DOOR PREP

Note: For retrofit applications, existing trim and exit device must be removed from door.

X — Line X-X corresponds to line X-X on device instructions/template

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11/16" (.688) [17mm]
1-3/8" (1.375) [35mm]

Four corner holes align with exit device mounting holes on inside of door.

∅1" (1.375) [35mm]

3-1/2" (3.500) [89mm]

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3-1/2" (3.500) [89mm]

∅7/16" (.438) [11mm] 5X

Door Thickness 1-3/8" (1.375) [35mm]

X
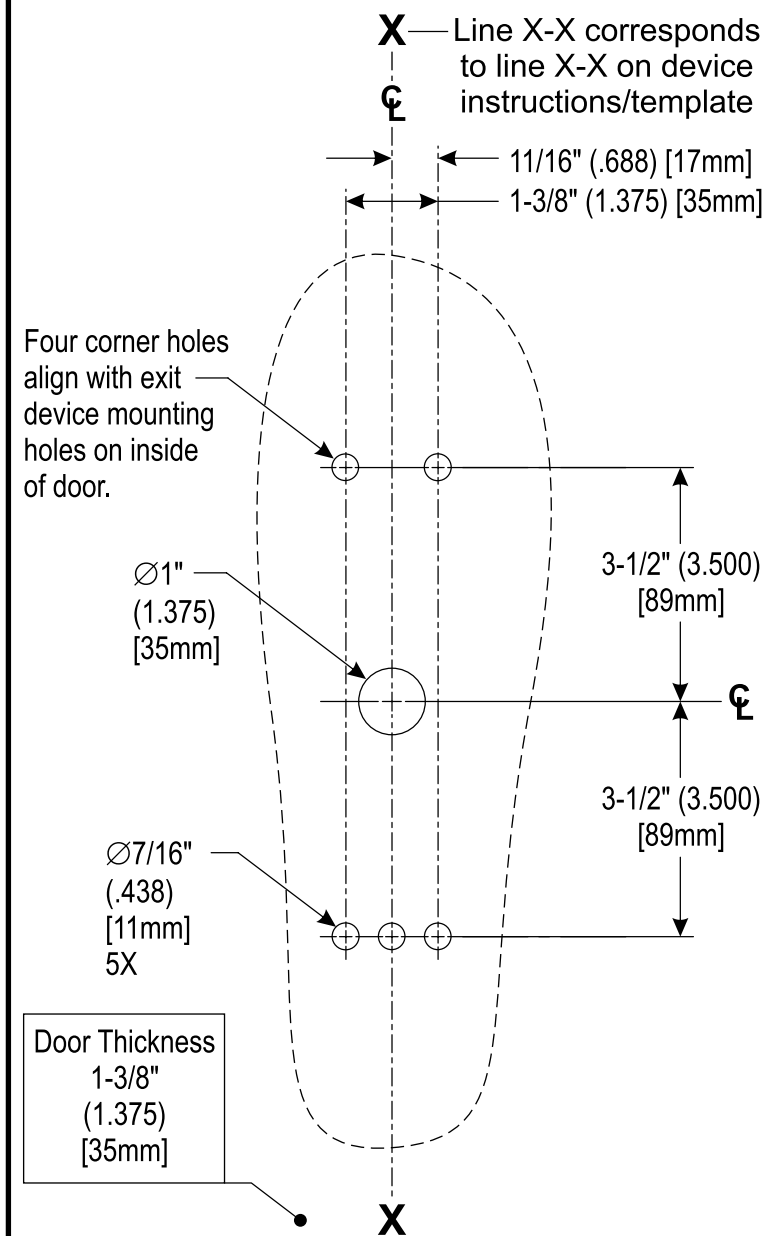
BLOCKING RING TABLE

Mortise Cylinder Length	Blocking Ring (Schlage P/N: XXX=finish)
1-1/4"	1/8" (36-079-012-XXX)
1-3/8"	1/4" (36-079-025-XXX)
1-1/2"	3/8" (36-079-037-XXX)
1-5/8"	1/2" (36-079-050-XXX)

TEST TRIM

1. Depress exit device pushpad.
   > Result: Latch(es) should retract.
2. Turn cylinder key counterclockwise until key stops.
3. Press trim lever down.
   > Result: Latch(es) should <u>not</u> retract.
4. Turn cylinder key clockwise until key stops.
   > Note: For trim with ATK option, green LED on trim flashes when key is turned.
5. Press trim lever down and release.
   > Result: Latch(es) should retract.
6. Turn cylinder key counterclockwise until key stops.
7. If trim has keypad, enter factory default access code: **1 3 5 7 9**. Green LED on trim flashes.
8. While green LED is flashing, press trim lever down and release.
   > Result: Latch(es) should retract.
9. After green LED stops flashing, press trim lever down and release.
   > Result: Latch(es) should <u>not</u> retract.

TROUBLESHOOTING

If cylinder key does not work properly, check that:
(1) cylinder is installed in correct position.
(2) correct cylinder cam is installed.
(3) cylinder cam is installed in correct position. If keypad does not work properly, check that batteries are installed properly.

OPERATIONAL TESTING

OPERATIONAL TEST - CM993 SERIES LOCKS:
> P.

OPERATIONAL TEST - CL993 SERIES LOCKS:
> P.

SCHLAGE®
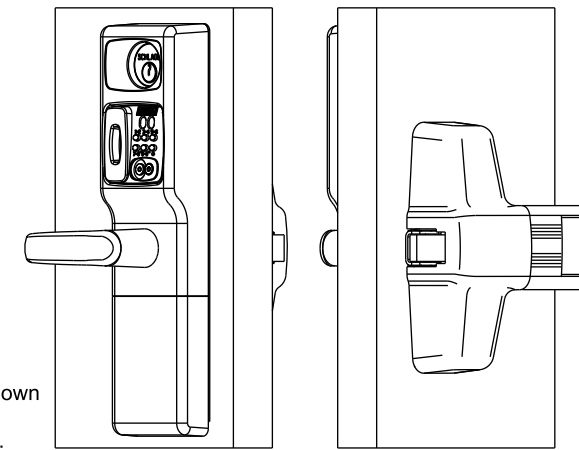
COMPUTER MANAGED & CAMPUS LOCK SYSTEMS
Programmable Access Control Trim
CM993 & CL993 SERIES

Lock is shown with PXK credential.

INSTALLATION INSTRUCTIONS

INTRODUCTION

This manual covers the complete hardware installation of any model in the CM993 and CL993 Series line of trim.

The CM993 and CL993 are compatible with, but not limited to the following Von Duprin exit devices: 98/99 Rim, 98/9927, 98/9947 WDC, 98/9947, 98/9948, and 98/9957.

NOTES:
✐ Illustration on pages 2 and 3 shows a LHR installation, but yours might be different.
✐ Key cylinder to be 1-1/8" or longer with Schlage B502-191 or Schlage B502-948 or equivalent cam.
✐ Do not overtighten fasteners.
✐ For manual programming instructions and information on using access cards and electronic keys, see the programming guide.
✐ For computer programming instructions, see the documentation and help files included with the computer software.

NON-SUPPLIED TOOLS & MATERIALS NEEDED

☞ Philips head screwdriver set
☞ Power Drill with 3/8" chuck
☞ Drill bit set (up to 1")
☞ 2-1/8" Hole saw
☞ Allen wrench set
☞ Square (90 degrees)
☞ Threadlocker (Loctite 242 recommended)
☞ Tape Measure
☞ Pencil
☞ Center Punch
☞ Hammer
☞ Chisel
☞ Level
☞ Masking tape

See Back Cover for:
- Door Prep
- Blocking Ring Chart
- Test Procedure
- Troubleshooting

④

60993-F

After door has been prepared, refer to illustration on right and assemble lock components onto door in following order:

1 - Install Key Cylinder (**A**) (refer to **DETAIL D-A**):
  - If **A** is longer than 1-1/8", insert **B** into **C** (refer to **BLOCKING RING TABLE** on page 4).
  - Insert **A** into **C**.
  - Slide **D** over **A**.
  - Using **E**, screw **F** onto **A** until tight.
  - Line up nearest notch on **F** with tab on **D**.
  - Bend tab on **D** into notch of **F**.
2 - If changing the Handing is necessary, refer to **DETAIL D-A** and do the following:
  - Using a 5/32" hex wrench, remove **G**.
  - Remove **H**, rotate 180 degrees, slide back on shaft.
  - Apply threadlocker to **G**, reinstall **G**.
3 - Preliminary Test of Trim (refer to **DETAIL D-A**):
  - Insert key into **A** and turn CW (this engages **A**).
  - Rotate **H** down.
      RESULT: **I** must rotate as **H** is rotated.
4 - Install Stop Screw (**J**).
  - With **A** engaged (see above), rotate **H** down & hold.
  - Install **J** into proper hole (**LHR** or **RHR**).
      RESULT: **H** should not rotate up from horiz. pos.
5 - Refer to **DETAIL D-B** and verify **K** is installed in **L**.
  - If **K** is missing, install **K** (supplied).
6 - Place **O** on door, secure with **T**.
7 - Insert **M** into **O** (refer to **DETAIL D-C** & **DETAIL D-D**).
  - **DETAIL D-C**:
      > **LHR** - end with notches (**N**) towards **C**.
      > **RHR** - end with notches (**N**) towards **O**.
  - **DETAIL D-D**:
      > Longest step (**P**) on **M** towards **Q**.
8 - Install Trim (**C**):
  - Install **R** into **C**.
  - Apply sticky side of **S** to **C**.
  - Align **M** with **I** and place **C** on door.
  - Install each **T** into each **R**.
  - If they were removed, reinstall 2 screws (**U**).
9 - Observe polarity and install 4 batteries (**V**).
10 - Place **W** and **X** against **C**, secure with **Y** and **Z**.

INSTALLATION OF HARDWARE COMPLETE

See Page 4 for TESTING, TROUBLESHOOTING, and OPERATIONAL TESTING - CM993 AND CL993.

DETAIL D-D

DETAIL D-B
"Night Latch" function

DETAIL D-A

INSIDE OF DOOR

LHR RHR

LHR **DETAIL D-C** **RHR**
To Trim (**C**)
To Exit Device (**O**)

2

3