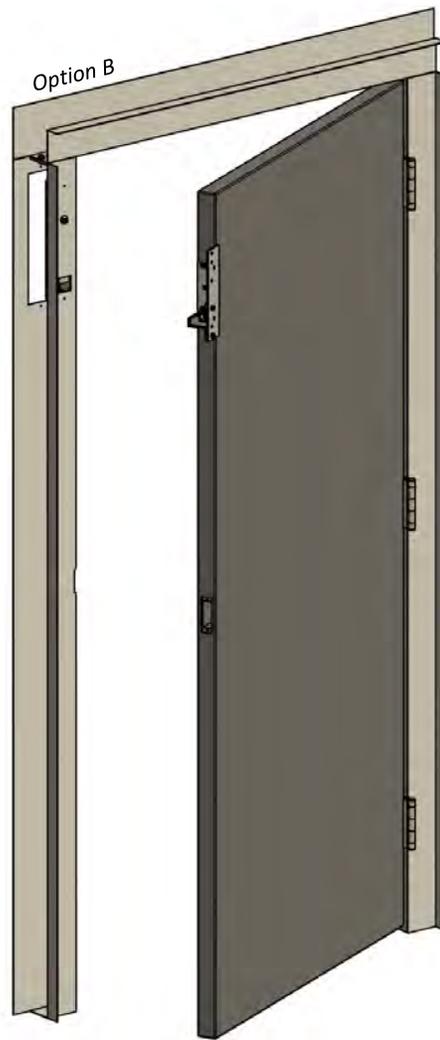
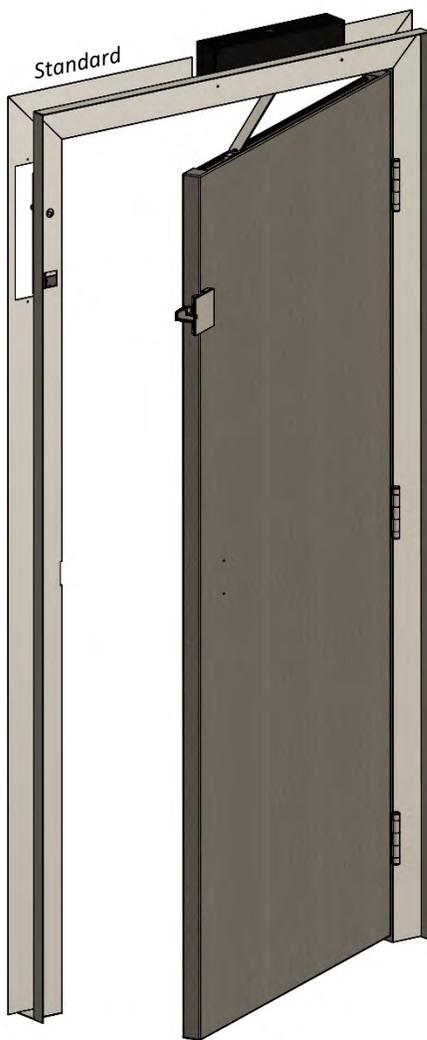




**ROCKY MOUNTAIN
ELEVATOR PRODUCTS**
LIVE LIFE ELEVATED

RMEP 3/4" Door Installation Guide



Patent Pending

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INTRODUCTION

The RMEP ¾" door frame allows installation of a hoistway door with minimal intrusion into the hoistway for maximum clearance from car sill to hoistway sill. This will allow the hoistway door and the cab gate to comply with the new 0.75" rule under section 5.3.1.7.2 of the ASME Code.

It is not the intention of this document to obstruct the development of alternative installation methods, nor is it intended to restrict free installation solely to all types noted herein.

The RMEP ¾" Door Frame can accept both the RMEP SMARTLOCK and the Honeywell RDI series locks. The installation of the RMEP ¾" Door Frame allows for the 0.75" of clearance from the sill to the hoistway door by allowing the hoistway door interlock to mount inside the door frame. This manual covers the installation of the lock into the door frame.

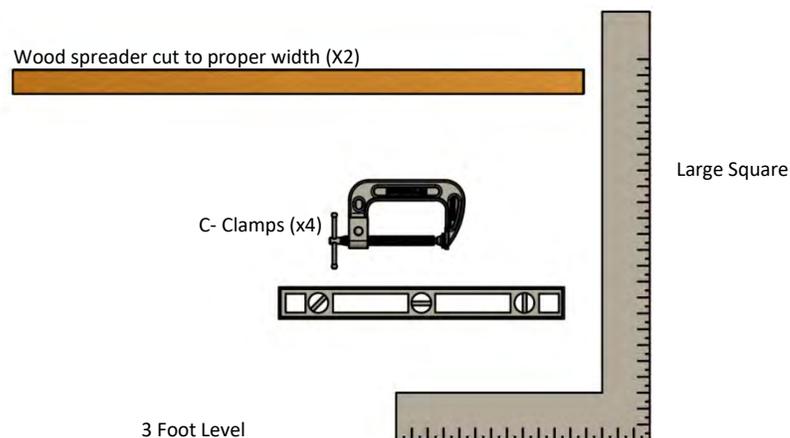
REQUIRED EQUIPMENT

Equipment for plumbing the frame

The contactor should be equipped with carpenter's level, carpenter's square, wood spreaders, C-clamps, and a full set of hand tools.

Tools

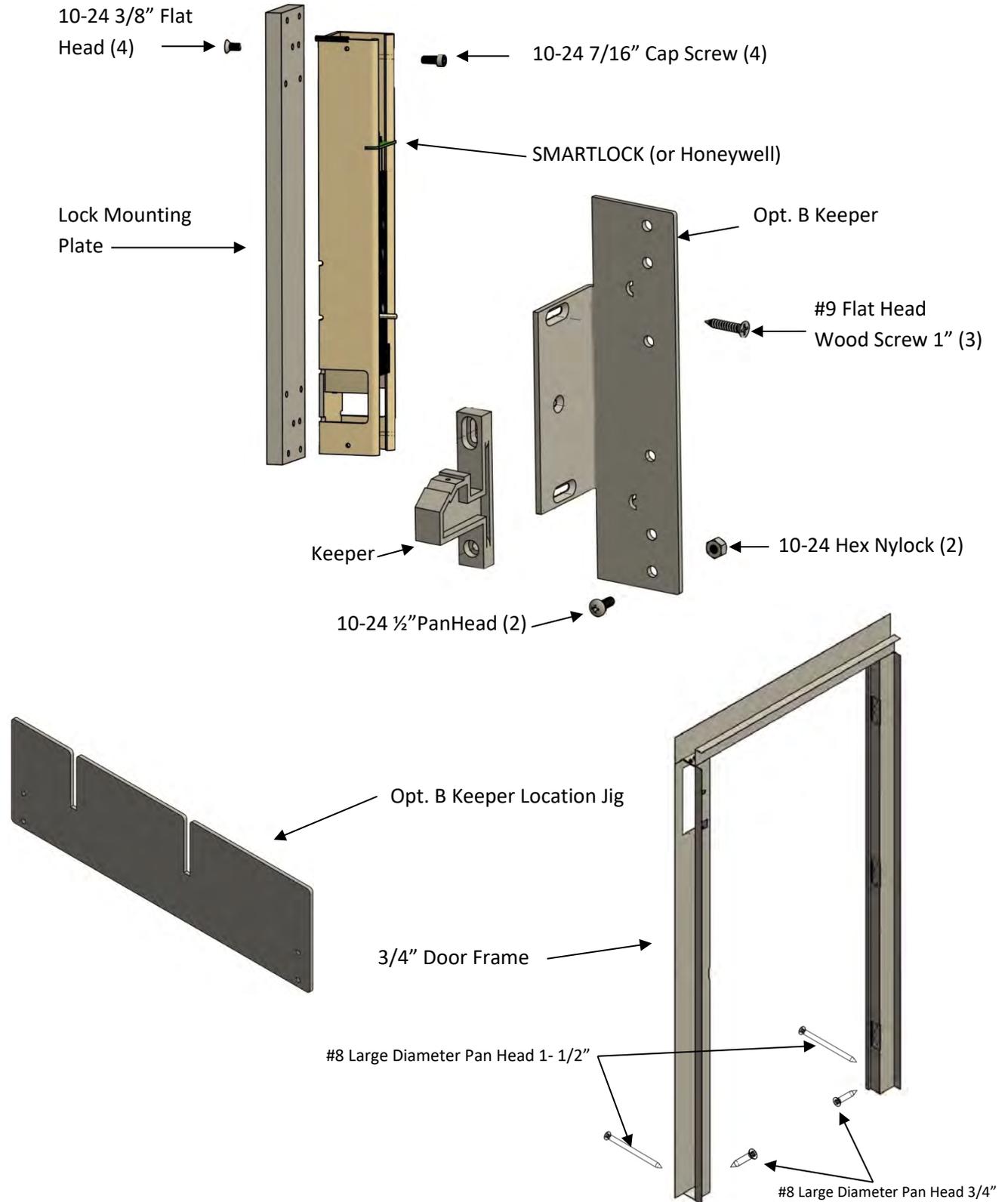
- Standard Hand Tools
- 3/32" flathead screwdriver
- Set of Allen Wrenches



Where welded frames are provided with shipping spreader bars, they should be removed with a suitable saw or chisel and filed flush before setting the frame.

PARTS IDENTIFICATION

Figure 1. (RMEP Smartlock Shown. For Honeywell locks substitute lock, keeper and 10-24 panhead screws.)

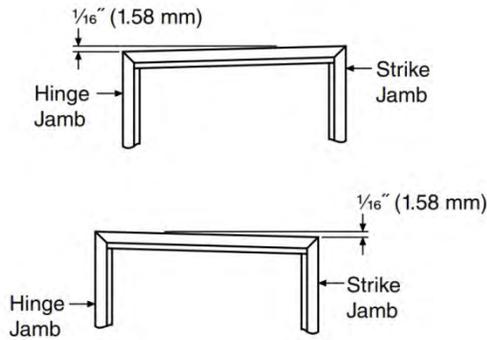


INSTALLATION TOLERANCES

While this document is mainly concerned with the installation process, proper tolerances must be held, and openings will not function properly if the frame is not installed within recognized tolerances.

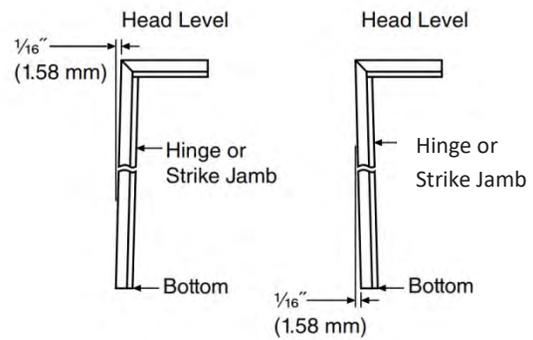
Figure 2 shows examples of the accuracy to be maintained when setting frames.

Figure 2.

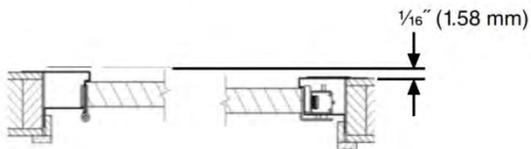


Maximum 1/16" allowable tolerance on total opening.

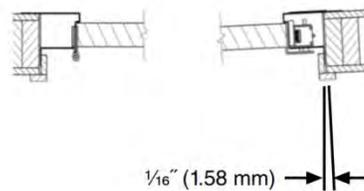
1a – Squareness



1b – Plumbness



1c – Alignment



1d – Twist

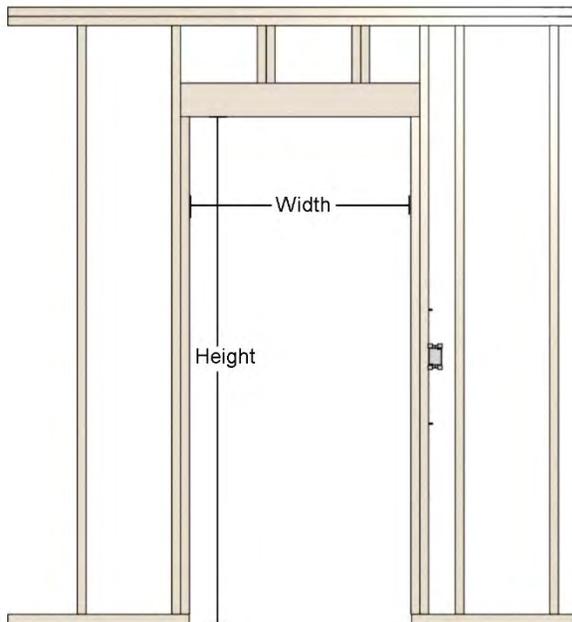
VERIFICATION

Verify that the rough door frame is the proper size for the door and frame ordered before the installation process begins. If there is a discrepancy in size, ensure that the discrepancy is corrected before proceeding with the installation. Verify that door swing is also correct before installing the door frame.

Figures 3a and 3b.

Door Framing Size

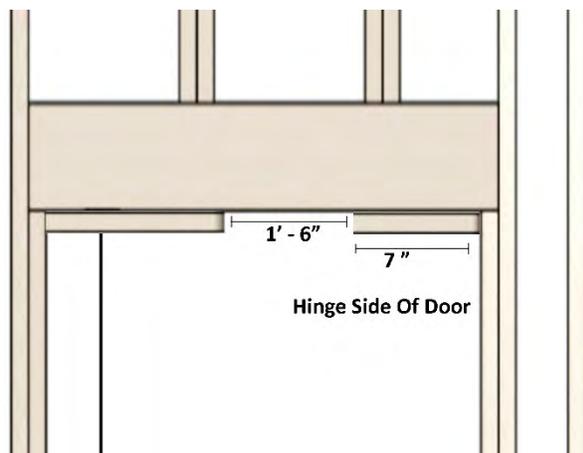
For rough opening size, add **3.25"** over the HEIGHT of door size
6.5" over the WIDTH of door size.



Door Size		Rough Framing Opening		With Opener
Width	Height	Width	Height	Height
3' X 6' - 8"		3' - 6 3/4"	X 6' - 11 1/2"	7' - 1"
3' X 7'		3' - 6 3/4"	X 7' - 3 1/2"	7' - 5"
3' X 7' - 6"		3' - 6 3/4"	X 7' - 9 1/2"	7' - 11"
3' X 8'		3' - 6 3/4"	X 8' - 3 1/2"	8' - 5"
2'-10" X 6' - 8"		3' - 4 3/4"	X 6' - 11 1/2"	7' - 1"
2'-10" X 7'		3' - 4 3/4"	X 7' - 3 1/2"	7' - 5"
2'-10" X 7' - 6"		3' - 4 3/4"	X 7' - 9 1/2"	7' - 11"
2'-10" X 8'		3' - 4 3/4"	X 8' - 3 1/2"	8' - 5"
2' - 8" X 6' - 8"		3' - 2 3/4"	X 6' - 11 1/2"	7' - 1"
2' - 8" X 7'		3' - 2 3/4"	X 7' - 3 1/2"	7' - 5"
2' - 8" X 7' - 6"		3' - 2 3/4"	X 7' - 9 1/2"	7' - 11"
2' - 8" X 8'		3' - 2 3/4"	X 8' - 3 1/2"	8' - 5"
2' - 6" X 6' - 8"		3' - 3/4"	X 6' - 11 1/2"	7' - 1"
2' - 6" X 7'		3' - 3/4"	X 7' - 3 1/2"	7' - 5"
2' - 6" X 7' - 6"		3' - 3/4"	X 7' - 9 1/2"	7' - 11"
2' - 6" X 8'		3' - 3/4"	X 8' - 3 1/2"	8' - 5"
2' - 4" X 6' - 8"		2' - 10 3/4"	X 6' - 11 1/2"	7' - 1"
2' - 4" X 7'		2' - 10 3/4"	X 7' - 3 1/2"	7' - 5"
2' - 4" X 7' - 6"		2' - 10 3/4"	X 7' - 9 1/2"	7' - 11"
2' - 4" X 8'		2' - 10 3/4"	X 8' - 3 1/2"	8' - 5"

Figure 3a

*1/4" added for shims



For frames with door operators add 1-1/2" to the height, block in header with 2x4s as shown in Figure 3a to clear the operator housing.

Figure 3b.

STORAGE

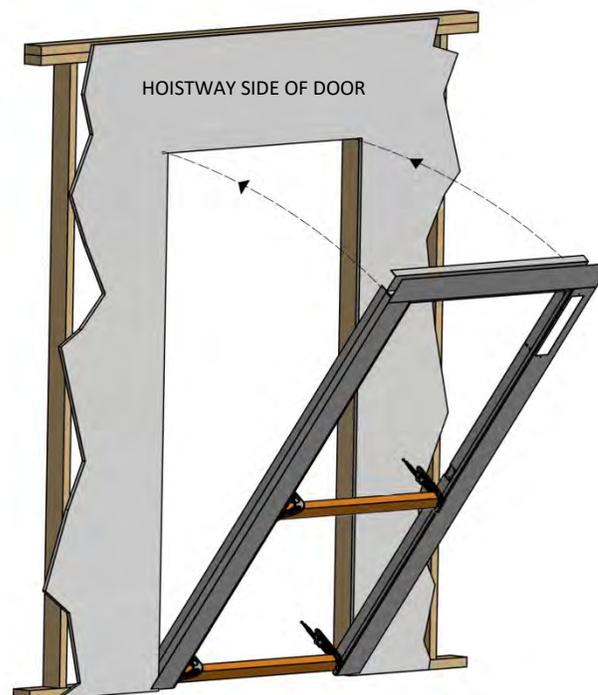
Frames shall be placed flat on at least 4 inches of wood to prevent the frames from resting on the ground. All frames shall be stored under cover to prevent rusting. Frames are to be stored in a manner to protect them from becoming damaged. Welded frames are to be stored vertically.

POSITIONING THE FRAME

Place the frames legs into position at the base of the rough opening, and tip the frame into position (See Figure 5).

Figure 5. Installing the Frame

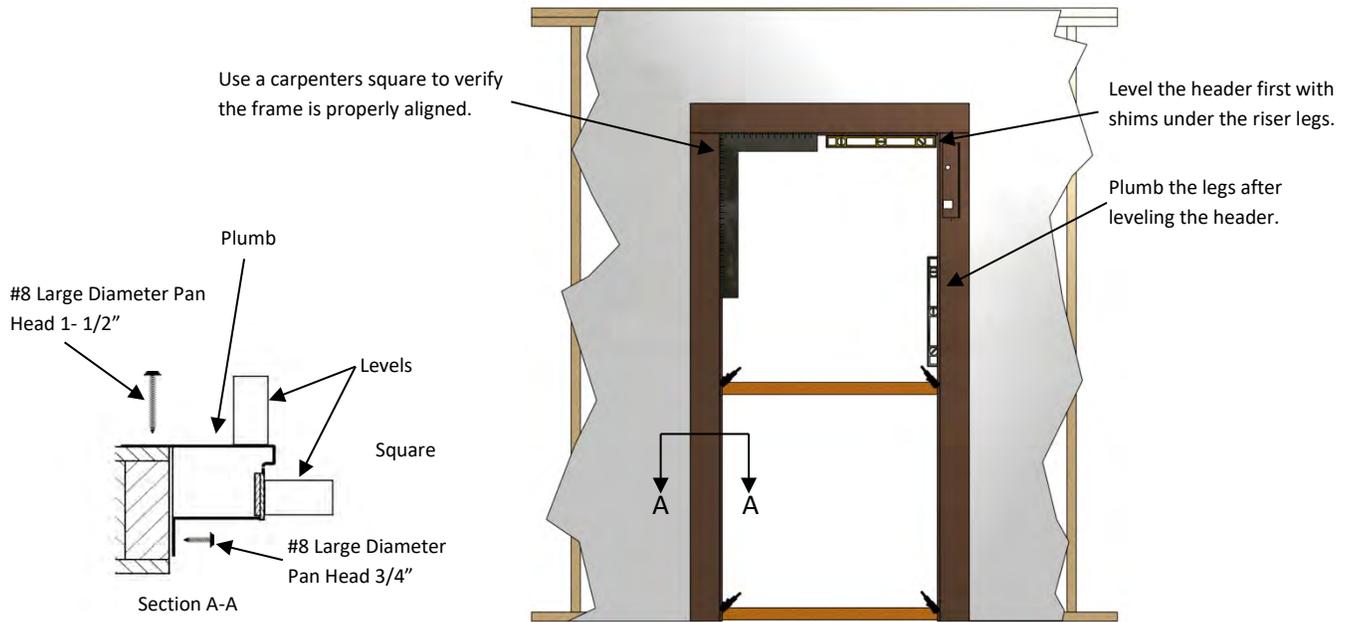
Insert the legs of the frame into position and tip the frame into position.



Set the frame inside the desired location and level the header. Square jam to header. Shim riser legs under jambs if necessary.

Remove any drywall or add shims as needed to maintain plumb inside "A", install pan head screws to secure. Repeat for the outside flange "B" (See Figure 6). Remove the spreader bars.

Figure 6. Leveling and squaring the frame.



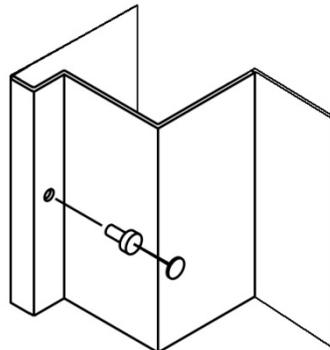
Where grouting is required in masonry installations, frames shall be braced in such a way that it will prevent the pressure of the grout from deforming the frame members.

Secure metal frame to studs after shimming using #8 Large Diameter screws (1-1/2" long in Leg "A", and 3/4" inch long in Leg "B" and across the header respectively). See figure

INSTALLING RUBBER SILENCERS

Install the rubber silencers into the door strike as shown in **Figure 7**.

Figure 7.



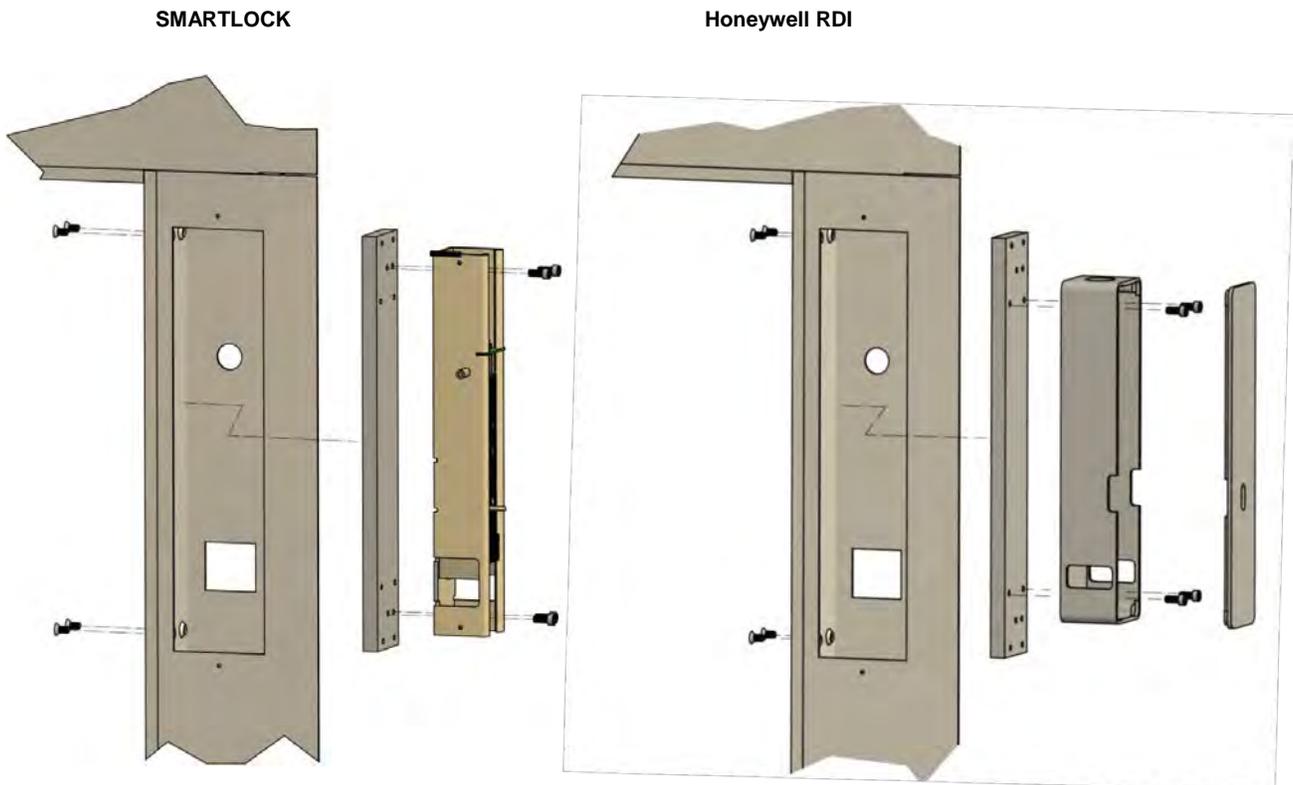
LOCK INSTALLATION

Installation of lock

Install lock mounting plate to lock using the 10-24 cap screws provided. NOTE: Position the mounting plate so that the mounting holes are closest to the outer face of the door. (Spin the plate 180 deg. top to bottom if needed to achieve the proper hole location.)

Position the lock into the frame ensuring the orientation of the lock mounting plate holds the lock against the outer face (door swing side) of the frame. If the lock is not against the inside face of the frame, remove the lock mounting plate and rotate it so that the top is on the bottom and replace into position inside the frame. Secure using the lock mounting plate to the doorframe using the 10-24 3/8" flat head screws.

Figure 9. Installation of lock.



Keeper and Keeper Plate

To mount the keeper to the keeper plate, use the 10-24 ½" pan head screw and the 10-24 lock nut.

Option A: RMEP SMARTLOCK, Waupaca lock (no door switch)

The mounting plate is universal (rotate for left or right hand mount), mount the keeper using the proper screws and nuts for the desired keeper. With the door installed and lock installed (do not attempt to mount the keeper plate before installing the lock or having the door properly hung) select the proper spacer (see figure 10). Position the keeper plate such that the keeper properly engages the lock (see lock documentation for the lock being used) and while holding the plate in position verify that the emergency key will fit and function. Mark the holes for mounting the keeper to the door. Double check the position of the keeper in the lock in relation to the marked door holes before drilling. After drilling the holes, use the 2-5/8" 10-24 screws and lock nuts to secure the keeper plate and spacer to the door. Use the second thin spacer as a back plate on the door to protect the door and back the lock nuts. After installation is complete install the adhesive cover plate into place to hide the screw heads and extra holes.

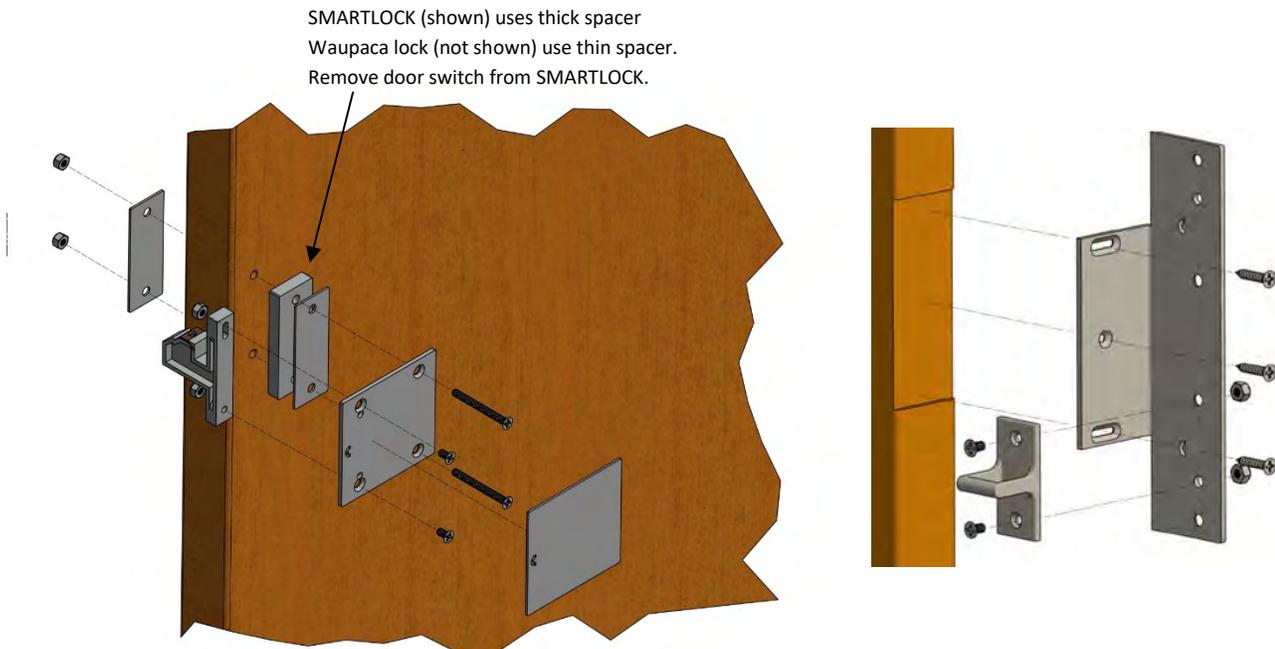
Option B: RMEP SMARTLOCK, Honeywell RDI (using door switch)

The keeper plates are universal for left and right swinging doors. Mount the keeper on the lower set of holes as shown in **Figure 10**. (The other hole is for the Honeywell RDI lock keeper.) Use the #9 flat head screw to mount the keeper plate to the door. Install the upper and lower #9 wood screw and adjust the position of the keeper so that the door latches and pushes the door closed switch. Tighten the two #9 wood screws and install the third #9 wood screw in the middle hole to secure the position.

Figure 10. Mounting the Keeper and Keeper Plate.

Option A: RMEP SMARTLOCK, Waupaca Lock

Option B: With Door Closed Switch (SMARTLOCK, Honeywell RDI)



DOOR OPERATOR

Controls and Connections

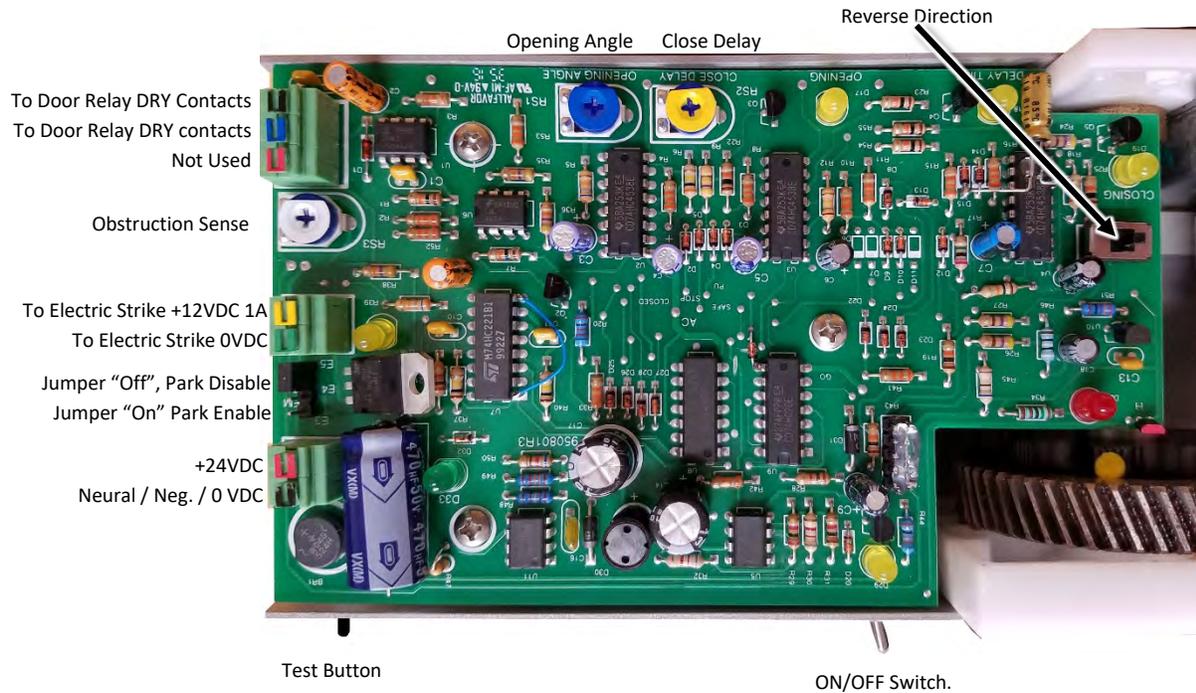


Figure 11. Controls and Connections

Operation

The RMEP hidden door operator system is designed to be a stealthy door operator that will function with the RMEP ¾" door frame.

The system uses a battery that is trickle charged to operate the system, reducing the load on the power supply and allowing operation during a power out emergency. The battery is charged even if the unit is switched off.

The operator has a 15-inch pound slip clutch that will allow the door to be opened or closed in the event of a power off situation and will allow the operator to "slip" if the door is blocked temporarily during the close cycle until the door can close. Obstruction sensitivity can be adjusted for door weight and some carpet drag.

The operator will actively attempt to close the door if opened manually without a door open signal.

Installation

***NOTE: THE HIDDEN DOOR OPERATOR WILL ONLY INSTALL IN A FRAME PRE-ORDERED FOR THE INSTALLATION OF THE UNIT. DO NOT ATTEMPT TO MODIFY AN EXSISTING FRAME TO ACCEPT THE OPERATOR.**

***NOTE: Before the installation of the door or elevator, it is best to pre-wire the systems before after the framing is complete and before the drywall is installed and before the walls are taped, mudded, and painted.**

***NOTE: For systems that do not have door operator dry contact outputs on the control board, relays can be used by wiring them in parallel with the corresponding door operator output or the floors door lock output. (See Figure XX.)**

****Pre-run a 4 wire (2 Pair) cable back to the controller for each landing that has an operator.**

Step 1: Remove the cover of the operator to be able to access the mounting holes.

Step 2: Install the mounting screws from the outside of the frame to the inside (screw head to the hallway). Have a second person hold the screws in place, or use a piece of tape to do the same.

Step 3: Position the operator over the screws and drop the operator shaft into the access hole in the top of the frame and install the nuts. Tighten the screw and nuts.

***NOTE: Be careful to not damage the ON/Off and manual operation switch when installing the operator.**

Step 4: Install the operator arm onto the shaft and tighten the end bolt to hold the arm in place.

***NOTE: The arm will not be held tight and will have an “up and down” play. This is normal.**

Step 5: Slide the door track onto the operator’s arm nylon guide. Use masking tape to hold it in place.

Step 6: With the door installed and hung in it’s final position and adjustments.

A: Use a torpedo level on the operator arm to hold it as level as possible.

B: Hold the track against the door and mark the depth needed to cut the top of the door to allow the track to sit in the door and be reasonably level.

Step 7: Remove the door and very carefully cut a 1.25” wide X 32” channel centered in the top of the door down to the level of the mark you made in Step 6. (Solid core doors are required by code, and should not present an issue with depth.)

Step 8: Verify the cut by installing the door track into the door. If needed remove the track and clearance the cut for a good fit.

Step 9: With the door track installed, mark the hoistway side of the door with the depth needed to be removed from the top of the door to allow the operator arm to access the door track. Remove the track and cut the hoistway side of the door only, leaving the hallway side at full length to hide the operator arm and track.

Step 10: Remove the screw holding the nylon guide onto the operator arm and slide the guide into the track. Be careful to retain the brass bushing.

Step 11: Install the track and use three 2" wood screws to secure the track onto the door. Reinstall the door.

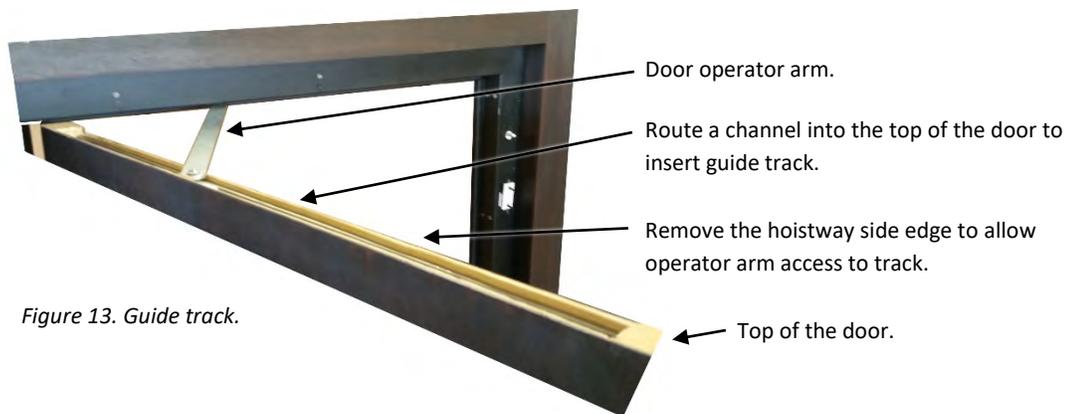


Figure 13. Guide track.

Step 12: Re-install the screw that holds the guide onto the operator arm, do not over tighten. Be careful to retain the brass bushing.

Step 13: Run the wires to the power and contact inputs on the operator control board.

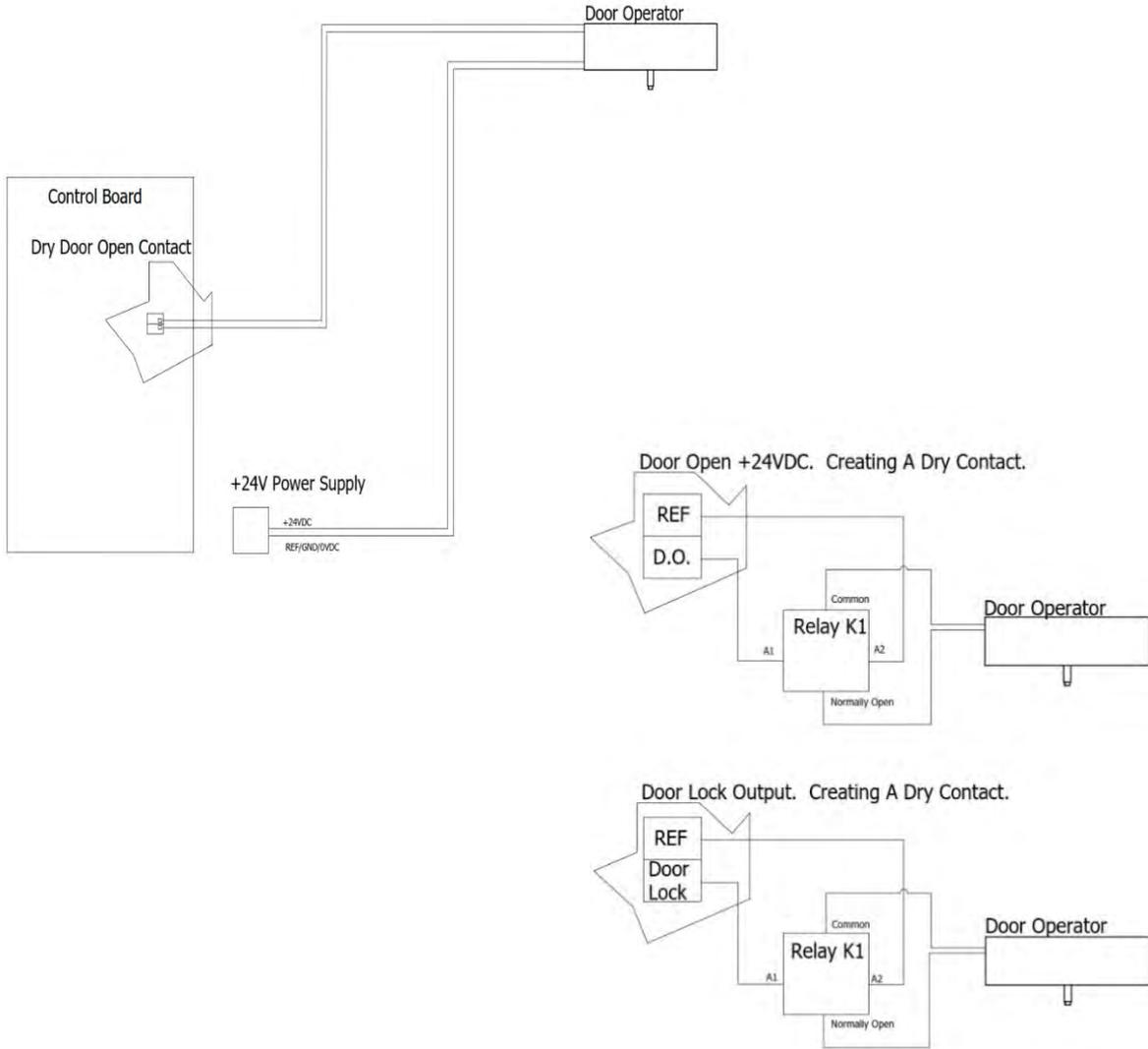
Step 14. Attach the 24v wires to the power supply in the control panel.

***NOTE: This unit only trickle charges the battery installed in each operator and will only pull a minimal current. The unit will function for about a day's usage on the battery. Verify that the battery charge light is lit before closing the unit's cover.**

Step 15: Attach the contact wires to the control board door operator outputs for that floor. You may need to program your controller to activate the operator, see your controller's manual on if this function is available and how to do this. If the controller does not have a dry contact for the door operator, attach a relay so that it is actuated by the door unlock signal for that floor. This will open the door when the lock is actuated.

A dry contact (no voltage, just a “switch” like action) is required for the signal to the door operator. If your controller does not provide a dry contact, you will have to create one with a relay. Connect the relay A0 and A1 (coil connections) in parallel with the associated floor door open signal or the associated floor door interlock signal. Connect the door contacts to Common and Normally Open on the relay. If the door stops and closes when opening, shorten the Door Interlock timer. Alternately you can place a delay open timer that will “open” after a programmable time and prevent the relay from being energized for too long.

Figure 14. Establishing a dry contact.



Adjustments

To adjust the closed position of the door a 5/64" Allen wrench is needed.

Step 1: Rotate the opening angle and the delay time fully counter clockwise (minimizes swing and hold open time).

Figure 15. Pot positions.



Step2: Locate the set screw on the door position ring (you may have to open or close the door to locate it). Free the door position ring by loosening the set screw with the 5/64" Allen wrench.

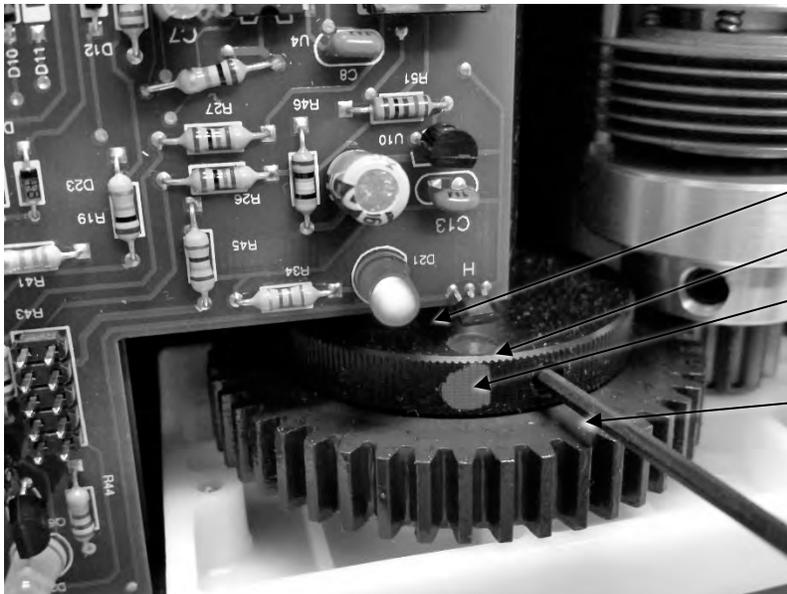


Figure 16. Door closed positioning.

Door Closed LED

Hall Effect Sensor

Door Position Ring (with magnet).

5/64" Allen wrench set screw.

Step 3: With the door position ring loose and maintaining the location of the set screw, close the door. Position the door position ring so that the mark and magnet line up with the hall effect sensor. Tighten the set screw and apply power to the unit.

Step 4: Press the manual operation button and allow the door to open, time out, then close. Observe the door position ring. When the door closes the LED nearest the door position ring should illuminate, signaling the door operator to stop. The door should shut tight and then when the door operator relaxes (Door position LED lit signaling the unit to deactivate) the red LED should stay on.

***NOTE: IF the unit closes the door and the door opens slightly then actively closes and continues to cycle in that manner, adjust the latch on the door and/or the door position ring. If the latch is properly adjusted, adjust the door position ring slightly to allow the door to relax and keep the Door Closed LED illuminated.**

Step 5: Adjust the opening angle by turning the opening angle potentiometer clockwise, press the manual operation button and observe the angle of the door at full open, allow the door to close. Adjust the opening angle potentiometer if needed to achieve desired opening.

Step 6: Adjust the close delay clockwise to increase the time the door is held open.

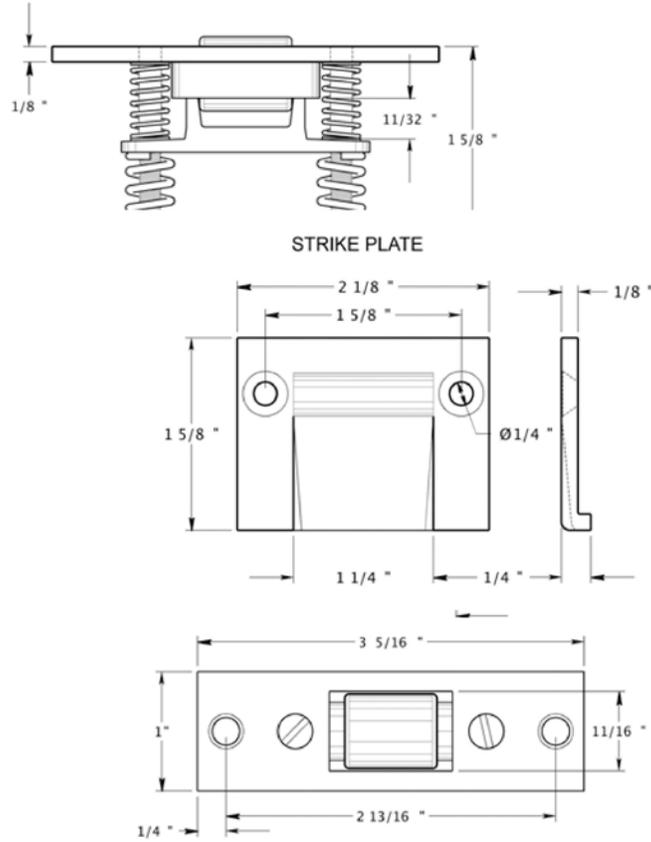
Step 7: Test the unit's operation from the control board. If the unit does not operate from the control board, but functions using the manual button; check the wires, programing on the control board, and any relays.

INSTALLER NOTES

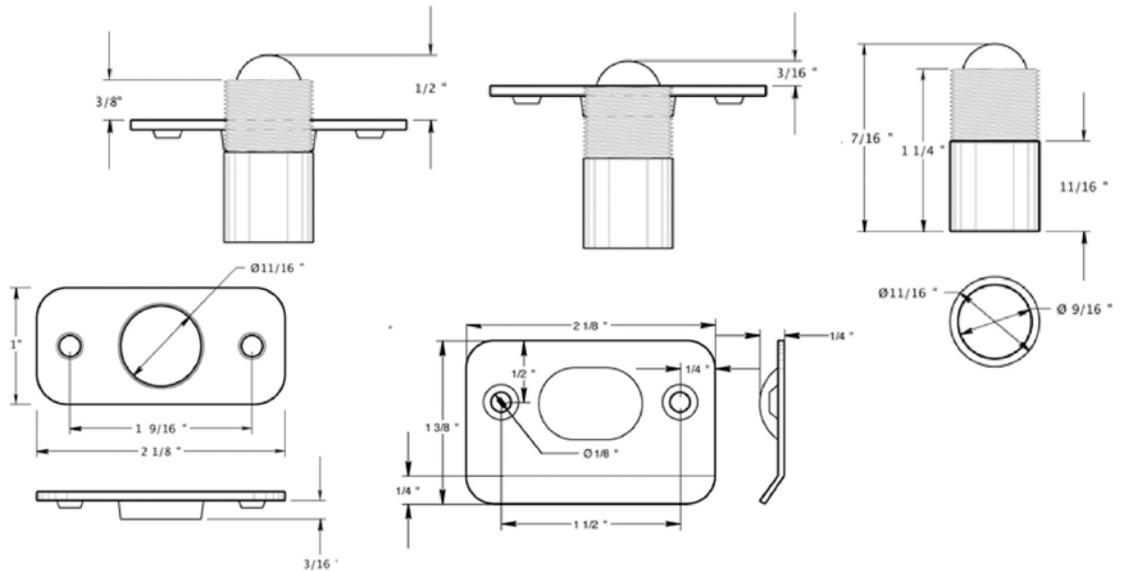
APPENDIX A

Roller/Ball Latch Installation

DEL-RCA430 Roller Catch



DEL-BC218R Ball Catch



Pre-installation:

1. Determine the style of RMEP latch provided, or locate the installation instructions for a non RMEP provided latch. **(RCA430 Shown in Figure 1.)**
2. Cut the doors' lock stile to clear the roller type used.
3. Cut the door jamb to accept the roller strike plate accompanying the roller latch.

Installation:

1. Ensure clearances allow free movement of roller or ball latch.
2. Secure latch into lock stile with the two (2) provided screws.
3. Install strike plate into door jamb with the two (2) provided screws.

Adjustment:

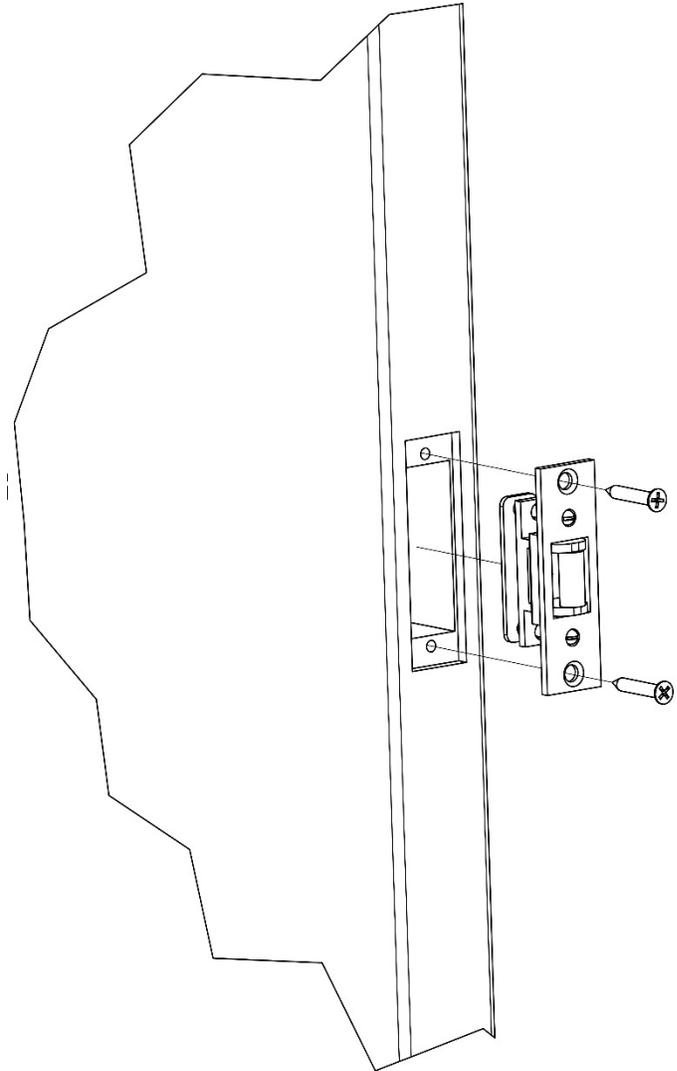
1.
 - a. RCA430 – Adjust tension using the two adjustment screws on either side of the roller.

***Note: Spring plate can come loose if tension screw is backed off too far. Remove unit and reattach.**

BC218- Adjust tension by removing the unit from the door and using a large flathead screwdriver on the back side of the ball latch. Adjust clearance to the Strike plate by turning the entire barrel. Replace the unit and test.

***Note: All units listed.
Clockwise- More tension
Counter Clockwise – Less tension.**

Figure 1.



APPENDIX B

J-Handle Installation

Installation

1. Install the J handle 34 to 36 inches above the floor and centered 2-3/8" to 2-2/4" back. **The J handle is large enough to cover a standard existing door knob hole.**
2. Place the J handle pull in place and mark one screw hole.
3. Pre-drill the hole
4. Set handle in place with the one screw hole and one screw.
5. Square the handle to the edge of the door using a square.
6. Mark the other mounting hole and pre-drill.
7. Secure the handle with the second mounting screw and tighten both screws to secure.

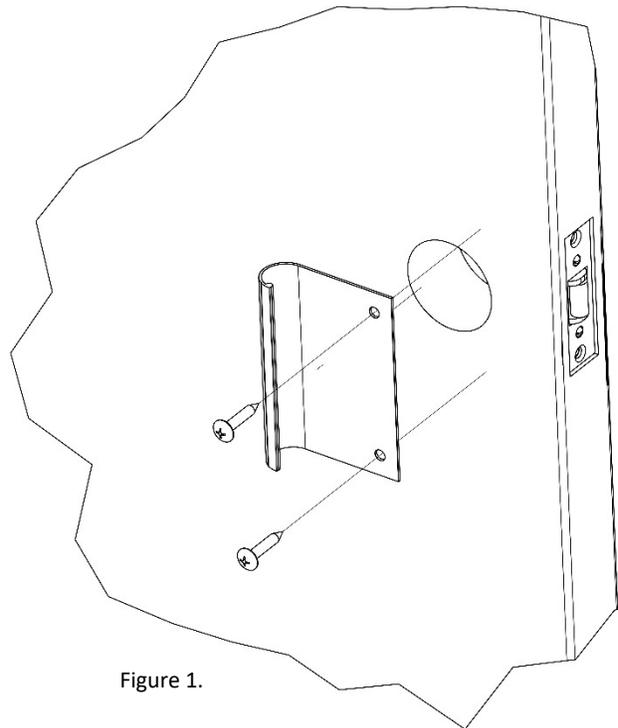
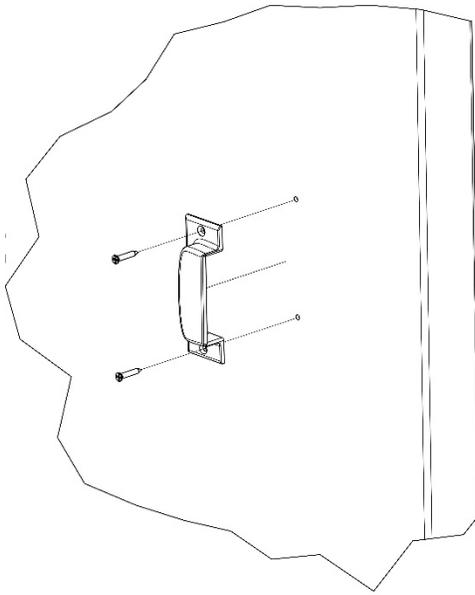


Figure 1.

Appendix C

Finger Pull

Figure 1.



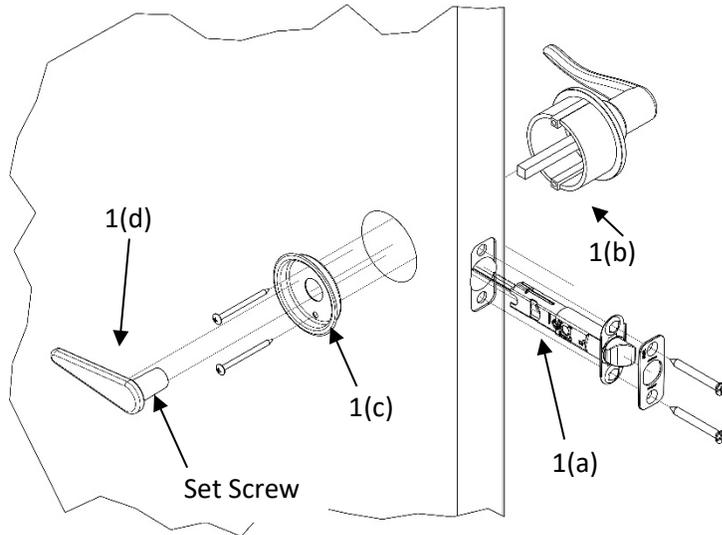
Installation of the low profile finger pull.

1. Verify hole spacing on the hardware provided.
2. Position the handle centered approximately 34 to 36 inches above the floor on the door and centered 2-3/8" to 2-2/4" back.
3. Mark the upper hole. Using a square, mark the lower hole at the verified distance below the handle.
4. Pre-drill the holes and mount the handle with the provided screws.

APPENDIX D

Turn Handle Installation (*NOTE: TURN HANDLE CAN NOT BE USED WITH DOOR OPERATOR)

Figure 1.

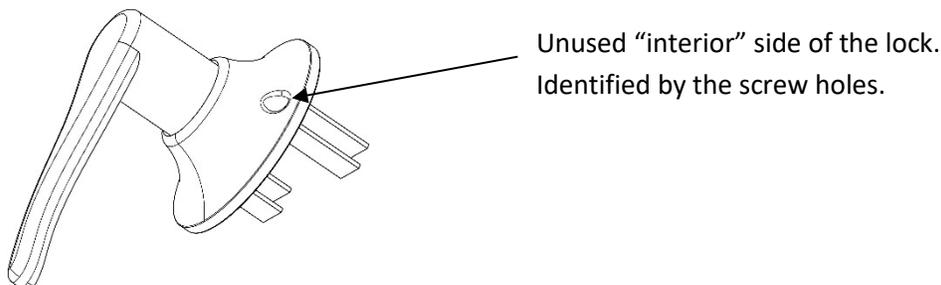


Installation

*Note: Schlage Lock used, 5/16" X 5/16" spindle size only. Other locks may be used; spindle may have to be trimmed. Using a standard bore of 2-1/8" centered 2-3/8" to 2-2/4" back (depending on the latch description) and 34" to 36" high.

1. Install latch assembly **1(a)** into lock stile.
2. Set "unused" interior (**Figure 2**) side of latch set aside. This part will not be used. It is identified by the screw holes on the "rose" or "skirt" of the handle.
3. Set the exterior part **1(b)** of the lock in place, ensure the spindle is engaging the latch assembly properly.
4. Place the recessed cup **1(c)** in place of the "interior" knob. The spindle will protrude through the center hole. Secure the assembly in place with the provided screws.
5. Set the low profile turn handle **1(d)** onto the spindle, secure using the set screw that is located on the shaft of the turn handle.
6. Install the strike plate into the door jamb and adjust for proper closure. Test the turn handle from both sides.

Figure 2. Unused handle.



Appendix E

Smart Lock

- I. We recommend you purchase the installation kit from Rocky Mountain Elevator Products. The kit comes with a jig and special drill bits designed to produce a perfectly aligned installation every time.
- II. When using the lock as a jig, remember to insert the door keeper to get the proper spacing between the lock and door.
- III. Remove the lock's cover by taking the two screws out. The covers should pop off. (To change the handing take out all four screws and flip the cover to the correct hand. Then reinstall the two screws that do not hold the cover).
- IV. When installing the lock on a four wire system install a jump wire between terminals 2 and 3 and use terminals 1 and 4 for door closed/locked safety current.
- V. We recommend a fire rated, 8 conductor, 18 AWG. stranded wire, using seven wires and keeping one for spare.

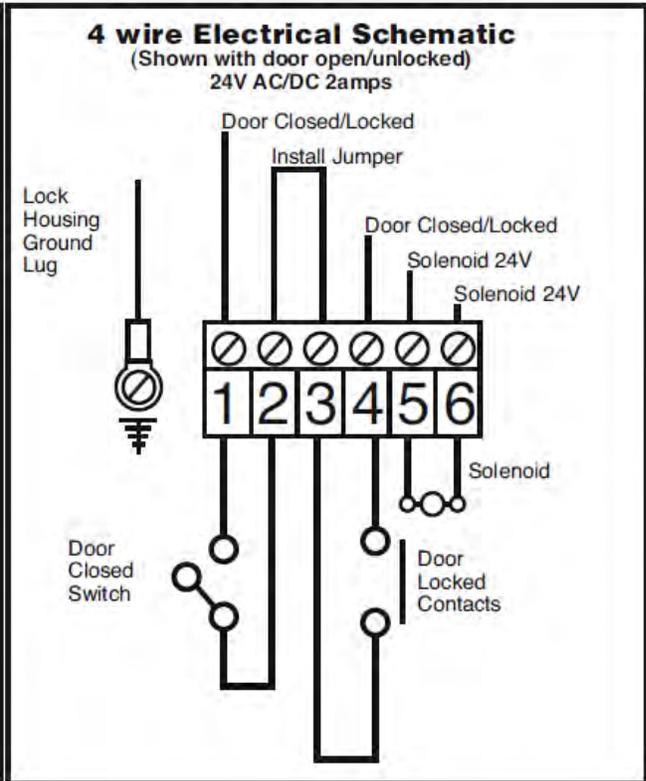
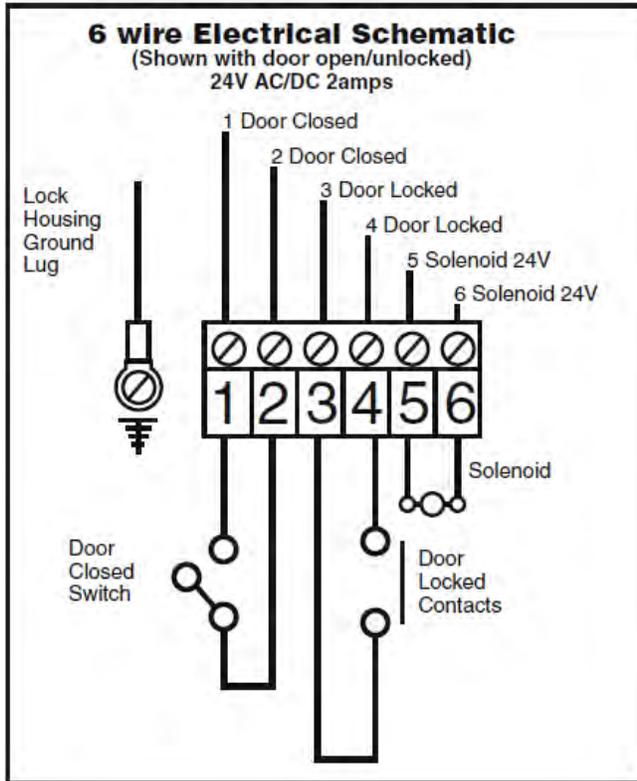
BEFORE YOU START

MAKE SURE ALL POWER HAS BEEN DISCONNECTED.

1. The entire door's hardware should have already been installed so that the latching hardware will hold the door in its final position.
2. Pick the appropriate doorswing: RH for Right Hand, LH for Left Hand door.
3. Slide the jig/lock up against the top of the jamb and over until it touches the closed and latched door.
 - A. For doors over 6' 8" we recommend the lock be installed at 80" so that it can be reached for manual unlocking from outside the hoistway without needing a ladder.
4. Mark and drill only the slotted holes on the lock with a 1/8" bit.
5. Mark and drill the slotted hole in the door keeper with a 1/8" bit.
 - A. For solid wood doors drill about 1" and use the #8 x 1" screw.
 - B. For hollow doors drill all the way through the door and use the 1 1/2" #8 machine screw with the threaded post.
6. Mark and drill the E-Key hole using the long 1/8" bit. Drill all the way through the door.
7. For a wood door, use the 3/4" forstner bit, center the bit in the predrilled 1/8" E-key hole and drill a little over half way through the door. Then drill the remainder of the hole from the other side of the door. This is done in order to prevent splintering the door.
8. For a steel door, use a step bit and stop at 3/4" on both sides of the door.
9. Place the plastic ring on the inside and snap the white lunar key plug on the outside of the door. The white plastic plug will be flush with the door and can be painted or stained. On finished doors use a brown colored magic marker to blend in the plug.
10. Lock wires can be pulled through hole in back of lock or through the top by drilling through plastic cap. Be sure and remove cap before drilling.
11. Mount the lock using the slotted holes with two #8 x 1" screws.
12. Mount the door keeper with one #8 x 1" screw.
13. Close and open the door (by manually unlocking), making sure the keeper clears the bottom and sides of the lock housing and that the keeper smoothly lifts the silver slider up when closing the door and drops into the throat portion of the door keeper. The face of the keeper should be slightly touching the front of the lock and parallel to the lock. The bottom of the keeper and the lock should be flush with each other.
14. The locking slider should drop far enough to keep the door from opening (1/4" min.) and the slider's contacts should be touching the keepers contact plate evenly.
15. Once all adjustments have been made, drill and install the final screws in the un-slotted holes. This will keep the adjustment from moving. At this time a ground terminal is provided and installed with the #8 x 1" screw, grounding the lock housing.
16. Once the final screws have been installed, test to make sure that everything operates smoothly by opening and closing the door.
17. Pull the field wires out enough to strip 3/4" of sheathing and wire the male plug (provided). See enclosed wiring diagram.
18. Alternate wiring method: some may want to snap the plug into the board, and then install the wires. Make sure the power is turned off.
19. Gently plug the male plug into the female plug on the locks interface board making sure the wires are neatly tucked into the lock.

VII. Do's and Don'ts:

- a. Never work/adjust lock with power on.
- b. Never file on lock.
- c. Never file on keeper.
- d. Never pinch wires.
- e. Never mount lock with less than 4 screws.
- f. Never mount lock on uneven surface.
- g. Always practice safety.
- h. Always install ground terminal to lock's housing.



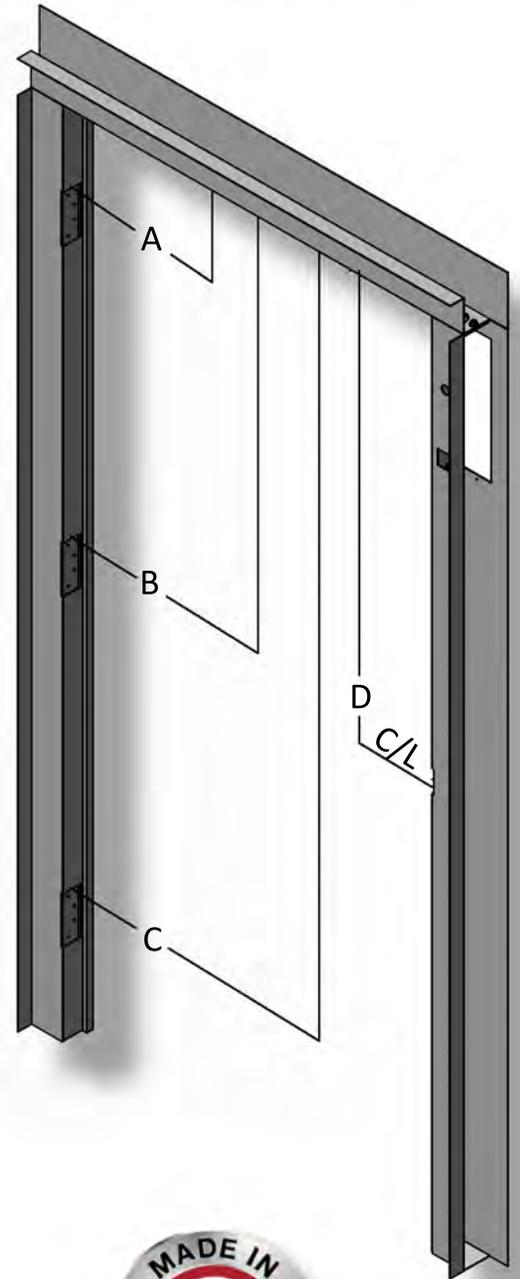
For assistance, please contact Rocky Mountain Elevator Products at: 1-866-482-4472 during normal business hours. (8am-5pm MST)



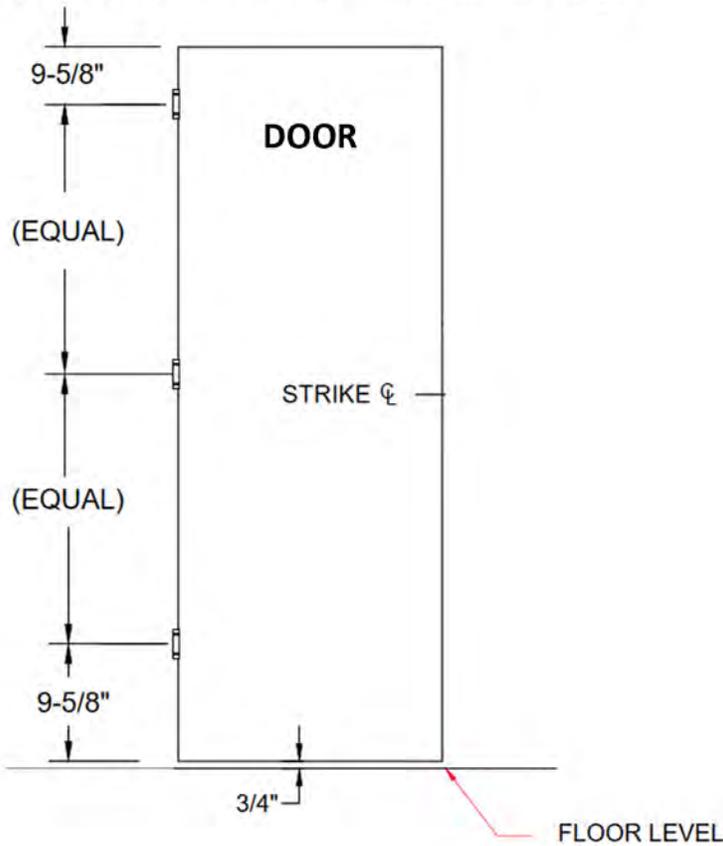
RMEP 3/4" DOOR FRAMES HINGE SPACING

Hinge location in chart is from top of jamb to top of hinge.
Strike location is measured from top to C/L.

FRAME HINGE POSITION FOR DOOR HEIGHT				
4.5" Hinge	6'-8" (80")	7'-0" (84")	7'-6" (90")	8'-0" (96")
Hinge 1(A)	7-1/2"	7-1/2"	7-1/2"	7-1/2"
Hinge 2(B)	37-7/16"	39-7/16"	42-7/16"	45-7/16"
Hinge 3(C)	67-3/8"	71-3/8"	77-3/8"	83-3/8"
C/L Strike(D)	39-11/16"	43-11/16"	49-11/16"	55-11/16"



Standard **door** hardware location to center of hinge.



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RMEP 3/4" DOOR FRAMES

Designed to install from inside the hoistway eliminating the standard trim that protrudes into the hoistway. Frames are mounded over the drywall inside the hoistway. Installs from inside the hoistway allowing any wall depth. Outside frame can be drywalled over or covered with trim.

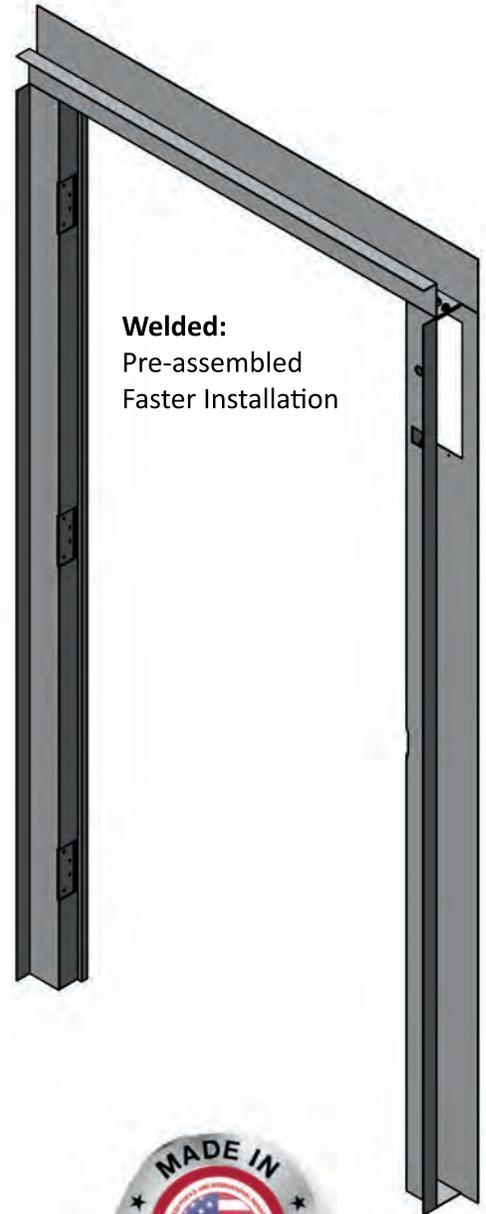
Compliant with 2016 changes to ASME Code in section 5. Proposals

5.3.1.7.2 Clearance between hoistway doors and landing sills. The distance between the hoistway doors and the hoistway edge of the landing sill shall not exceed 19mm (0.75in)

Technical Data:

- FINISH: Rust inhibitive baked-on grey primer per ANSI A250.1
- MATERIAL: A60 Galvannel
- HARDWARE PROVISIONS:
 - Frames are prepped for 1 $\frac{3}{4}$ " thick doors
 - Hinges are prepped for 3 - 4 $\frac{1}{2}$ " standard hinges
 - Strike: Roller latch style RCA430U15
 - Prepped for SMARTLOCK or Honeywell Electric interlocks
 - Rubber Silencers: 3 per strike jamb
 - Labeled frames available from 20 minutes to 90 minutes

Optional Concealed Auto Door Opener!



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