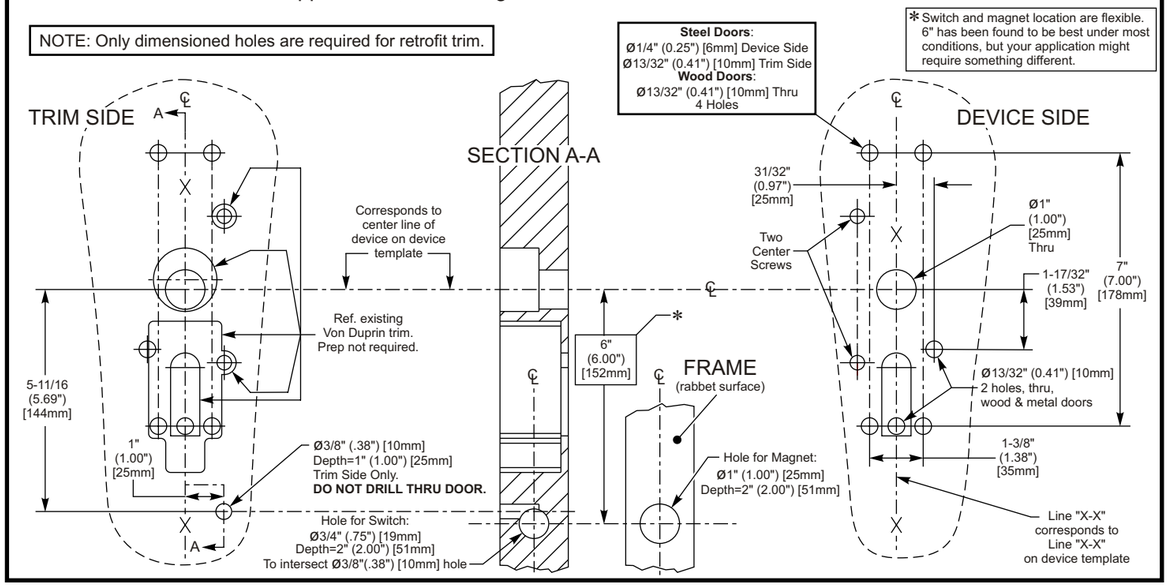
DOOR & FRAME PREP (LHR prep is shown)

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



TEST TRIM

1. Depress exit device pushpad.
   > Result: Latch(es) should retract.
2. Turn cylinder key CCW until key stops.
3. Press lever down.
   > Result: Latch should not retract.
4. Turn cylinder key CW until key stops.
   > Result: For trim with ATK option, green LED on trim flashes when key is turned.
5. Press lever down & release.
   > Result: Latch should retract.
6. Turn cylinder key CCW until key stops.

The following can be performed using a valid credential only after the VIP993 has been connected to a fully installed and configured panel:

7. Present valid credential.
   > Result: Green LED on trim flashes.
8. While green LED is flashing, press lever down & release.
   > Result: Latch should retract.
9. After green LED stops flashing, press lever down & release.
   > Result: Latch should not retract.

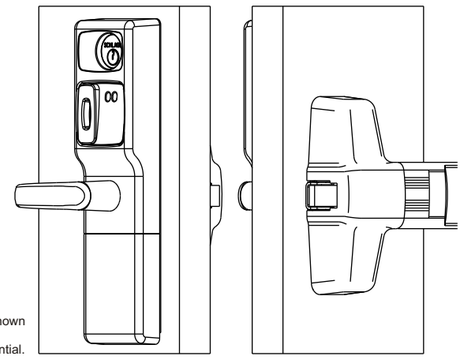
DIP SWITCH SETTINGS

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)
				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		
											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®

VIP993 SERIES EXIT TRIM
(Hardwired)



Lock is shown with PX credential.

Ingersoll Rand
Security Technologies

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 VIP993 Series line of open architecture trim.

The VIP993 is compatible with Von Duprin exit devices: 98/99, 9827/9927, 9847/9947, 9848/9948, and 9857/9957.

Operationally, the outside lever is normally locked and the exit device allows free egress. Access is achieved by presenting a valid credential.

Two credential types are available, prox (PX) and mag stripe (MG). The VIP 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.

The VIP993 series lock is a microprocessor controlled, electro-mechanical locking system which bolts on to new or existing Von Duprin 98 & 99 rim and vertical rod exit devices. It is an open architecture product designed to interface with 3rd party access control panels encompassing all the features of the lock, reader, door status and egress (rex/request to exit) indication in one piece of hardware. Only four wires are required to the door - two for power and two for communications. For door status indication, a door switch (included) must be installed. For REX (Request to EXit), the Von Duprin exit device must be equipped with the exit indication switch (order a RX-LC98/99 exit device or Von Duprin P/N S1-LC for an aftermarket application) and a pair of wires (included) must be run from the switch to the VIP993. The RTA (Request To Access) option provides indication at the panel if the mechanical key is used.

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.
- Do not overtighten fasteners.
- The tab on the spindle, which engages the exit device latch head, is sized for optimal performance in most installations. Older exit devices may have cams which are smaller and do not allow the spindle to fit. In these cases, tab may be filed to fit cam. Don't over-file or full bolt retraction will be lost.

NON-SUPPLIED TOOLS & MATERIALS NEEDED:

- Philips head screwdriver set
- Power Drill with 3/8"[10mm] chuck
- Drill bit set (up to 1"[25mm])
- 2-1/8"[54mm] Hole saw
- 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
- Test Procedure
- 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)

61997-F 5/2008

After door & frame preparation, refer to illustration on right & assemble lock components onto door & frame in following order:

1 - To install Key Cylinder (**A**) (refer to **DETAIL D-A**):
- If **A** is longer than 1-1/8"[29mm], 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"[4mm] 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 - To install Stop Screw (**J**) (refer to **DETAIL D-A**):
- 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 missing, install **K** (supplied).

6 - Refer to **DETAIL D-C**, **D-D**, & **D-E**, feed **N** & **X** thru **M**.

7 - Feed **N** & **X** thru hole in door.

6 - Place **M** on door, secure with **P**.

7 - Insert **Q** into **M** (refer to **DETAIL D-F** & **D-G**).
- **DETAIL D-F**:
  - > **RHR** - end with notches towards **M**.
  - > **LHR** - end with notches towards **C**.
- **DETAIL D-G**:
  - > Longest step (**S**) on **Q** towards **T**.

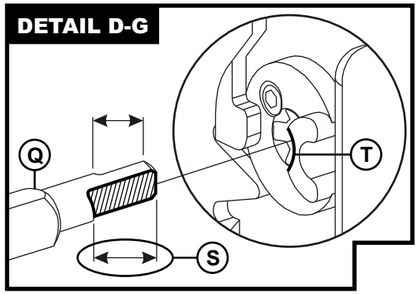
8 - To install Trim (**C**):
- Apply sticky side of **O** to **C**.
- Install **R** into **C**.
- Feed **N** & **X** through hole in **C**.
- Place **C** on door (**Q** gets inserted into **I**).
- Install each **S** into each **R**.

9 - To install DSM (**V**):
- Feed wires (**U**) through door as in illustration.
- Press **V** into hole in edge of door.
- Press **W** into corresponding hole in frame.

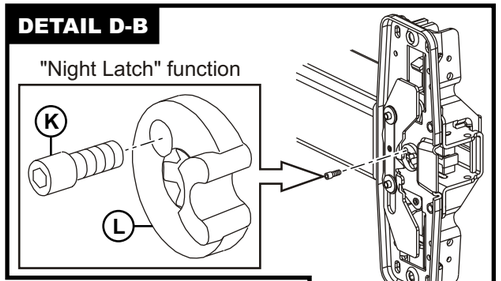
10 - Refer to **DETAIL D-H** and make wire connections.

CONTINUED ON PAGE 3...

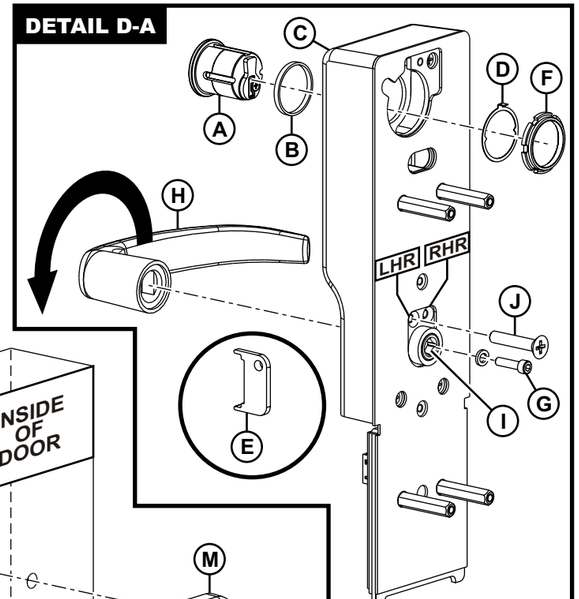
DETAIL D-G



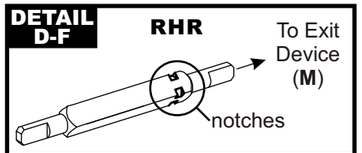
DETAIL D-B



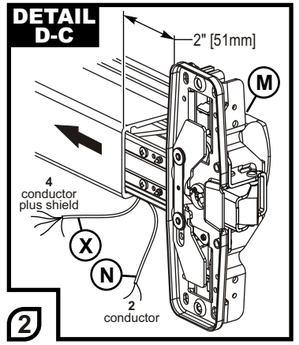
DETAIL D-A



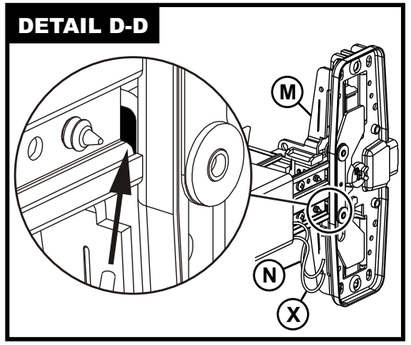
DETAIL D-F



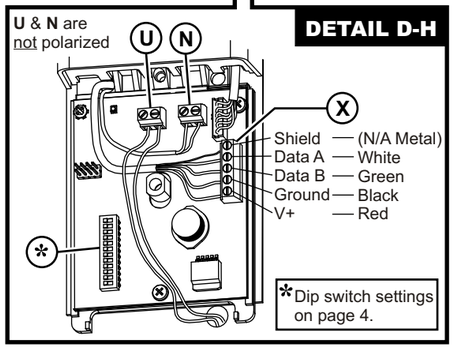
DETAIL D-C



DETAIL D-D



DETAIL D-H



...CONTINUED FROM PAGE 2

11 - **REX switch connection**: Inside of **M**, connect switch-**S1** black and white wires to blue & yellow wires (polarity is unnecessary).
NOTE: If **S1** is not used, see info supplied with panel to set up door zone without a REX/legal egress input to avoid a fault condition.
12 - Place **Y** & **Z** against **C**, secure with **Aa*** & **Ba**.
* Disregard washer **Aa** if it was not included in original installation.
INSTALLATION OF HARDWARE COMPLETE.

DETAIL D-E