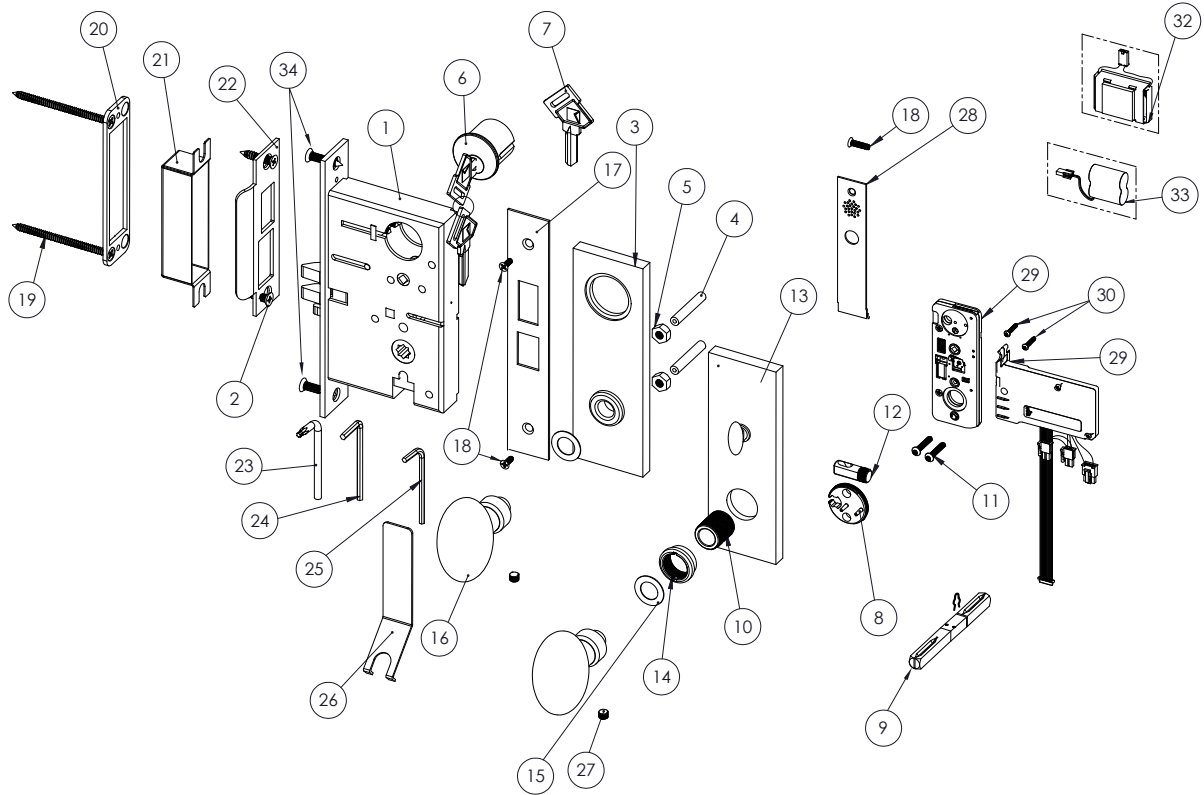




SecuRemote® Enabled Knob by Knob or Lever by Lever Entrance Function Instructions

These instructions are designed to be a guide for assembly. The actual "ORDER" of assembly may be altered by the craftsman. We have included explanations of the design at several intervals so as to assist the installer. The Keeler concept was designed in conjunction with several experienced craftsman in the US, and several of the features are designed to allow proper alignment on the door for a smooth operation.

Installation Sections: Preparing the door, Mortise case installation, Exterior escutcheon installation, Interior escutcheon installation, Armor plate installation, Preparing the jamb and Strike installation

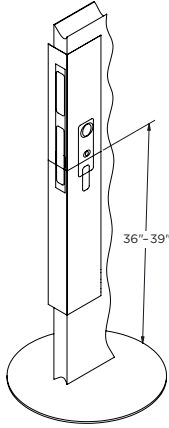


ITEM	DESCRIPTION	QTY.	ITEM	DESCRIPTION	QTY.
1	MORTISE CASE	1	18	SCREW 6-32 X 3/8 FLAT UC PHIL	3
2	SCREW, #12 WOOD MOD THD FINISH	2	19	SCREW #10 X 3" WOOD PHIL FLAT	2
3	EXTERIOR ESC ASSY KK/LL	1	20	SECURITY STRIKE	1
4	CENTERING STUD	2	21	DUST BOX	1
5	STEEL HEX NUT	2	22	STRIKE	1
6	MORTISE CYLINDER 1-1/8" (WITH CUT KEYS)	1	23	TORX KEY T10	1
7	KEY BLANK	1	24	HEX KEY 9/64"	1
8	CYLINDER BLOCK ASSY	1	25	HEX KEY 1/8"	1
9	SPINDLE ASSY. L/L, K/K	1	26	WRENCH	1
10	THREAD BUSHING GUIDE	1	27	POINTED SET SCREWS	2
11	SCREW, 6-32 X .750" PAN TORX	2	28	ARMOR PLATE TOP	1
12	INSIDE ANCHOR POST 1.75" - 2"	1	29	MORT. E-CHASSIS KIT	1
13	INTERIOR ESC. ASSY.	1	30	SCREW, #4 X 3/4" WOOD PHIL FLAT	2
14	THREADED COLLAR	1	31*	TEMPLATE	1
15	KNOB/LEVER WASHER	2	32	BATTERY BOX ASSEMBLY	1
16	KNOB/LEVER	2	33	BATTERY 7.2V PACK	1
17	ARMOR PLATE 8" BOTTOM	1	34	#12 WOOD SCREWS, UNFINISHED	2
			35*	INSTRUCTIONS	1

*not shown

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1



The provided Keeler template is designed for doors with a square edge (non-beveled) miter. If you are using a beveled edge, you will need to adjust for the backset distance, on the lead edge.

The red outlined features on the template are for the inside of the door.

The Keeler template is marked with the center line of the knob; position the folded portion as shown 36 to 39 inches from the floor.

WARNING: Verify the door will accommodate the mortise lock. Verify the trim will not interfere with the door stop, door panel or glass.

2



Porter Cable model number 513

After marking the door edge, it is recommended to use an automatic router similar to the Porter Cable® model number 513 (or an alternate) as shown here to router the door edge.

Follow the Porter Cable instructions for setting the router dimension cuts.

3

PREPARING THE DOOR

Route the door for the electronic components (battery and CPU) and the mortise case as shown. As always, avoid routing the pocket too deep.

The pocket depth should be:

4 3/16"—for the electronic components.

4 1/16"— for the 2 3/4" back set, this allows 3/16" clearance behind the mortise case.

The 2 3/4" backset mortise case measures 3 7/8" wide.

3 13/16"— for the 2 1/2" back set, this allows 3/16" clearance behind the mortise case.

The 2 1/2" backset mortise case measures 3 5/8" wide.

The opening should be routed out to a 1" width.

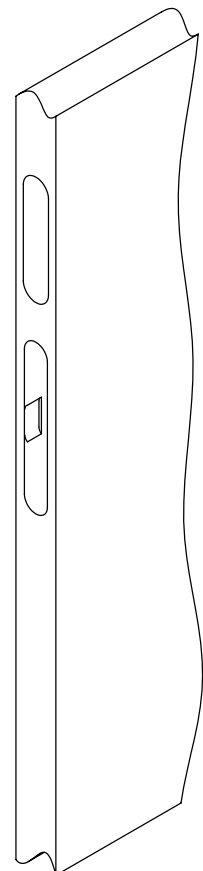
The height needs to be 6 1/2".

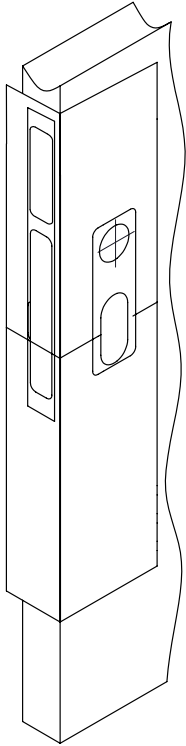
Next, route the armor plate opening, as shown. The pocket depth should be .2" or approximately 3/16". Route the opening to 1 1/4" wide and the height should be 8".

Use a squaring chisel to square the corners of the armor plate opening, as shown.

Next, add the small pocket(s) for clearance of the latch pivot as shown. The template indicates the depth .625" (5/8") and position of the undercut.

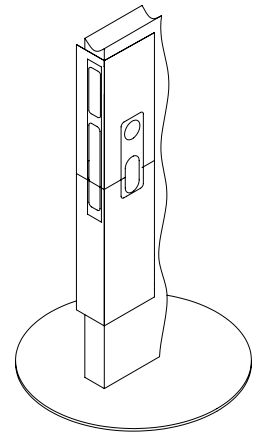
NOTE: Only one undercut is needed, depending upon the hand of the mortise case. The template has two (2) to allow for the hand of the lock.



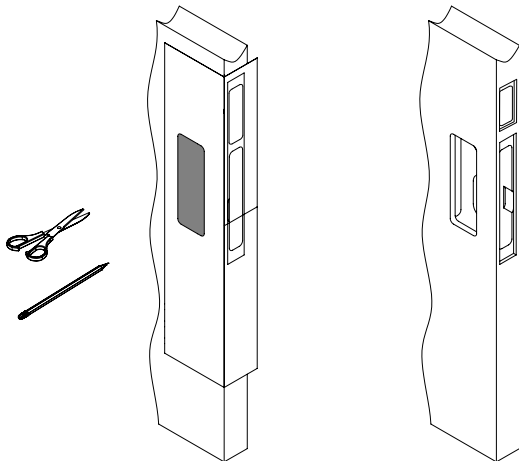
4**EXTERIOR SIDE OF DOOR***Image A*

Re-attach the template and mark the center line of the two holes. Caution! The backset shown is for a square (non-beveled) door. If the door has a bevel, move the center line as needed.

1. Mortise Cylinder Hole: Drill 1 $\frac{3}{8}$ " Dia.
Intersect the mortise pocket only.
2. Drill 1- $\frac{1}{4}$ " x 2- $\frac{3}{4}$ " slot as shown in Image B.

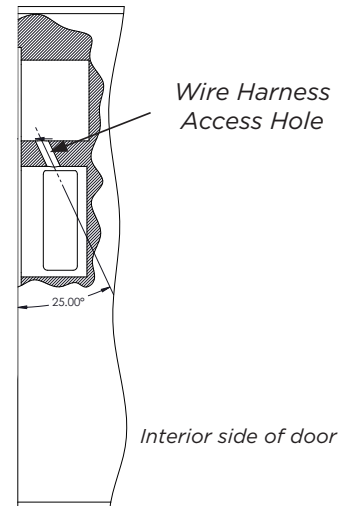


*After drilling holes
Image B*

5**INTERIOR SIDE OF DOOR***Image B**After routing*

Cut the shaded area rectangle out of the template using scissors. This area will be used for the alignment chassis of the interior handle. Mark the outline of the cutout area.

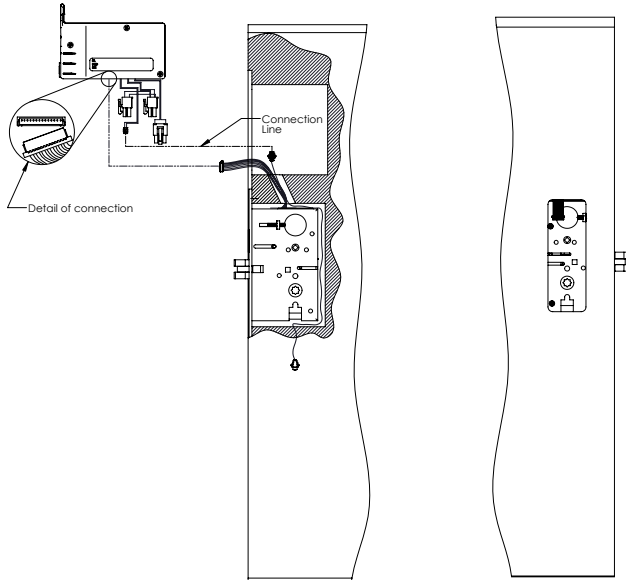
Route the interior of the door. It should resemble Image B.

6*Interior side of door*

Drill a connection access hole between the two routed pockets.

Drill a $\frac{5}{8}$ " hole from the electronic component pocket at a 25° angle to the mortise lock pocket.

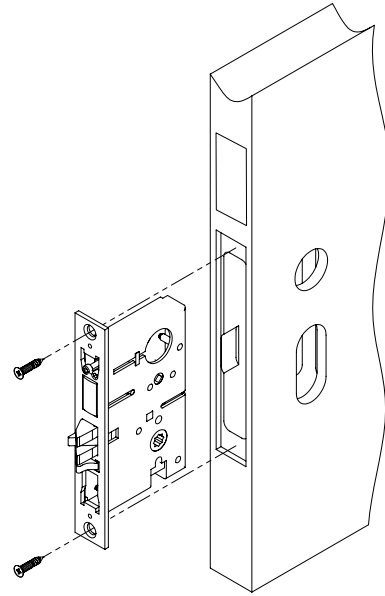
7



Insert the CPU and secure to the top of the Electronic Component Pocket using two Wood Screws (#4 X 3/4" Wood Phil Flat). Be sure to put the CPU wiring harness through access hole and out the interior side of the door.

8

MORTISE CASE INSTALLATION



Next, pre-drill the two pilot holes— $\frac{3}{16}$ " diameter by $\frac{5}{8}$ " deep—for the mortise case screws on the center line of the edge as shown. Slide the mortise case into the opening and thread in the two unfinished #12 wood screws. Do not tighten flush yet.

9

EXTERIOR ESCUTCHEON INSTALLATION

Install the knob or lever spindle assembly into the mortise case as shown in Image A.

Locate the $\frac{1}{4}$ -28 centering studs and the steel hex nuts (A) as shown in the image. The stud has internal threads on one end and a nylon anti-vibration patch on the other end. Screw the end with the anti-vibration patch into the exterior escutcheon and hand tighten. Then, install the nut loosely onto the $\frac{1}{4}$ -28 threaded area. Position the nuts close to the inner surface of the escutcheon.

Slide the assembly into the mortise case as shown. **The next steps are important for aligning the mortise case parallel (flat) to the door surfaces.**

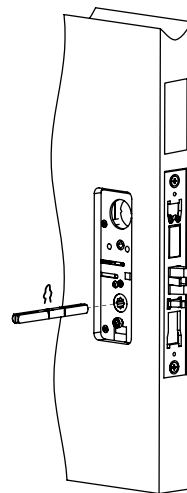


Image A

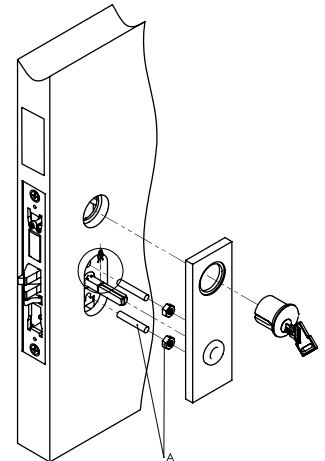
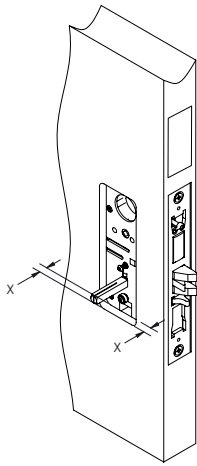
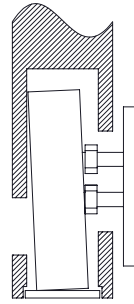


Image B

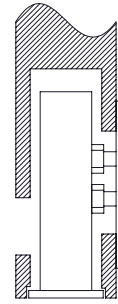
10



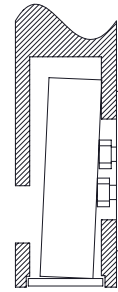
NOTE: The distance "X" should be equal.



Incorrect



Correct



Incorrect

Using the ¼-28 nuts on the exterior escutcheon assembly, adjust the nuts against the mortise case until they are square to the door surfaces as shown in the center "CORRECT" image above. By removing the exterior escutcheon assembly the nut may be threaded in or out until proper alignment is achieved. The mortise case is designed to swivel and moves inwards and outwards as you push it. This feature allows the armor plate to be tilted for beveled doors. However, the mechanism needs to be squared to the inner and outer escutcheons.

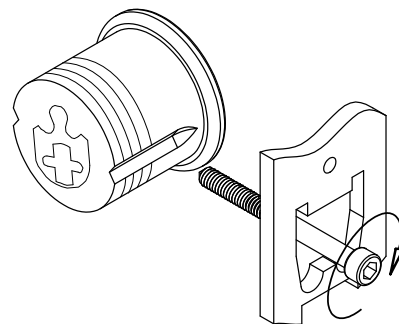
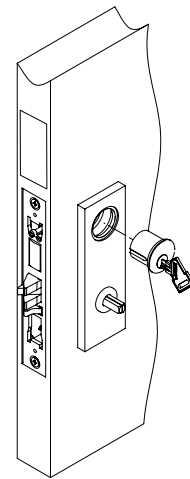
Push the mortise case with your fingers against the ¼-28 nuts and do not allow the exterior escutcheon to push away from the door surface. You may need to move the nuts a few times to get it aligned properly. The result will ensure the mechanism works smoothly after it's assembled.

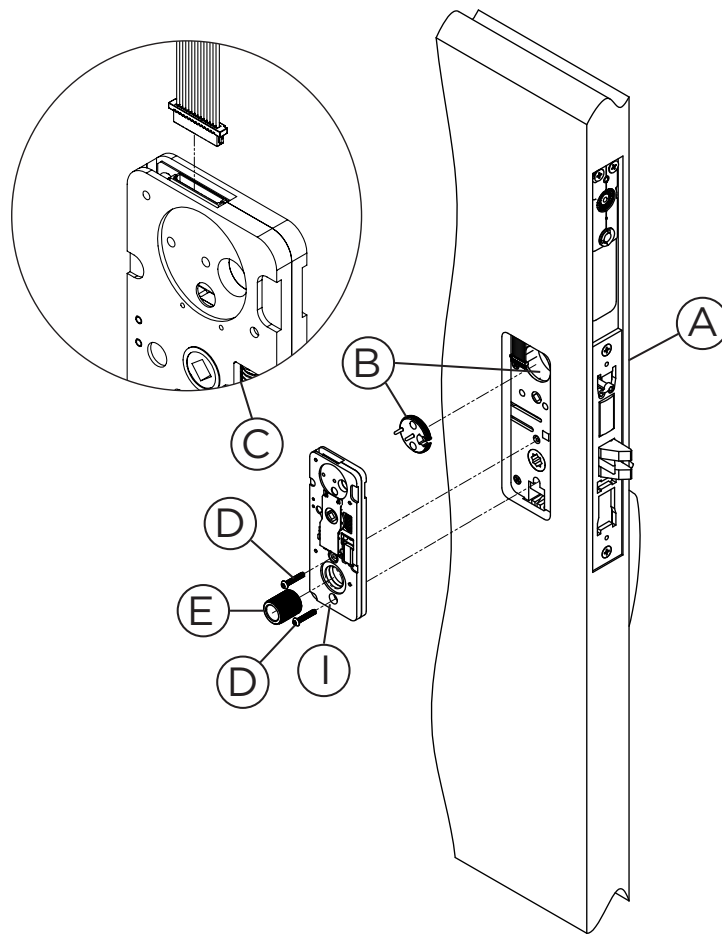
11

Use an Allen wrench (supplied) to back the Allen screw in the edge side of the door out of the way of the threads in the threaded cylinder area.

Install the lock cylinder by carefully threading it (rotating clockwise) into the mortise case as shown, using the key blank to prevent the tumbler from moving. Make sure the cylinder is in the correct position (keyhole is vertical).

Lock the cylinder in the vertical position with the Allen screw. Avoid over-tightening to prevent damaging the threads on the cylinder. Tighten mortise lock screws.





A. Begin by first checking the Allen screw in the edge side of the door and backing it out of the way of the threads in the threaded cylinder area.

B. Install the threaded cylinder plug assembly into the mortise case, opposite the key cylinder, as shown. Thread the cylinder plug assembly into the mortise case until it is nearly flush with mortise case side surface. Align the two pins on the threaded cylinder plug horizontally so the “D” shaped opening faces the door edge.

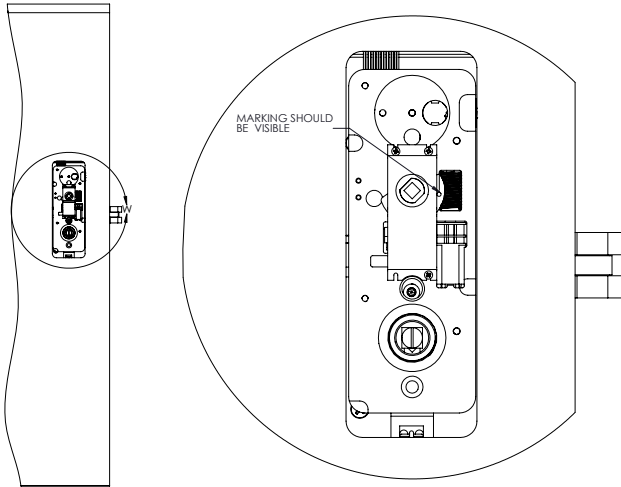
C. Connect the E-Chassis to the CPU cable taking care not to disconnect the CPU Cable from the CPU.

— Slide the alignment chassis (I) over the two pins of the cylinder plug assembly into the mortise case. The mortise case should be flat and hidden inside the pocket of the wood.

D. Install 2 TORX screws through the chassis and into the ¼-28 stud from the outer escutcheon. Tighten until snug.

E. Install the threaded bushing guide for the knob/lever into the alignment chassis. The bushing needs only to be installed flush to the back of the alignment chassis

14



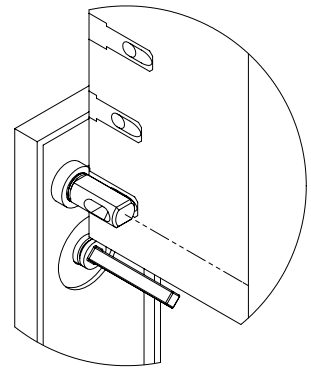
Make sure that marking is visible.

15

Interior Escutcheon Posts



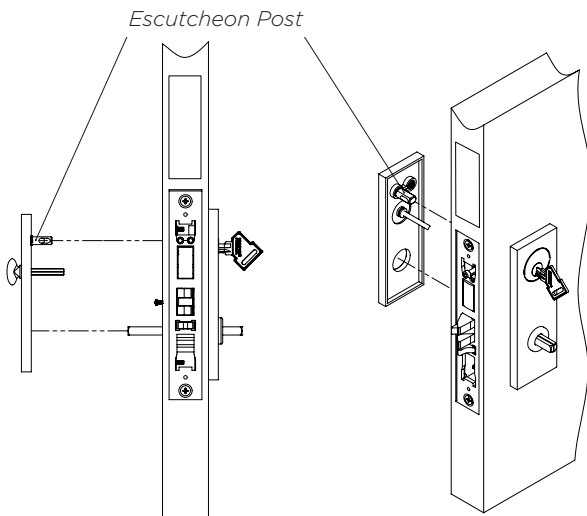
1 3/4" - 2" thick doors



There is one interior escutcheon post provided in your kit. There are two threaded holes on the interior escutcheon, use the threaded hole on the edge side of the interior escutcheon. Screw the appropriate post into the interior escutcheon, using the template, set the distance as shown.

Note: The orientation of the escutcheon post opening should be horizontal to match the alignment cylinder. Also keep the larger of the oblong openings pointing toward the door edge.

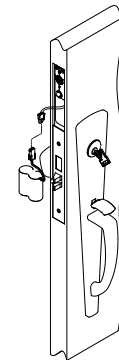
16



Install the interior escutcheon by sliding the double "D" into the alignment bushing. It should slip very easily into the bushing. Do not force it.

See image 15 for install orientation.

17

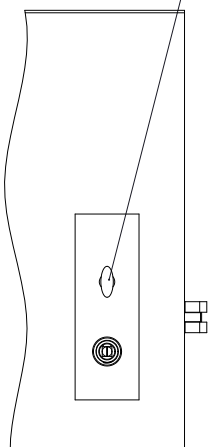


Lithium Ion Pack

Hold the interior escutcheon plate in place. Match the plugs on the battery and CPU and connect. Test for functionality. With the interior escutcheon plate in place and the battery connected depress the black Auto-Lock button on the CPU. The lock will announce "Auto-Lock Engaged" then fully depress the latch bolt with your finger and release it. If the lock is operating properly the deadbolt will be thrown out automatically. If the deadbolt does not throw out automatically, check the connections between the e-chassis, the CPU Cable and the CPU Unit. Once the lock is operating properly, finish inserting the battery pack into the Electronic Component Pocket. Unlock the deadbolt with the thumb turn.

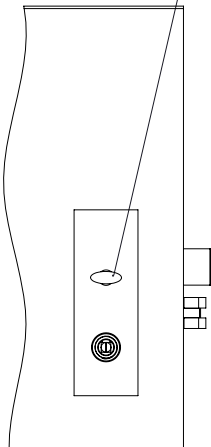
18

Orientation of thumb turn in **unlocked** mode



A

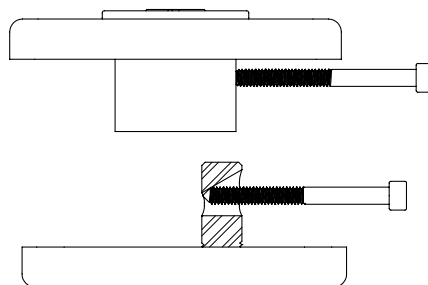
Orientation of thumb turn in **locked** mode



B

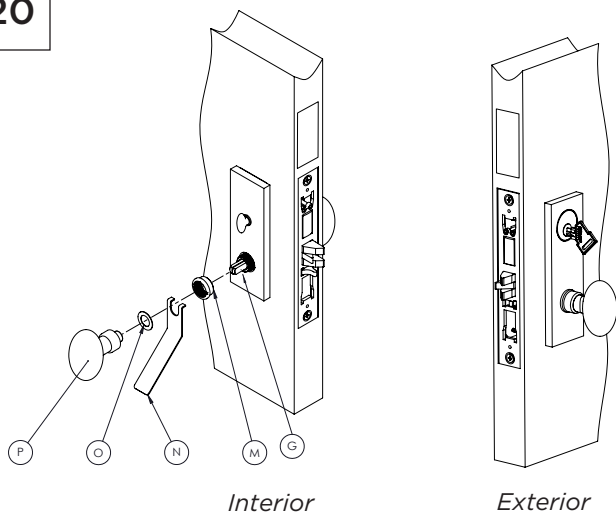
The interior escutcheon thumb turn should be orientated as shown in *Image A* during the assembly.

19



The interior escutcheon is held in place by the hardened Allen screw similar to the screw used to hold the lock cylinder in place. This screw is already assembled inside the mortise case. The screw tightens and “pulls” on the ramp angle in the interior escutcheon post. If the screw does not “pull” the escutcheon in towards the door face, then the interior escutcheon post needs to be screwed in tighter. If the screw misses the angle slot then the opposite is true. The interior escutcheon post needs to be moved outward.

20



Interior

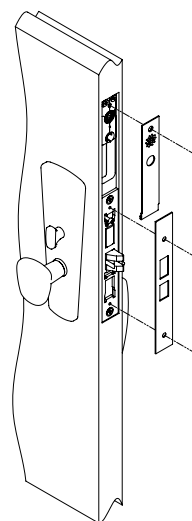
Exterior

The threads of the bushing now should be protruding through the escutcheon. Locate the threaded collar (M). Using the supplied wrench (N), tighten the decorative nut.

Next, install the nylon (grey) washer (O) and the knobs (P) or levers on each side (interior and exterior). Set screw holes should be facing the floor when installing knob or lever.

21

ARMOR PLATE INSTALLATION

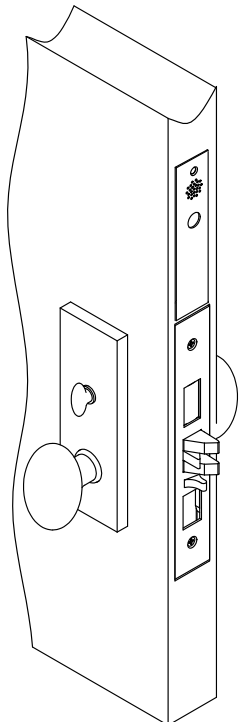


Install the bottom armor plate using the two decorative screws provided.

Insert lip of the top armor plate behind the top of the armor plate using a decorative screw.

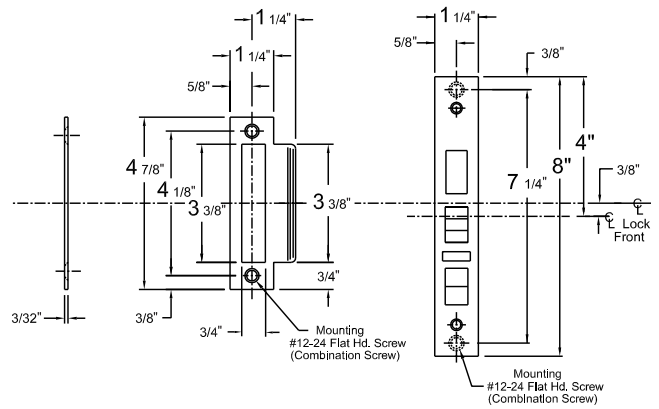
22

THE COMPLETED ASSEMBLY



23

PREPARING THE JAMB AND STRIKE INSTALLATION



Use center lines above to locate the proper height of the strike plate.

NOTE: The strike plates are handed.

24

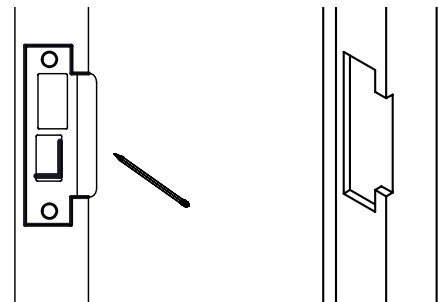


Image A

Image B

Place your strike plate to align with the security strike. Draw an outline around the perimeter of the strike plate. (Image A)

Route and chisel out the pocket for the strike plate as outlined. The pocket should be 1/4" deep to allow for the security strike to fit under the strike plate. With both plates installed, the strike plate should be flush with the door jamb. Your finished prep should resemble Image B.

25

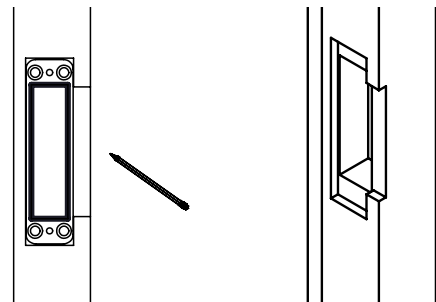


Image A

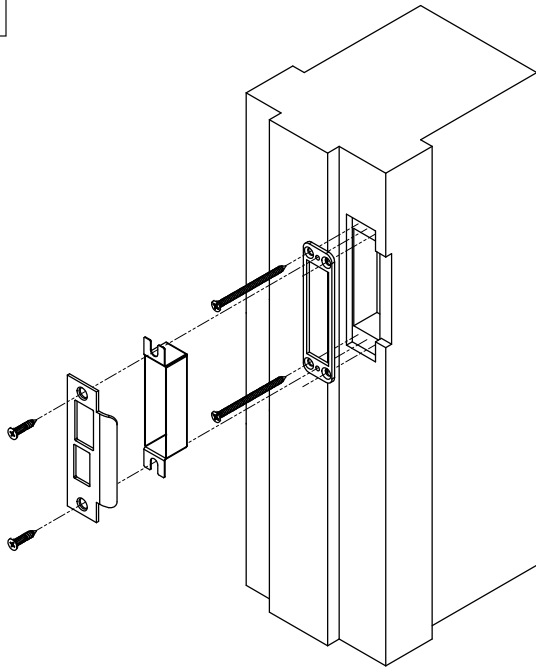
Image B

Using the security strike, place the strike carefully into the 1/4" pocket that you just made. Trace the inside rectangle shape onto the wood. This area is to fit the dust box. Also mark the six (6) screw hole positions.

Route the dust box pocket out. The minimum depth is one inch (1") deep. Image B shows what the finished prep should look like. You will need to square off the corners for a proper dust box fit.

NOTE: Be careful not to split the jamb opening of the dust box.

26



Drill two (2) $\frac{3}{16}$ " diameter pilot holes a full 3" deep for the security strike screws. This will help prevent the wood from splitting behind the jamb. Lubricating the screws with wax or soap will aid in smooth installation.

Drill two $\frac{1}{8}$ " diameter holes for the strike plate screws. The two #12 flat head screws are threaded into the strike plate at the top and bottom. These screws have a section of machine thread that is designed to engage into the security strike holes.

If you have any questions or comments please feel free to contact Keeler directly at (800) 235-9484. We always strive to improve your experience with our product lines.

Thank you,
The Belwith Design and Management Team