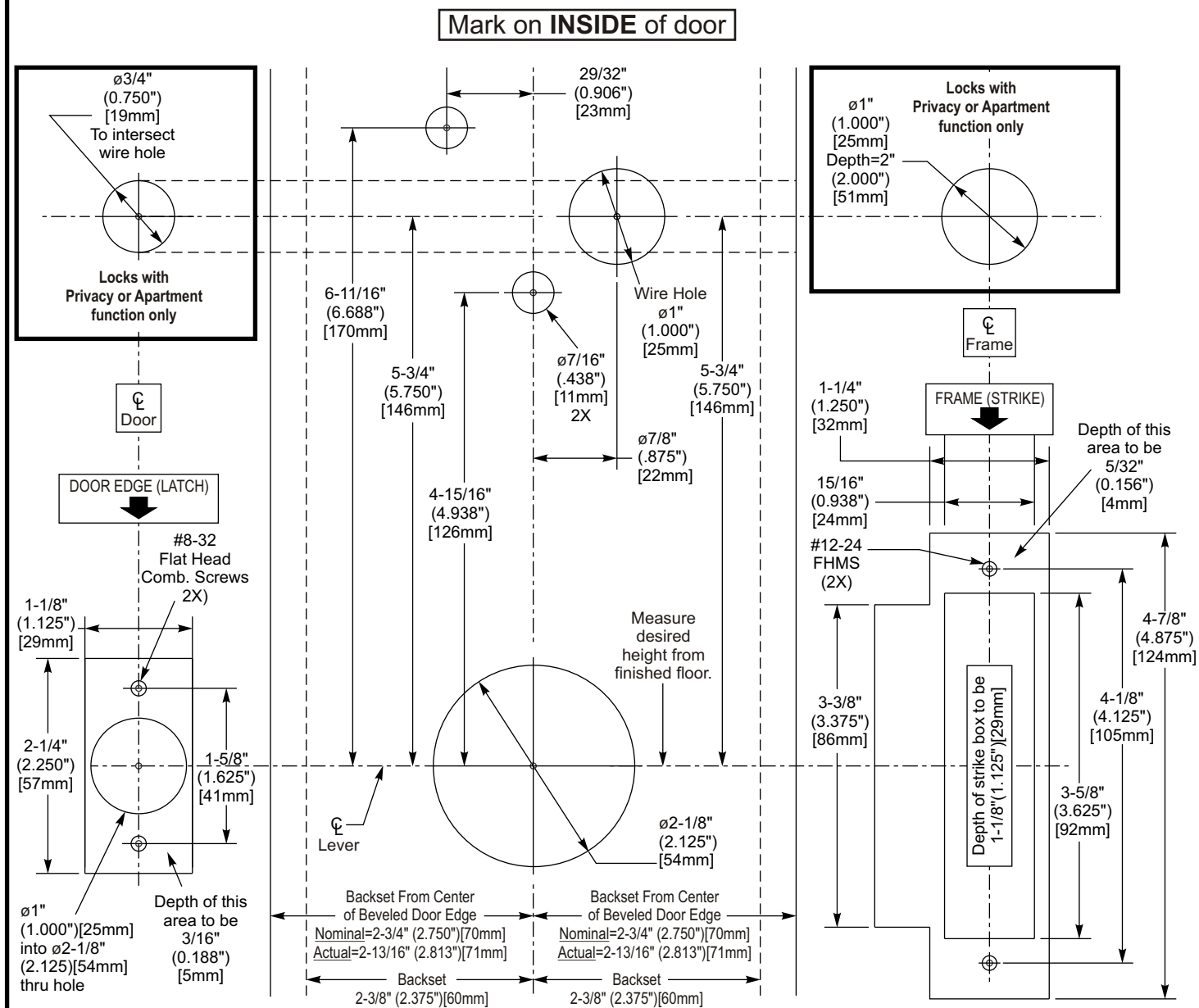


## DOOR & FRAME PREP



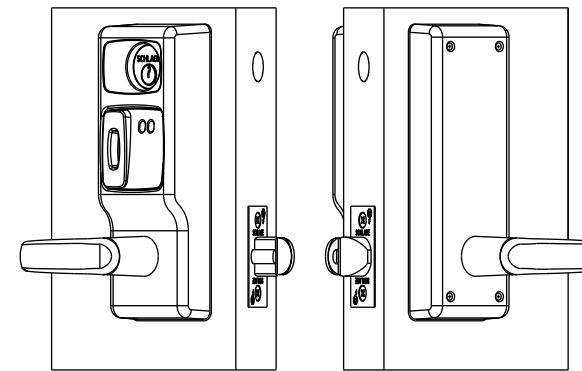
## DIP SWITCH SETTINGS

1	2	3	4	5	6	7	8	9	10	11	12	
off	off	off	off									lock address: 01 (RSI, Interflex, VIP)
on	off	off	off									lock address: 02 (RSI, Interflex, VIP)
off	on	off	off									lock address: 03 (RSI, Interflex, VIP)
on	on	off	off									lock address: 04 (RSI, Interflex, VIP)
off	off	on	off									lock address: 05 (RSI, Interflex)
on	off	on	off									lock address: 06 (RSI, Interflex)
off	on	on	off									lock address: 07 (RSI, Interflex)
on	on	on	off									lock address: 08 (RSI, Interflex)
off	off	off	on									lock address: 09 (RSI, Interflex)
on	off	off	on									lock address: 10 (RSI, Interflex)
off	on	off	on									lock address: 11 (RSI, Interflex)
on	on	off	on									lock address: 12 (RSI, Interflex)
off	off	on	on									lock address: 13 (RSI, Interflex)
on	off	on	on									lock address: 14 (RSI, Interflex)
off	on	on	on									lock address: 15 (RSI, Interflex)
on	on	on	on									lock address: 16 (RSI, Interflex)

1	2	3	4	5	6	7	8	9	10	11	12	
				off								fail secure (FSE, as ordered)
				on								fail safe (FSA, as ordered)
					off							magnetic reader (MG)
					on							proximity reader (PX)
						off	off					* VIP protocol
						on	off					* RSI protocol
						off	on					* Interflex protocol
								off				Interflex protocol baud rate: 19200
								on				Interflex protocol baud rate: 9600
									off			Reserved, not currently used.
										off		

\* **VIP Protocol:** For use with PIB or SRCNX  
 \* **RSI Protocol:** For use with RS485 connection to partner panels or bright blue.  
 \* **InterFlex Protocol:** For use with InterFlex.

# SCHLAGE



## VIP5100 CYLINDRICAL SERIES (Hardwired)



**Schlage Lock Company**  
 575 Birch Street  
 Forestville, CT 06010  
 technical support: 866-322-1237  
 fax: 860-584-2136  
 web: <http://www.schlage.com>

## INSTALLATION INSTRUCTIONS

### INTRODUCTION:

This manual covers the complete hardware installation of the VIP5100. The VIP5100 series lock is a microprocessor controlled, electromechanical locking system. It is an open architecture product designed to interface with 3rd party panels encompassing all the features of the lock, reader, door status and egress (REX/request to exit) indication in one fire-rated piece of hardware. The 5100 employs a heavy-duty mechanical design tested and complying with ANSI/BHMA grade 1 standards for performance and reliability. Only four wires are required to the door - two for power and two for communications.

Two credential types are available, prox (PX) and mag stripe (MG). The VIP5100 is powered by 12 or 24 volts DC and may be ordered as FSA (fail safe) or FSE (fail secure). This cannot be changed in the field.

Operationally, the outside lever is normally locked and the inside lever always retracts the bolt to allow egress. Electronic access control is achieved by entering a valid "Access Credential" (magnetic stripe card or Prox fob or card).

### CONNECTION TO PANELS:

Connect to panels using RS485 if panel manufacturer allows a direct VIP connection. If not, a PIB (Panel Interface Board) must be used to wire as separate access control components.

### NOTES:

- Illustration on pages 2 and 3 shows a LHR installation, but yours might be different.
- Key cylinder to be 1-1/8" [29mm] or longer with Schlage B502-191 or Schlage B502-948 or equivalent cam. If cylinder key does not work properly, check that cylinder and appropriate cylinder cam are installed in correct position.
- The two data wires from panel (Data-A & Data-B) must be shielded twisted pair.
- Power from panel = 1.0A@12VDC or 0.5A@24VDC
- 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.
- Do not overtighten fasteners.

### 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 w/mandrel
- Allen wrench set
- Square (90 degrees)
- Loctite 242 (or equivalent)
- Tape Measure
- Pencil
- Center Punch
- Hammer
- Chisel
- Level
- Masking tape

See Back Cover for:  
 - Door & Frame Prep  
 - Dip Switch Settings

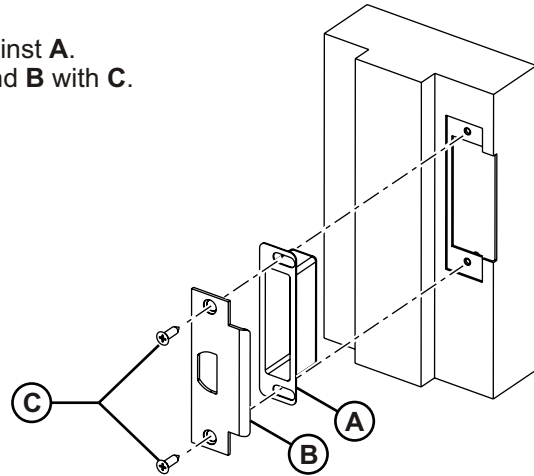
### BLOCKING RING TABLE

Key Cylinder Length	Blocking Ring (Schlage P/N: XXX=finish)
1-1/4" [32mm]	1/8" [3mm] (36-079-012-XXX)
1-3/8" [35mm]	1/4" [6mm] (36-079-025-XXX)
1-1/2" [38mm]	3/8" [10mm] (36-079-037-XXX)
1-5/8" [41mm]	1/2" [13mm] (36-079-050-XXX)

This device complies with part 15 of FCC rules. Operation is subject to following two conditions:  
 (1) This device may not cause harmful interference.  
 (2) This device must accept any interference received, including any interference that may cause undesired operation. Changes or modifications not expressly approved by party responsible for compliance could void user's authority to operate equipment.

After door & frame have been prepared, refer to illustration below and install strike components into door frame in following order :

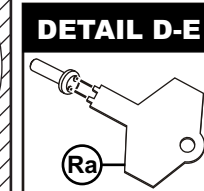
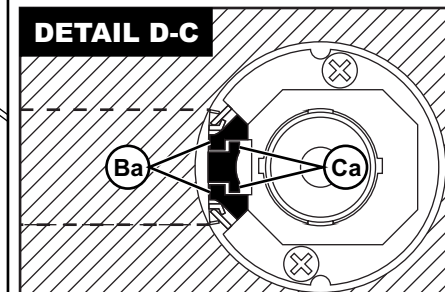
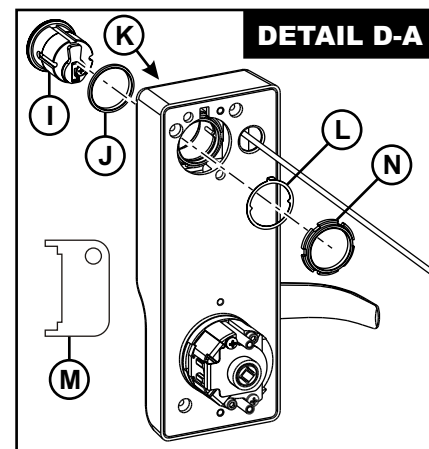
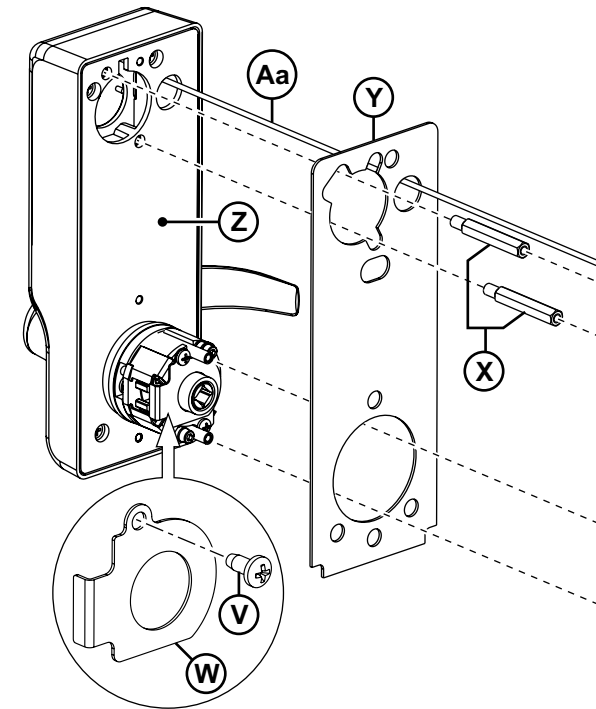
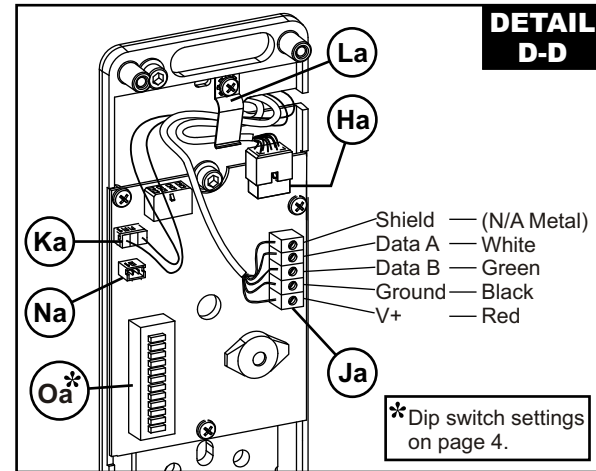
- 1 - Insert **A**.
- 2 - Place **B** against **A**.
- 3 - Secure **A** and **B** with **C**.



After strike components have been installed into door frame, refer to illustration on right and assemble lock components onto door in following order :

- 1 - Insert **D** (beveled side \* towards **B**), secure with **E**.
- 2 - Install Door Status Monitor (DSM):
  - > Insert **F** into 1"[25mm] dia. hole in frame.
  - > Thread connector (**G**) through hole in door edge and out through **wire hole**.
  - > Press **H** into 3/4"[19mm] hole in door edge.
- 3 - Install Key Cylinder (**I**) (refer to **DETAIL D-A**):
  - > If **I** is longer than 1-1/8"[29mm], slide **J** over **I** (refer to **BLOCKING RING TABLE** on page 1).
  - > Insert **I** into **K**.
  - > Slide **L** over **I**.
  - > Using **M**, screw **N** onto **I** until tight.
  - > Line up nearest notch on **N** with tab on **L**.
  - > Bend tab on **L** into notch of **N**.
- 4 - If changing the Handing, (refer to **DETAIL D-B**):
  - > Remove: **O**, **P**, **Q**, **R** (use 5/32"[4mm] hex wrench), and **S**.
  - > Rotate **S** 180 degrees, slide back onto shaft.
  - > Apply threadlocker to **R** and reinstall.
  - > Verify that dot (**T**) is at bottom.
  - > Insert round end of **Q** into **U**.
  - > Reinstall **P** so that jaws will face **D**.
  - > Reinstall **O**.
  - > Inside escutcheon - repeat with **R** and **S** as above.
- 5 - Verify that key cylinder is functional.
- 6 - Mount Outside Escutcheon (**Z**):
  - > If installed, remove **V** and **W**.
  - > Install **X**.
  - > Apply sticky side of **Y** to **Z** (thread **Aa** thru hole in **Y**).
  - > Doors thinner than 1-3/4" [44mm], use **Opt. Spacer A**.
  - > Thread **Aa** thru **wire hole** in door.
  - > Press **Z** to outside of door.
  - > Refer to **DETAIL D-C**, and verify **Ba** engages with **Ca**.
  - > Install **W** and **V**.

CONTINUED ON PAGE 3...



...CONTINUED FROM PAGE 2

- 7 - Install Inside Baseplate Assembly (**Da**):
  - > Doors thinner than 1-3/4"[44mm], use **Optional Spacer B**.
  - > Press **Da** to inside of door, secure with **Ea** & **Fa**.
  - > Insert **Ga** into **U** (beveled corners towards door).
- 8 - Making connections to the Baseplate Assembly (**Da**):
 

**IMPORTANT:** Power to be off while making connections.

  - > Refer to **DETAIL D-D**, and plug **Aa** into **Ha**.
  - > Connect the 4 wires on **la** to **Ja** (connect Ground first).

**NOTE:** Insulate shield wire from parts with tape or tubing.

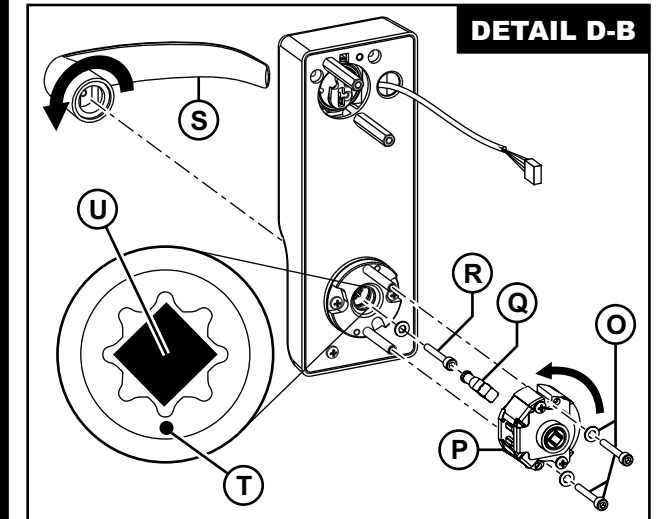
  - > Connect **G** to **Ka**.

**NOTE:** Route **Aa**, **la**, and **G** under **La** as in illustration.

  - > Connect **Ma** to **Na** (use care not to pinch wires).
  - > Set dipswitch (**Oa**). Settings on page 4.
- 9 - Install Inside Escutcheon.
  - > Place **Pa** over **Da** (verify **Ga** engages lever cam).
  - > Secure **Pa** with **Qa**.

**NOTE:** Refer to **DETAIL D-E** if **Qa** are spanner head screws (use tool **Ra**).

INSTALLATION OF HARDWARE COMPLETE



**Wire race.** Preferably drilled at factory. Diameter of hole:  $\phi 3/8"$  (0.375)[10mm] or  $\phi 1/2"$  (0.500)[13mm]. From hinged edge of door into wire hole. Install electric hinge or door cord and run panel wires (**la**) to inside baseplate assembly (**Da**). One of two methods is shown. Either method requires special drill and jig.

