Installation Instructions for V Series 34HV – 35HV Locksets

Overview

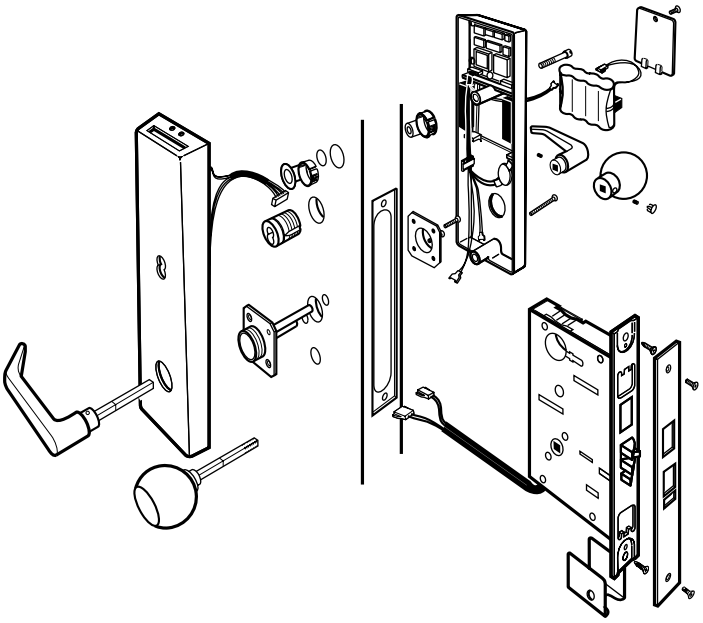

Figure 1

1 Mark centerlines

Note 1: *If the door is a fabricated hollow metal door, determine whether it is properly reinforced to support the lock. If the door reinforcement is not adequate, consult the door manufacturer for information on proper reinforcement.*

Note 2: *The suggested height from the floor to the centerline of the knob/lever is 38".*

1 Mark the horizontal centerline of the lock on both sides of the door and on the door's edge.

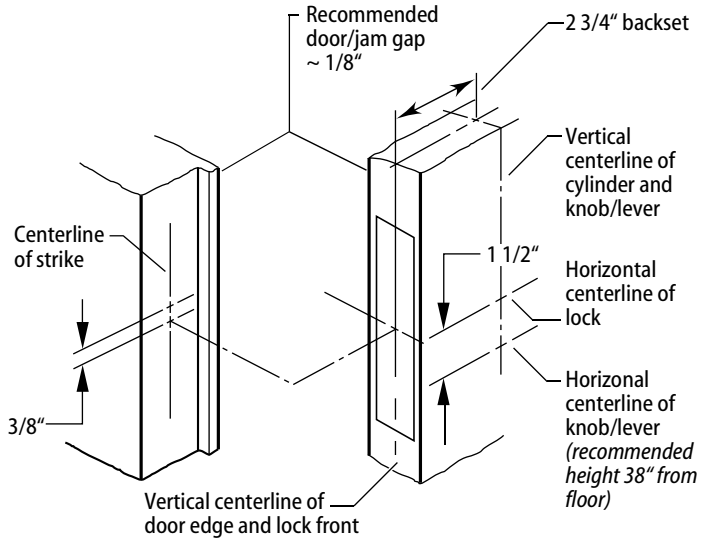

Figure 2

2 Mark the vertical centerline of the lock on the door's edge.

3 Mark the vertical centerline of the lock on both sides of the door as measured from the vertical centerline on the door's edge.

4 Mark the horizontal centerline of the strike on the door jamb 3/8" above the horizontal centerline of the lock.

2 Position template

1 Cut the template along the dotted line and align the horizontal and vertical arrows to the marked centerlines on the door.

2 Tape the template onto the door.

3 Center punch the drill points.

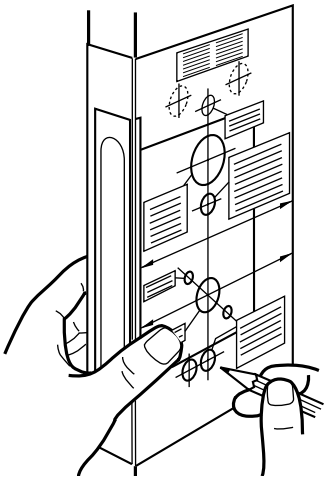

Figure 3

3 Mortise for lock case and front

Mortise the edge of the door to accommodate the lock case and face plate.

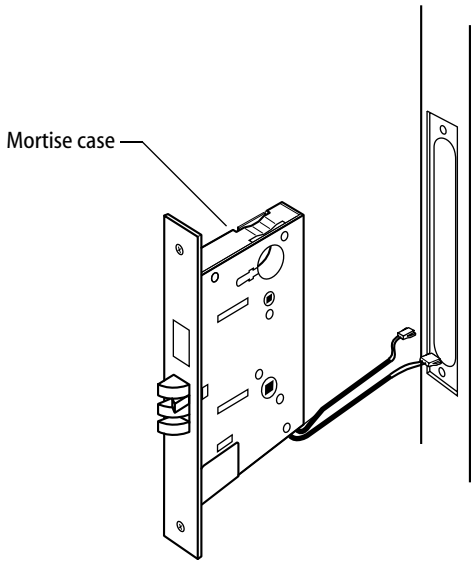

Figure 4

4 Drill holes

Caution: **Check the lock for the correct function, hand, and bevel before drilling.**

Drill only those holes required for the function.

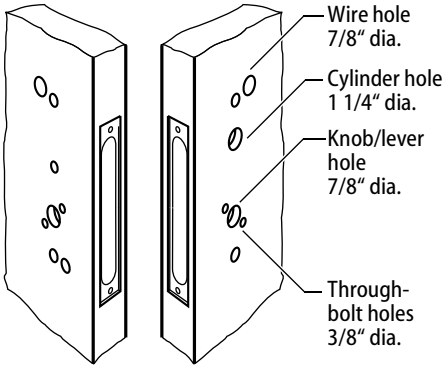

Figure 5—RH and RHRB hole pattern

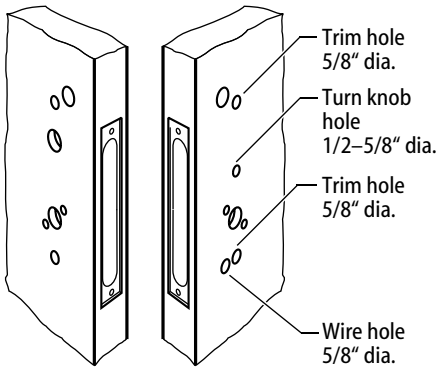

Figure 6—LH and LHRB hole pattern

5 Install mortise case

1 Remove the faceplate from the mortise case.

2 Install the mortise case while feeding the motor wire and deadbolt sensing wire (deadbolt function only) into the mortise cavity and out the wire hole (see Figure 7).

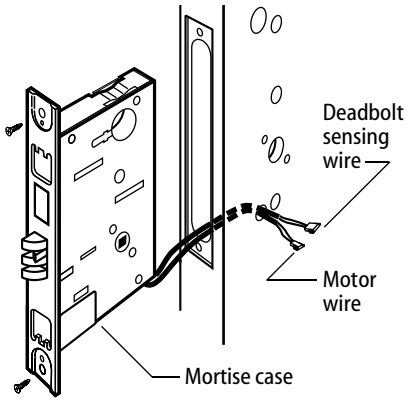

Figure 7

3 Secure the mortise case with the case mounting screws.

6 Install mounting plates

1 Insert the outside mounting plate through the door and lock case.

2 Position the inside mounting plate opposite the outside mounting plate and screw them securely in place.

Caution: **Do not overtighten the mounting plate screws. Overtightening may compress the mortise cavity and bind the locking mechanism.**

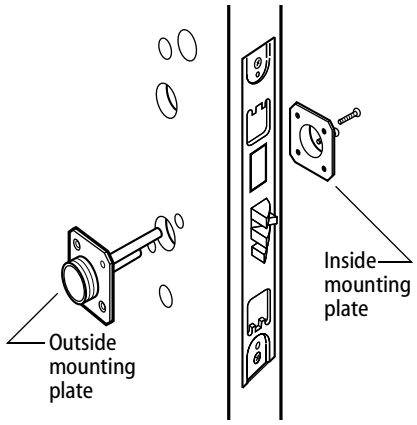

Figure 8

7 Install cylinder

Caution: **A malfunction can occur if the cylinder is threaded in too far.**

1 Thread the concealed cylinder into the lockset so that the groove around the cylinder head is even with the door surface. Adjust the cylinder depth plus or minus one turn so that the core, when installed in the cylinder, will be flush with the outer surface of the trim.

2 Secure the cylinder into the case with the case set screw.

3 Secure the faceplate.

4 Check the cylinder and lock for proper operation.

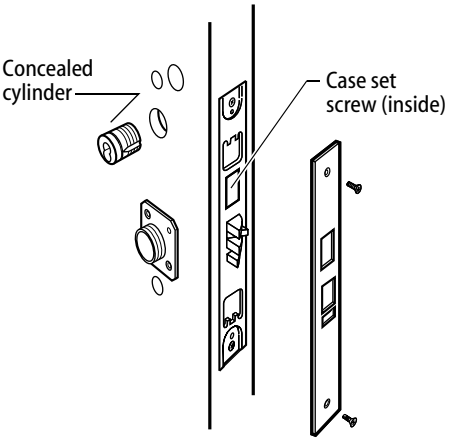

Figure 9

8 Install trim hole inserts and bushings

1 Insert the two trim hole inserts into the upper trim hole on each side of the door.

2 Insert the two bushings into the wire hole on each side of the door (see Figure 10).

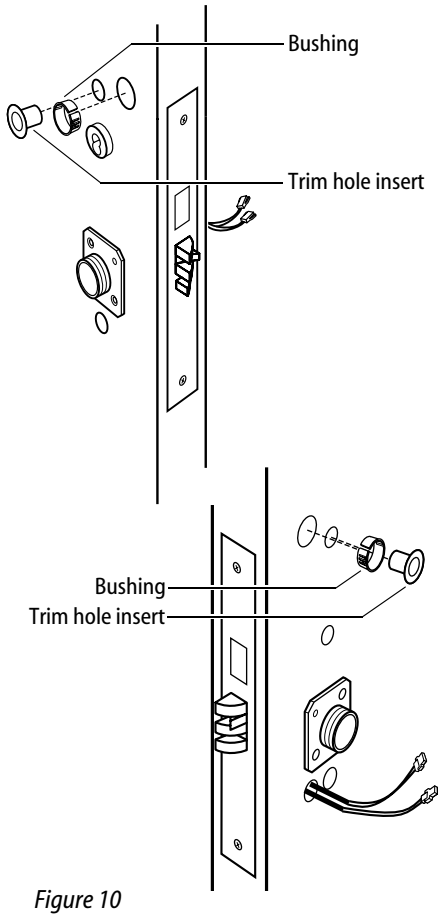

Figure 10

9 Make wire connections

1 Feed the outside wire harness connector through the top wire hole (see Figure 11).

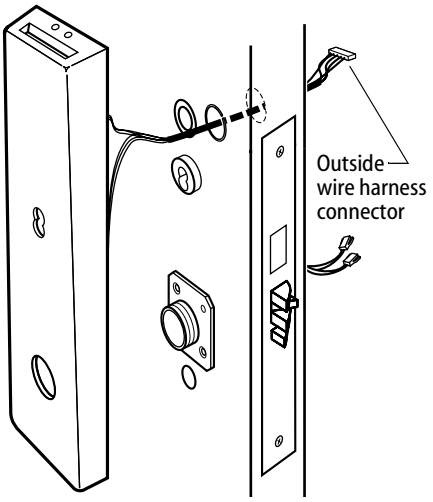

Figure 11

2 Temporarily rest the trim on the door by inserting the trim studs into the stud holes.

3 From the inside of the door, connect the motor connector and the optional deadbolt sensing connector to their mating connectors from the circuit board (see Figure 12).

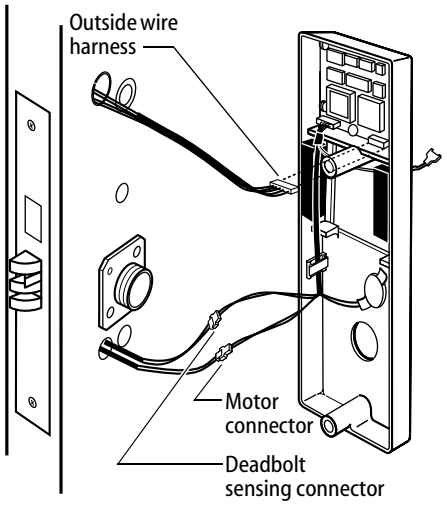

Figure 12

4 Making sure that the connector is properly aligned, connect the outside wire harness connector to the lower right circuit board connector in the inside trim. Press firmly on the connector until it is fully seated.

10 Secure escutcheons

1 Pull the excess outside wire harness back through to the outside of the door.

2 Position the inside and outside escutcheons onto the door.

3 **Making sure that the trim does not pinch the wires**, secure the trim to the door — but do not tighten — with the combination mounting screw at the top mounting hole and with the standard screw at the bottom mounting hole.

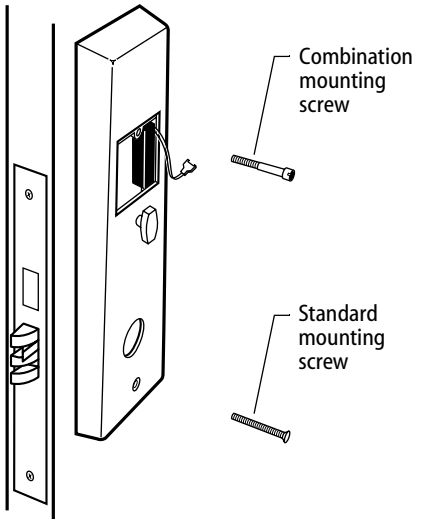

Figure 13

11 Connect battery pack

1 Connect the battery pack to the connector hanging inside the battery compartment.

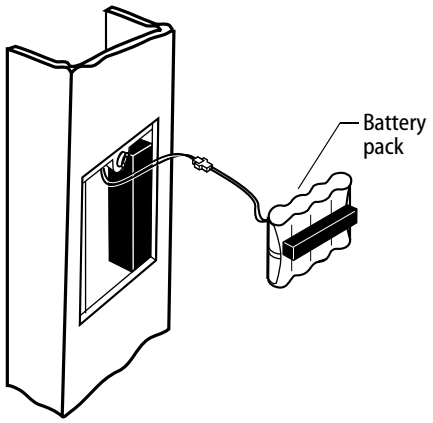

Figure 14

2 Insert the battery pack into the battery compartment so that the foam will face the battery door.

Caution: **If installing a lock with the turn knob function, make sure that the battery wires are not rubbing against the turn knob retaining ring.**

12 Install battery compartment door

1 Insert the tabs of the battery compartment door into its mating slots and swing the door closed.

2 Secure the battery compartment door with the security screw. Tighten firmly.

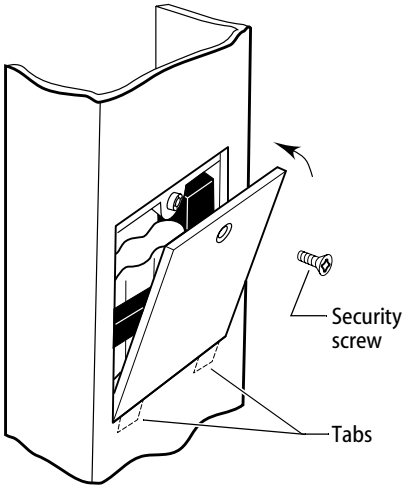

Figure 15

13 Install inside and outside levers/knobs

For both levers and knobs

Unscrew the inside spindle one full turn to allow the spindles to turn freely.

For levers

1 With the handle pointing toward the door hinges, put the outside lever and spindles into the lockset from the outside of the door.

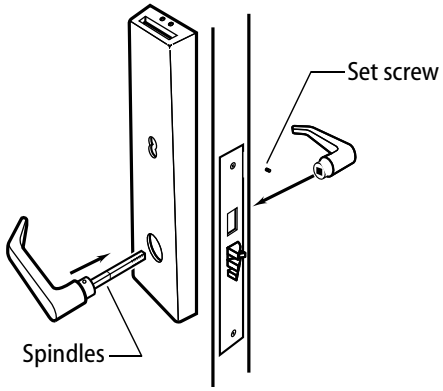

Figure 16

2 Slide the inside lever onto the inside spindle and secure it with the set screw.

3 Tighten the trim mounting screws (see Figure 13).

4 Turn the levers to check that they operate smoothly.

For knobs

1 From the outside of the door, put the outside knob and spindles into the lockset.

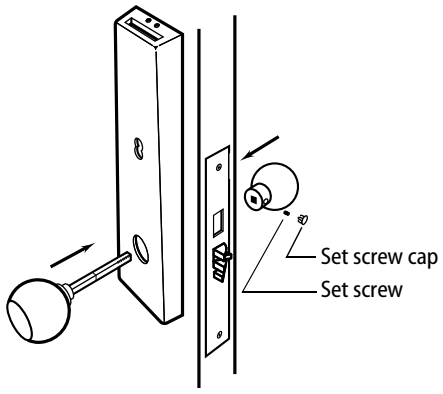

Figure 17

2 Slide the inside knob onto the inside spindle and secure it with the set screw.

3 Push the set screw cap into the set screw hole.

4 Tighten the trim mounting screws (see Figure 13).

5 Turn the knobs to check that they operate smoothly.

14 Install strike plate

1 Mortise the door jamb to accommodate the strike box and strike plate. (See Installation Specifications or dimensions, template V03 and H11.)

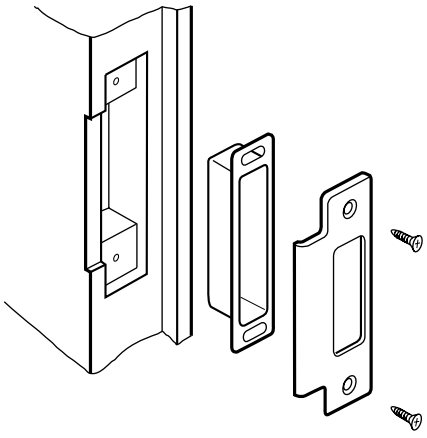

Figure 18

2 Insert the strike box into the mortise in the door frame and secure the strike with screws provided.

Caution: **The auxiliary bolt must make contact with the strike plate, as shown in Figure 19. The auxiliary bolt deadlocks the latchbolt and prevents someone from forcing the latch open when the door is closed. If the incorrect strike is installed, a lock-in can occur.**

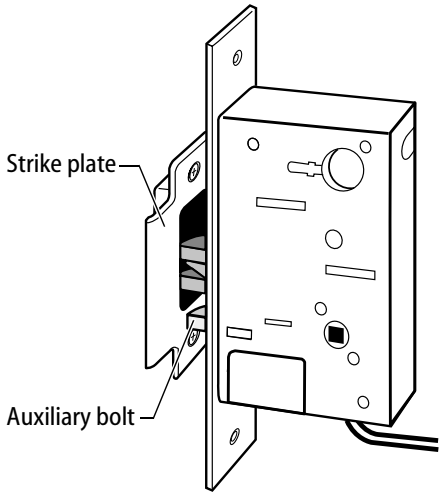

Figure 19

15 Install core

1 Insert the control key into the core and rotate the key 15 degrees to the right.
2 Insert the core into the cylinder with the control key.
3 Rotate the control key 15 degrees to the left and withdraw the key.

Caution: **The control key can be used to remove cores and access doors. Provide adequate security for the control key.**

16 Test lock

To test the lock for proper operation, use the temporary operator card or personal identification number (PIN) that came with the lock. This card or PIN is for temporary use only and once permanent cards or PINs have been programmed for the lock, you should delete the temporary cards or PINs.

These temporary operator cards and PINs will only work on factory default V Series locks.

For details on programming the lock for access control, refer to the *V Series Intelligent Programming Software User Manual* or the *V Series Handheld Terminal User Manual*.

For magnetic stripe card electronic locks

1 With the BEST logo facing toward you, insert and remove the temporary operator card (see Figure 20).

The green light flashes and the locking mechanism unlocks.

2 Turn the lever/knob and open the door.
3 Insert and turn the key to unlatch the door.

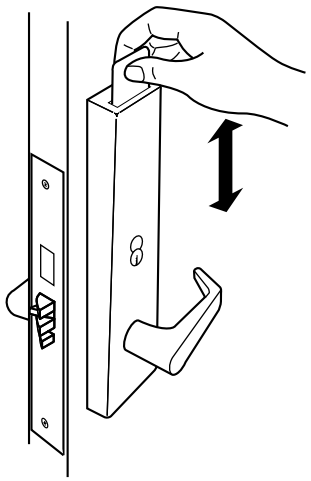

Figure 20

For keypad electronic locks

1 Enter the temporary operator PIN **99998**.
2 Press ✻.

The green light flashes and the locking mechanism unlocks.

3 Turn the lever/knob and open the door.
4 Insert and turn the key to unlatch the door.

For proximity card electronic locks

1 Place the temporary operator card in front of the proximity reader (see Figure 21).

The green light flashes and the locking mechanism unlocks.

2 Turn the lever/knob and open the door.
3 Insert and turn the key to unlatch the door.

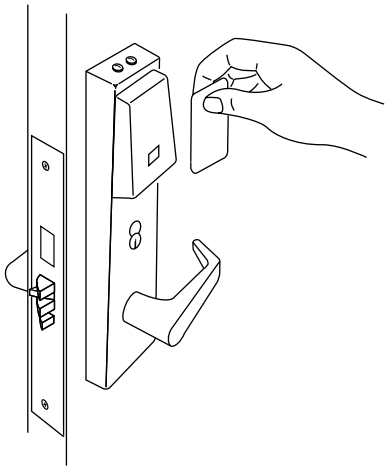

Figure 21

If the mechanism doesn't unlock, refer to the following table.

LEDs	Sounder	Access	You should…
	1 long tone	Denied	Use the token at a moderate speed.
Green stays on		Denied	Use the temporary operator token, not the temporary communication token.
Green flashes		Denied	Connect the motor wires.
		Denied	Connect the battery and connect the outside wire harness.