ribbon cable from keypad to controller

Inside of door

Lockbody hole

Latchbolt door prep

Pre-drilled and/or tapped holes 2 places

(2) 1/8" Dia. holes required

7/8"

℄ of 1-1/2" Dia.

1-1/2"

Outside of door

Through-bolt hole (2)
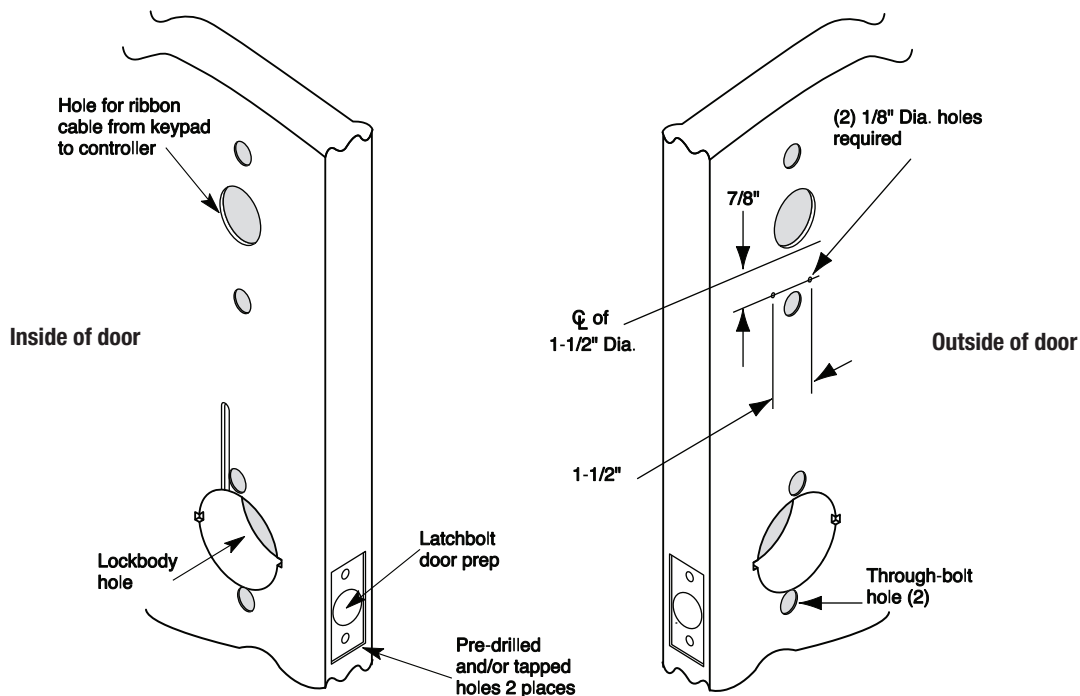
Fig. 1B Wood Door Preparation

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Step #3 – Frame Preparation for Strike
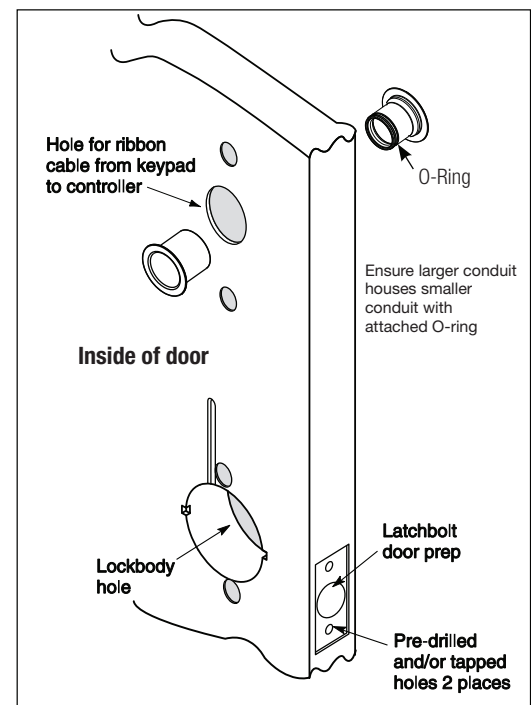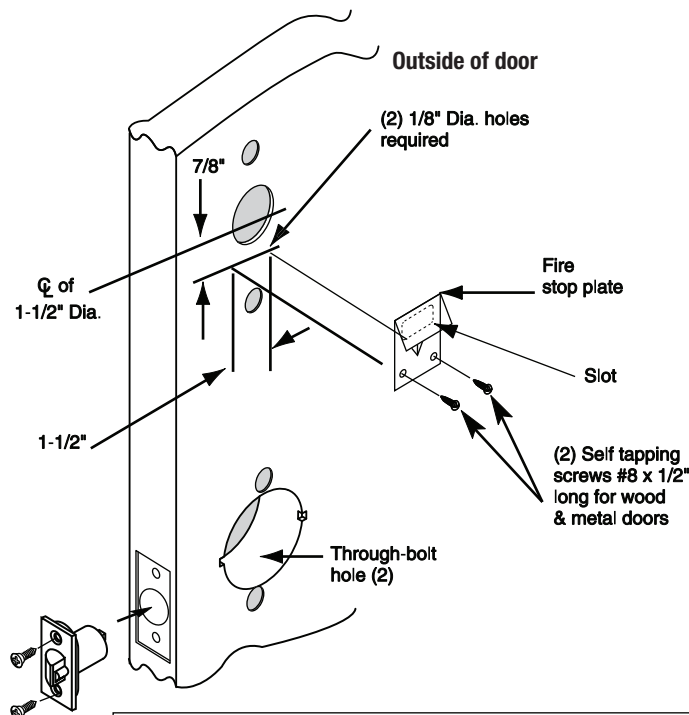

Attaching Screws
#12 -24 x 3/4"

Optional Strike
Box
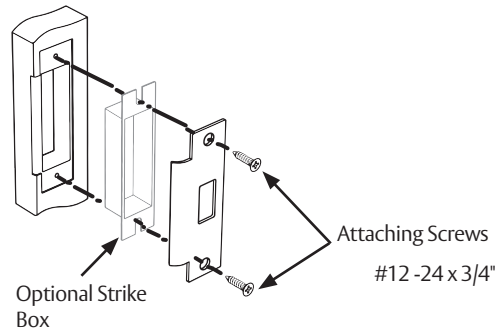
Step #4 – Latch and Fire Stop Plate Installation

1. Install latch with beveled bolt facing the strike
2. Attach with two screws, but DO NOT tighten completely at this time
3. Attach Fire Stop Plate with two screws

Note: Required for all Fire Rated doors
Fire Rated Doors– Install Fire Stop Plate
(P/N 52-0033) as shown below:

Non Fire Rated Exterior Hollow Metal Doors*

Install Weather Conduit supplied with
Weatherization Kit (P/N 52-6084) as
shown below:

Outside of door

(2) 1/8" Dia. holes
required

7/8"

Fire
stop plate

℄ of
1-1/2" Dia.

Slot

1-1/2"

(2) Self tapping
screws #8 x 1/2"
long for wood
& metal doors

Through-bolt
hole (2)

**Important: Latch bevel must match door
bevel and deadlocking latch must stop on
strike when door is closed**

Strike

Deadlocking latch

Hole for ribbon
cable from keypad
to controller

O-Ring

Ensure larger conduit
houses smaller
conduit with
attached O-ring

Inside of door

Lockbody
hole

Latchbolt
door prep

Pre-drilled
and/or tapped
holes 2 places

*Install conduit if exterior door is directly exposed to the
weather, if it's a hollow metal (open core) type door. It's
not required on solid core doors. If rain water enters
open web at top of door, the conduit prevents water
from inside of door entering onto controller or keypad.

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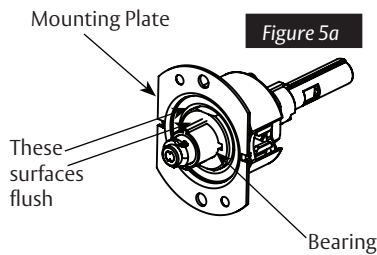and more open world

Step #5 – Install Lock Body

Lock Preset to:

- Door thickness - 1-3/4" thick - see below for other door conditions

Adjustment for different door thickness:

Lock is factory preset for 1-3/4" (44mm) doors unless specified. To adjust lock to door thickness if other than 1-3/4" (44mm):

1. Remove trim assembly from the lockbody. (See Figure 5).
2. Rotate mounting plate to adjust for proper door thickness.
   - For 2" thick door the inside face of the mounting plate should be flush with the face of the bearing. (See 5a).
   - Verify correct position from the markings on the through-bolt stud, or by measuring from inside surface of the mounting plate to the centerline of the retractor (See 5b).
3. Reassemble the outside trim assembly to the lockbody.

Trim Assembly

Figure 5

Mounting Plate

Figure 5a

These surfaces flush

Bearing

Door Thickness	Dimension A
1-3/4" (44 mm)	7/8" (22 mm)
2" (50 mm)	1" (25 mm)
2-1/4" (57 mm)	1-1/8" (29 mm)

1 3/4" thick door

2" thick door

Centerline of retractor

Figure 5b

Retractor

Dimension A
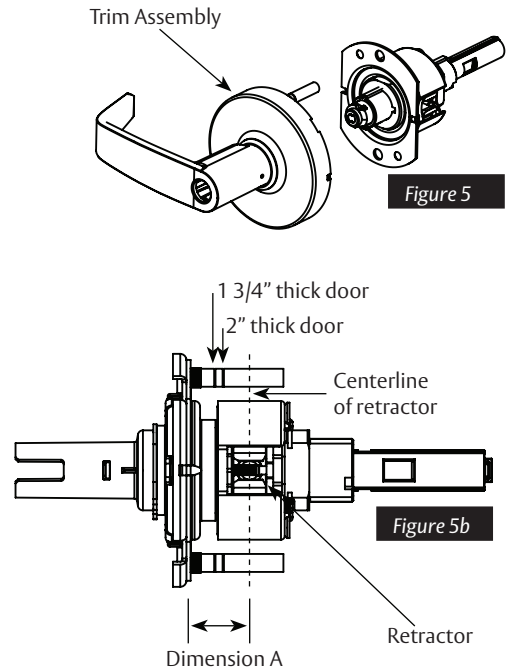
Refer to (mechanical) instruction A8286 for installation.

1. Feed wires into the lock body hole from outside of door

2. Install lock body into cross-bore hole from outside of the door (locked side)

3. Lock body must engage both the latch unit prongs and tail piece (as shown)

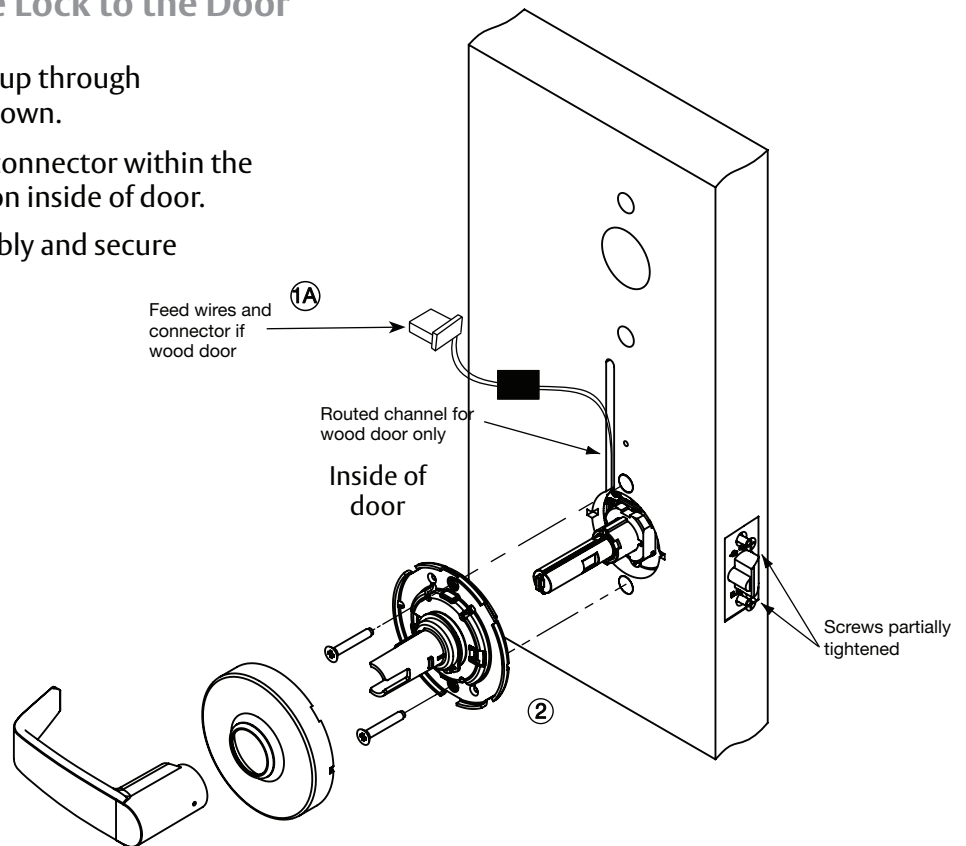Routed channel for wood door only

Inside of door

Screws partially tightened
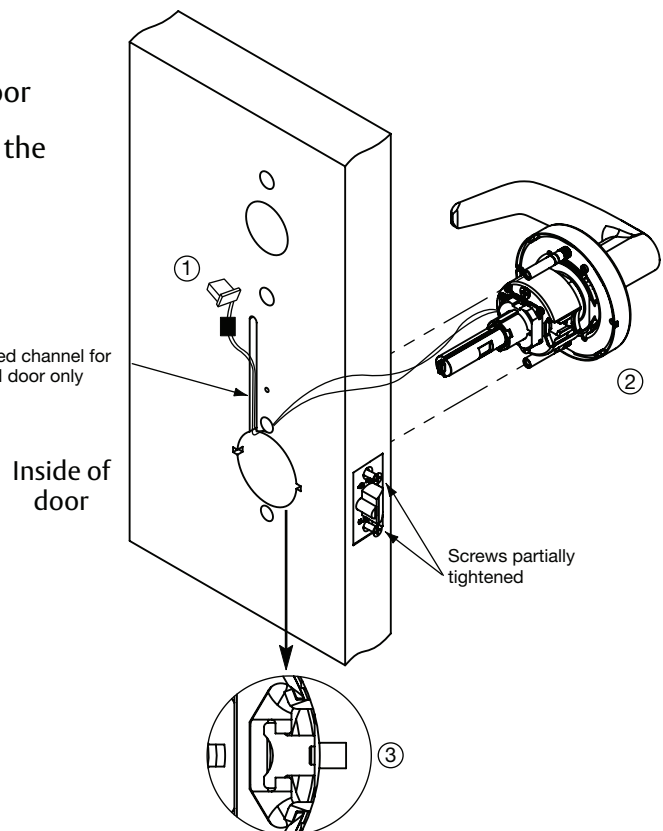
**IMPORTANT:
Door must remain open during installation. Use door stop.**

**IMPORTANT:
Lockbody must be centered in the door.**

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Step #6 – Securing the Lock to the Door

1A. If wood door, feed wires up through the routed channel as shown.

1B. If metal door, feed wire connector within the door core and out hole on inside of door.

2. Attach inside rose assembly and secure with screws shown.

Feed wires and connector if wood door

①A

Routed channel for wood door only

Inside of door

Screws partially tightened

②

## Step #7 – Install (Optional)* Weatherseal Gasket & Shroud

1. Carefully remove adhesive backing from the gasket (Fig. 7A).

2. Apply gasket to escutcheon:

   • Starting in one place, press the adhesive side of the gasket firmly against the escutcheon.

   • Work around the escutcheon, pressing the sticky side of the gasket firmly against the escutcheon edge.

   • The gasket should be aligned so that all edges of the escutcheon are covered.

3. Attach escutcheon to the door.

   Note: The 43 cylinder may be used with or without a gasket.

   *For exterior doors and supplied with Weatherization Kit (p/n 52-6084). Additional supplied shroud (not shown) is required if outside keypad escutcheon is directly exposed to weather.

Peel back

Fig. 7A

Fig. 7B

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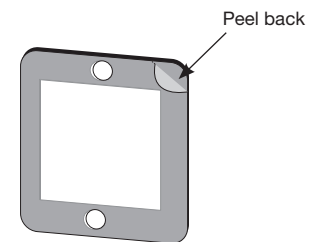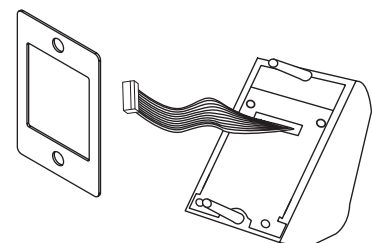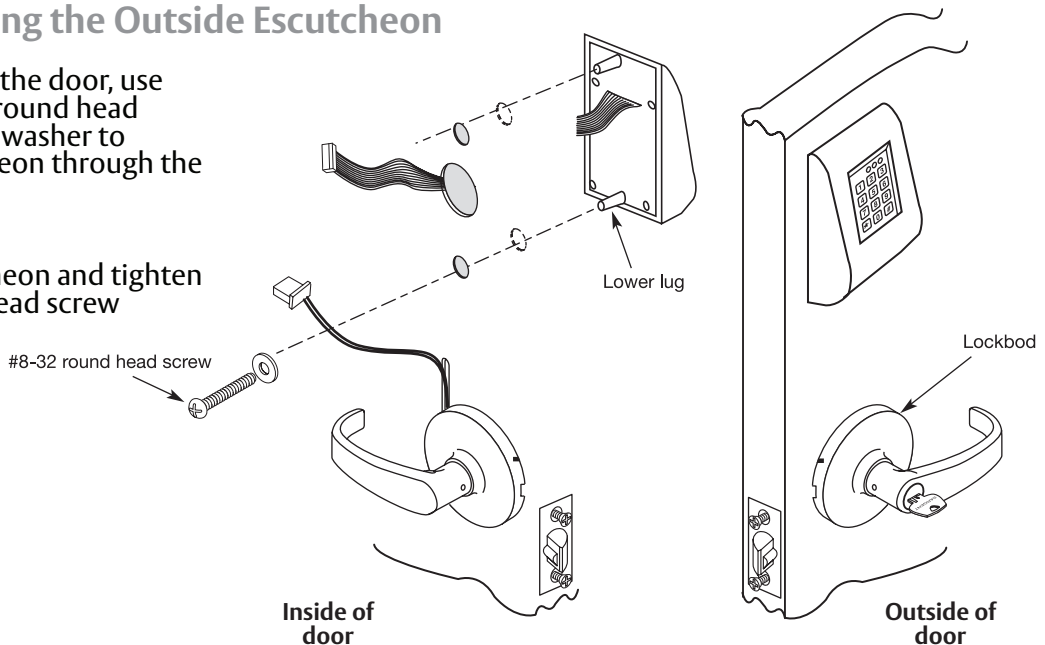
Step #8 – Installation of Outside Escutcheon

- From the outside of the door, feed keypad wires through fire stop plate and to the inside of the door. Lift plate cover if needed.

- **IMPORTANT** – Fire stop plate cover must lay flat before installing the keypad to avoid interference

Keypad wires

Fire stop plate

Inside of door
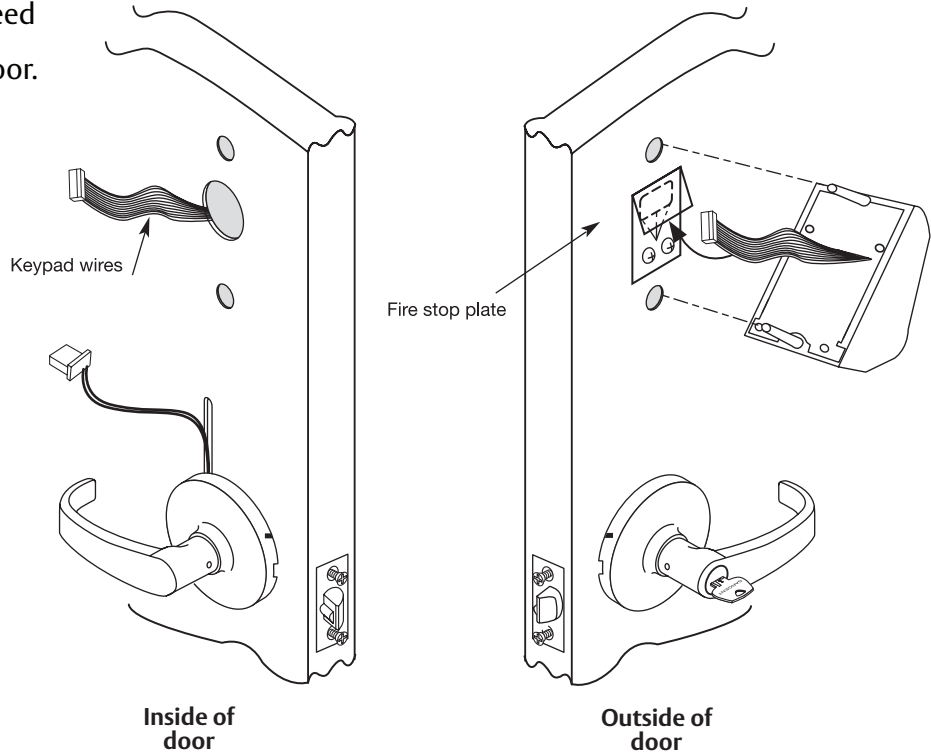
Outside of door

Step #9 – Securing the Outside Escutcheon

- From the inside of the door, use the #8-32 x 1 1/2" round head screw with the flat washer to attach the escutcheon through the lower lug

- Straighten escutcheon and tighten the #8-32 round head screw

Lower lug

Lockbod

#8-32 round head screw

Inside of door

Outside of door

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Step #10 – Installation of Inside Escutcheon

- Plug the smaller lockbody wires into the inside escutcheon. Access holes vary based on wood or metal door application.

- Plug keypad ribbon cable connector into inside escutcheon

IMPORTANT:
Both wire plug connectors go on only one way.
Do not offset the connectors. If not seated, keypad will not function properly.

Keypad harness

Lockbody Harness

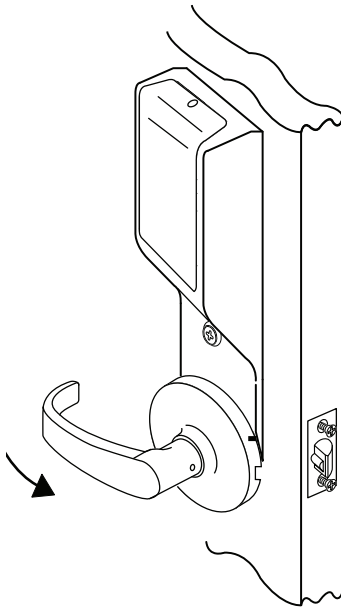Wood Door

Inside of door

Outside of door

e
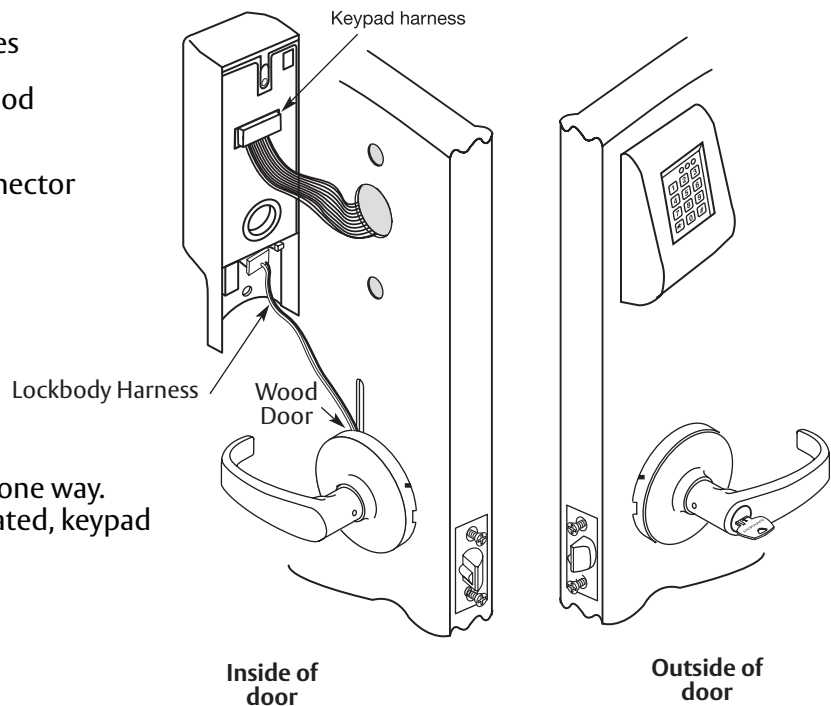
Step #11 – Securing Inside Escutcheon

- Remove black plastic battery cover with 1/8" security hex wrench
- Carefully tuck the wire into the routed groove in wood door. The remainder can fit within bottom portion of escutcheon. Make certain that wires are not pinched by obstructions in escutcheon.
- Place inside escutcheon flat against the door
- Secure inside escutcheon with one flat head screw thru interior of inside escutcheon and into post of exterior escutcheon
- Secure bottom of escutcheon with flat head screw and ferrule

#8-32 Flat head screw

Flat head screw and ferrule

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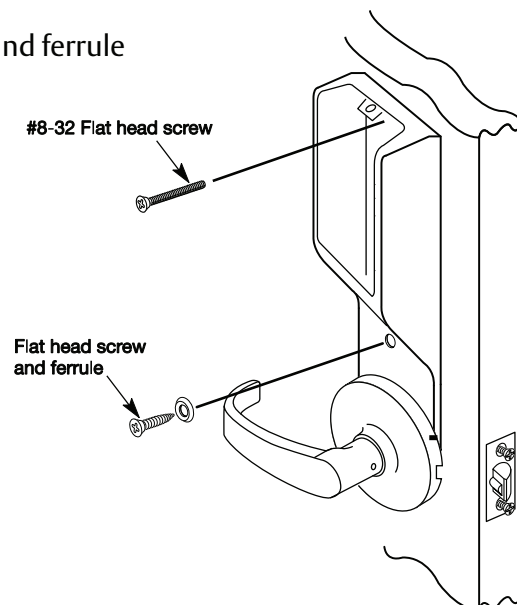
Inside of door

Step #12 – Test Lockset

- Rotate inside lever to test for latch bolt retraction

- Place key into cylinder and rotate key for latch bolt retraction

- Tighten latch bolt screws on edge of door
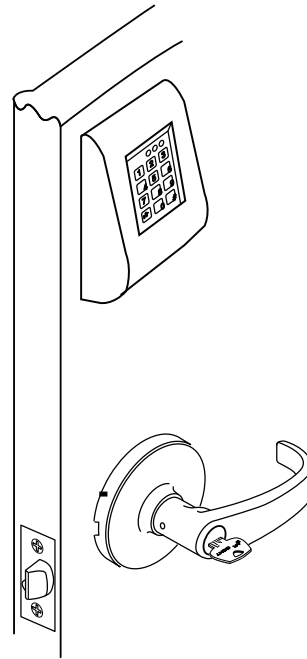
Step #13 – Battery Installation

- Place (4) C batteries into the compartment as indicated inside escutcheon
- Attach battery cover to inside escutcheon and secure with #8-32 x 3/8" security screw

    DO NOT OVERTIGHTEN

#8-32 X 3/8" Flhd security screw

Inside escutcheon

Battery cover

Inside of door

Outside of door

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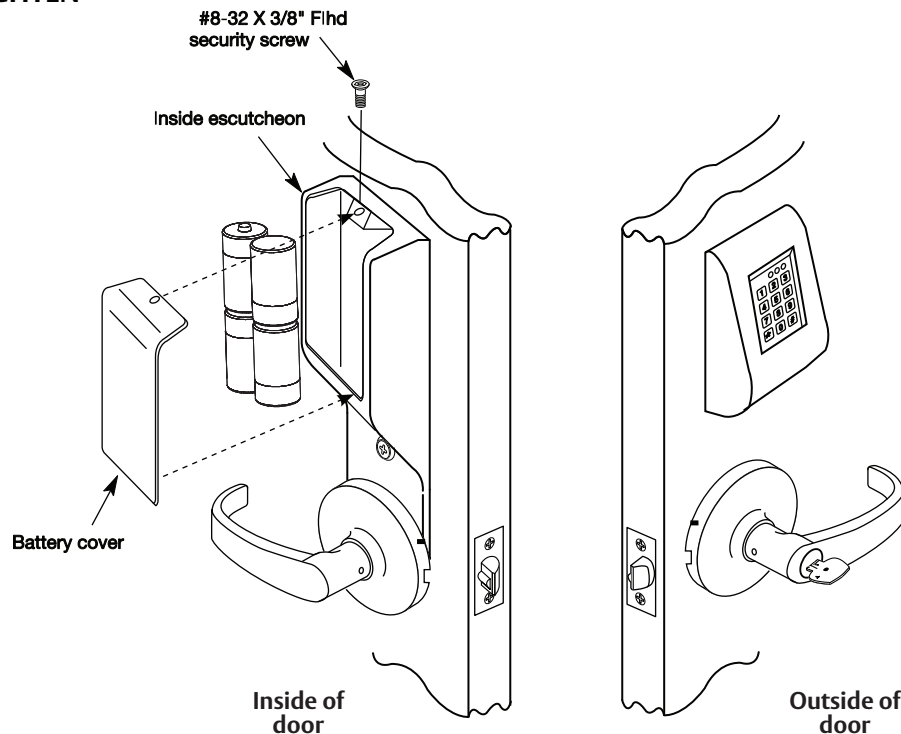
How to Remove Outside Lever Only

1. Insert key, rotate 45° clockwise and hold

2. Depress lever retainer with push pin tool (provided)

Depress lever retainer
with push pin tool

Rotate key 45
and **hold**

5 ## Programming Instructions

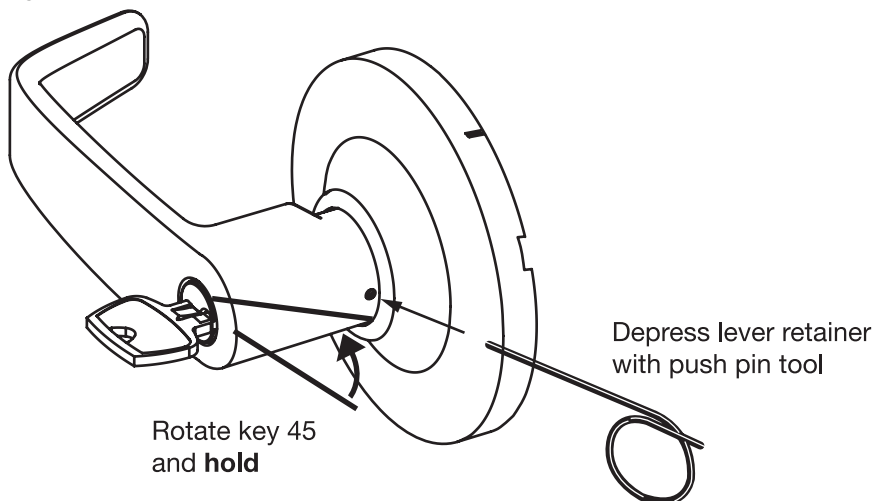The KP Keypad bored lock can support 99 users. Each user is assigned a User Number in addition to the code used for entry.
Example:

USER TYPE	USER NUMBER	USER CODE (2-6 DIGITS)
Master	01	1 2 3 4
Emergency	02	2 2 2 2 2
Supervisor	03	3 0 3 0 3 0
Standard	04-97	2 6 5
Special Factory 10 Sec. Time Preset	98 99	1 3 6 8

This Keypad Bored lock has 99 User Codes available for programming purposes.

- The Master Code is always User "01". The Master Code assigns the Emergency and Supervisory Codes. It is also used for programming and will override the deadbolt*. Users are deleted through the Master Programming Code only.

- The Emergency Code is always User "02". The Emergency Code will override the deadbolt* in the lock and has an unlock time of 10 seconds.

- The Supervisory Code is always User "03". The Supervisory Code allows temporary lockout of selected users, changes duration of unlock time, requests infrared interrogation output, and may add additional User Codes.

- The first User Code will be User "04" or higher. User numbers do not have to be used or entered sequentially.

- User codes "98" and "99" have a factory-set unlock time of ten seconds. This allows a handicapped person extra time which would not be required by other users.

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5 **Programming Instructions (Continued)**

Initial Set-Up Procedures:

The following are typical procedures** to follow when setting up your KP Series Keypad:

- If a mistake is made during any of procedures, depress the "*" several times until the yellow LED goes out.
- If no keystroke is made in a 30-sec time frame the programming up to that point will default and you will have to start over.

To Begin Programming:

The Keypad bored lock is preset at the factory with Master Code "1234". Entering "1234*" will unlock the lock allowing the lever handle to retract the latchbolt.

All of the following procedures start with 99#.

*If after the last " *" is depressed, the yellow LED does not go out, depress " *" once more.*

Change Master Code:

- 1234* (Yellow LED Begins to Blink Slowly) This example uses the Factory Default Master Code
- 50# 1# 01# New Master Code* (Yellow LED Blinks Quickly)
- New Master Code* (Yellow LED Blinks Slowly) * (Yellow LED Goes Out)

To Enter the Emergency Code: (Unlock Duration is Factory Set at 10 Sec)

- Master Code* (Yellow LED Begins to Blink Slowly)
- 50# 1# 02# Emergency Code* (Yellow LED Blinks Quickly)
- Emergency Code* (Yellow LED Blinks Slowly) * (Yellow LED Goes Out)

To Enter the Supervisory Code:

- Master Code* (Yellow LED Begins to Blink Slowly)
- 50# 1# 03# Supervisory Code* (Yellow LED Blinks Quickly)
- Supervisory Code* (Yellow LED Blinks Slowly) * (Yellow LED Goes Out)

To Enter a User Code:

- Supervisory or Master Code* (Yellow LED Begins to Blink Slowly)
- 50# 1# User Number (04-97)# User Code* (Yellow LED Blinks Quickly)
- User Code* (Yellow LED Blinks Slowly) * (Yellow LED Goes Out)

To Enter a Passage (Maintained Mode) Code:

When Passage Mode is used, the same User Code must be used to re-lock the lock.

- Supervisory or Master Code* (Yellow LED Begins to Blink Slowly)
- 50# 2# User Number (04-97)# User Code* (Yellow LED Blinks Quickly)
- User Code* (Yellow LED Blinks Slowly) * (Yellow LED Goes Out)

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5 Programming Instructions (Continued)

To Enter a One Time User Code:
- Supervisory or Master Code* (Yellow LED Begins to Blink Slowly)
- 50# 3# User Number# User Code* (Yellow LED Blinks Quickly)
- User Code* (Yellow LED Blinks Slowly) * (Yellow LED Goes Out)

All of the following procedures start with 99# (continued).
If after the last "" is depressed, the yellow LED does not go out, depress "*" once more.*

To Deactivate "Beep" With the Depression of Each Key:
- Supervisory or Master Code* (Yellow LED Begins to Blink Slowly)
- 30# 0# 0# (Yellow LED Continues to Blink Slowly)
- * (Yellow LED Blinks Quickly)
- * (No Beep on Depression and Yellow LED Blinks Slowly)
- * (No Beep on Depression and Yellow LED Goes Out)

To Reactivate "Beep" With the Depression of Each Key:
- Supervisory or Master Code* (Yellow LED Begins to Blink Slowly)
- 30# 0# 1# (Yellow LED Continues to Blink Slowly)
- * (Yellow LED Blinks Quickly)
- * (Beep on Depression and Yellow LED Blinks Slowly)
- * (Beep on Depression and Yellow LED Goes Out)

To Clear the Entire Memory:
- Master Code* (Yellow LED Begins to Blink Slowly)
- 46# 00000# 00000# (Yellow LED Continues to Blink Slowly)
- * (Yellow LED Blinks Quickly)
- * (No Beep on Depression and Yellow LED Goes Out)
- PAUSE, Yellow LED Begins to Blink Again
- * (Yellow LED Goes Out)

NOTE   **This Deletes ALL Codes, including Master, Emergency and Supervisory. The Master Code is set back to 1234, Door Number to 0001 and Unlock time to 5 Sec. If the Master Code is not known, Factory Assistance will be required to clear the memory. 1-800-810-WIRE.**

To Program Door Numbers into Keypad:
- Master Code* (Yellow LED Begins to Blink Slowly)
- 43# 0# Door Number# (must be four digits) (Yellow LED Blinks Slowly)
- * (Yellow LED Begins to Blink Quickly)
- * (Yellow LED Blink Slowly)
- * (Yellow LED Goes Out)

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⑤ **Programming Instructions (Continued)**

Chain Programming

When programming multiple User Numbers and Codes into the Keypad Exit Device, it is not necessary to leave and re-enter the programming Mode (50) for each entry. Multiple entries may be chained together and the three different types of user codes (Standard, Passage and One time) may be mixed.

The format to be used is as follows where:
"T" is the Type of user code with "1" Standard, "2" Passage and "3" One Time.
"UN_" is User Number (04-99).
"UC_" is User Code (2 to 6 digits) which correlates with user Number.

   99# Master or Supervisor Code* 50# Type# User Number a# User Code a* User Code a* T# UNb#
   UCb* UCb* T# UNc# UCc* UCc* ......T# UN_# UC_* UC_**

An example with four user codes is shown below:

Type	User Number	User Code
1	05	875
3	12	2226
2	08	5444
1	50	3367

Using Master Code 4732 and above information, the keypad exit device would be programmed as follows:
99# 4732* 50# 1# 05# 875* 875* 3# 12# 2226* 2226* 2# 08# 5444* 5444* 1# 50# 3367* 3367**

If all user codes are the same type, it is not necessary to enter the type number with each entry. The type number only has to be entered with the first user code. The format now simplifies to:

   99# Master or Supervisor Code* 50# Type# User Number a# User Code a* User Code a* UNb#
   UCb* UCb* UNc# UCc* UCc*......UN_# UC_* UC_**

An example with three user codes is shown below:

Type	User Number	User Code
1	07	77
1	15	67832
1	91	7568

Using Master Code 45988 and above information, the keypad exit device would be programmed as follows:
99# 45988* 50# 1# 07# 77* 77* 15# 67832* 67832* 91# 7568* 7568**

To chain the User Number delete procedure:
99# Master Code* User Number a#** UNb#** UNc#** ......UN_#***

Using the information from the above example:
99# 45988* 07#** 15#** 91#***

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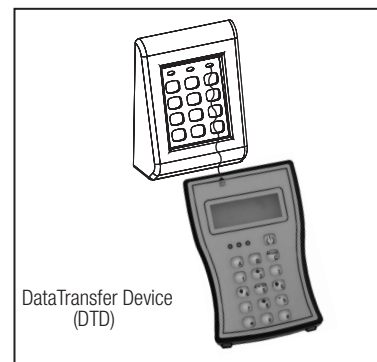and more open world

5 Programming Instructions (Continued)

All of the following procedures start with 99# (continued).
*If after the last " *" is depressed, the yellow LED does not go out, depress " *" once more.*

To Interrogate Transaction Log (to output last 15 entries):
- Supervisory or Master Code* (Yellow LED Begins to Blink Slowly)
- 70# 0# 0# (Yellow LED Blinks Slowly)
- * (Yellow LED Begins to Blink Quickly)
- Set DTD to printer mode
- Select 'Infrared Capture'
- Press Enter key on DTD
- Hold DTD between 1 to 3 inches from the KP keypad infrared LED (top right side LED on keypad). Press Enter key on DTD.
- * (Yellow LED Begins to Blink Slowly or alternately) IR LED will begin broadcasting data, and the DTD will retrieve door transaction log.

Note: Retrieving the transaction log takes approximately 20 seconds, after 20 seconds continue to next step

* (Yellow LED Goes Out)

For additional information, see "Transaction Log".

Note: Seq. # 1 is the programming request to output the entries. Sequence numbers 2-5 are the actual entries.

To Reset / Clear Transaction Log
- Master Code* (Yellow LED Begins to Blink Slowly)
- 76# 00000# 00000# (Yellow LED Blinks Slowly)
- * (Yellow LED Begins to Blink Quickly)
- * (Yellow LED Goes Out)

Transaction Log

Door Number
- 4 Digits
- Up to 9999 different doors, assigned by user

Transaction Number
- Single digit - 1-5
- Latest transaction - 1
- Oldest transaction - 5

User Number
- Three digits - 001 through 099
- User numbers assigned at time of programming

Hold Data Transfer Device (DTD) up to the (top right side) infrared LED as shown. DTD can be used to download information from the keypad.

DataTransfer Device (DTD)

Door # 5666

Door Number

Seq	User	Trans
1	001	003
2	003	005
3	003	005
4	020	005
5	003	005

Transaction Number

User Number

Transaction Type*

*Transaction Types
003 = Log transaction started
005 = 5 second unlock time**

Transaction Types
- 003 = Log transaction started
- 005 = 5 second unlock time*

Note: The Unlock Time is Adjustable for Momentary Operation.
A (5)-second unlock time is recommended to extend battery life.

Once the unlock time is entered, it is the same for ALL users except 02, 98 and 99 which are factory set for 10 seconds.

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5 **Programming Instructions (Continued)**

To Delete a User Number:

- Master Code* (Yellow LED Begins to Blink Slowly)
- User Number# (Yellow LED Blinks Slowly)
- * (Yellow LED Begins to Blink Quickly)
- * (Yellow LED Blinks Slowly)
- * (Yellow LED Goes Out)

To Disable / Enable a User Number:

- Supervisory or Master Code* (Yellow LED Begins to Blink Slowly)
- 56# 0# = Enable, 1# = Disable User Number# (04-99) (Yellow LED Blinks Slowly)
- * (Yellow LED Begins to Blink Quickly)
- * (Yellow LED Blinks Slowly)
- * (Yellow LED Goes Out)

All of the following procedures start with 99# (continued).
If after the last "" is depressed, the yellow LED does not go out, depress "*" once more.*

To Set Unlock Time:

- Master Code* (Yellow LED Begins to Blink Slowly)
- 85# Time Duration# (01-99 Sec) 0# (Yellow LED Blinks Slowly)
- * (Yellow LED Begins to Blink Quickly)
- * (Yellow LED Blinks Slowly)
- * (Yellow LED Goes Out)

Remote unlocking
connector placement

Inside Escutcheon

Optional Equipment

- Data Transfer Device (DTD) - used to download the user and transaction type.
- Remote Unlocking - 52-2071 (has a 2-pin connector with 2 wires). When wired to a remote normally open momentary switch, a momentary switch closure is used used for remote unlocking of keypad 10X Line lock.

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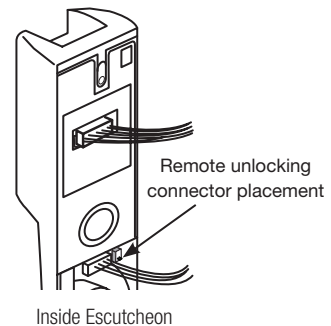
6   Troubleshooting Instructions

Note: The following tests are used to check basic functionality of the keypad and inside controller.

Power On Self Test (POST) for new KP controllers only (released after 1/2021)

- Immediately after installing the batteries, verify the following keypad sequence:
- Green LED flashes quickly - (5) times a second
- Yellow LED flashes quickly - (5) times a second
- Beeps 3 times quickly - (3) times a second

The following tests are for existing Legacy and New KP controllers and take approximately 1 to 2 seconds each:

- Enter '7890#123456*' - each key beeps when pressed (if key beep is activated)
- Verify the following keypad sequence:
  Green LED flash, Yellow LED flash, 3 beeps

If you have the optional DTD
- Set DTD to printer mode, press (center) enter key on DTD once
- Align DTD Infrared port 1 – 3" from the top right side keypad Infrared transmitting LED
- Press enter key on DTD again just before the * key in the following step
- Enter '7890#123456*' - each key beeps when pressed (if key beep is activated)
- Verify the following on keypad/DTD sequence:
  Green LED flash, Yellow LED flash, 3 quick beeps, "IR OK" is displayed on DTD

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SARGENT Manufacturing
100 Sargent Drive
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