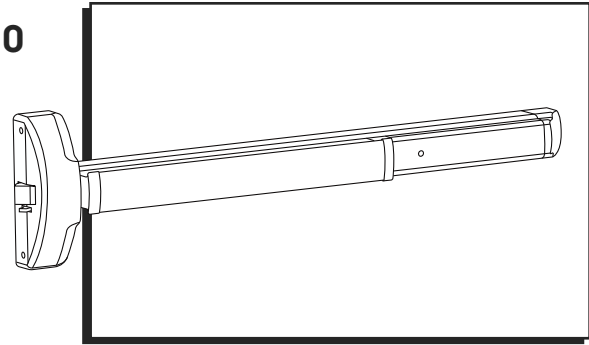



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 Two Person Assembly
Recommended

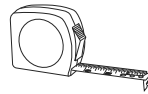
TOOLS NEEDED



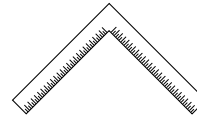
1/8" Allen Wrench
(Included)



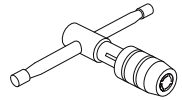
Drill



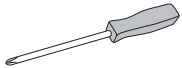
Tape Measure



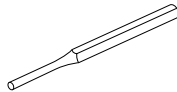
Square



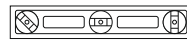
Tap Wrench



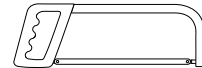
Phillips
Screwdriver



Center Punch



Level



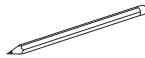
Hacksaw



Metal File



Masking Tape



Pencil

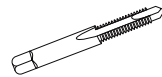
METAL DOOR INSTALLATION



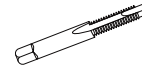
#7 Drill Bit



#26 Drill Bit



1/4-20 Tap



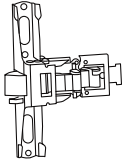
#10-24 Tap

**WOODEN DOOR
INSTALLATION**



11/64" Drill Bit

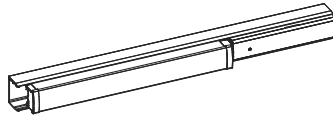
PARTS



Center Case x 1



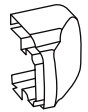
Center Case Cover x 1



Mechanism Case x 1



End Cap Bracket x 1



End Cap x 1



Strike x 1



Shim x 2



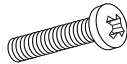
Locking Plate x 1



#10-24 x 3/4" Phillips Flathead Machine Screw x 3



#8-32 x 1/4" Phillips Flathead Undercut Machine Screw x 2



1/4-20 x 1" Phillips PanHead Machine Screw x 4



#10-24 x 1/2" Phillips Round Head Machine Screw x 1



#10 x 1-1/4" Phillips Flathead Wood Screws x 4



Dogging Key x 1

SAFETY



Follow all cautions, notes and warnings presented in these instructions.



CALIFORNIA WARNING: This product can expose you to lead which is known to the state of California to cause cancer and birth defects or other reproductive harm. See www.P65Warnings.ca.gov.



WARNING! Any retrofit or other field modification to a fire-rated opening can potentially impact the fire rating of the opening, and Uline makes no representations or warranties concerning what such impact may be in any specific situation. When retrofitting any portion of an existing fire-rated opening or specifying and installing a new fire-rated opening, please consult with a code specialist or local code official (authority having jurisdiction) to ensure compliance with all applicable codes and ratings.

SETUP

- Unpack and verify components received using the parts list and exploded view.
- Read all instructions before installing this device.

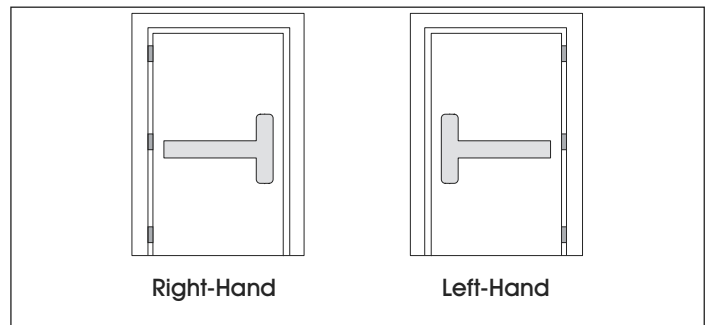


IMPORTANT! Verify the door, function, finish and size before installation. This device is designed only for new 30" or 36" metal or wood, free-swinging doors.

- Ensure door is plumb and level. Check that the hinges are secure and not missing hardware.
- Door must swing freely.
- Door must be free of raised projections.
- Fully open the doors to ensure doors do not hit floor as they swing.
- Determine if door is reinforced. Doors and frame thickness must have three full screw threads to be considered reinforced.



Right-hand installation is shown throughout instructions.



INSTALLATION

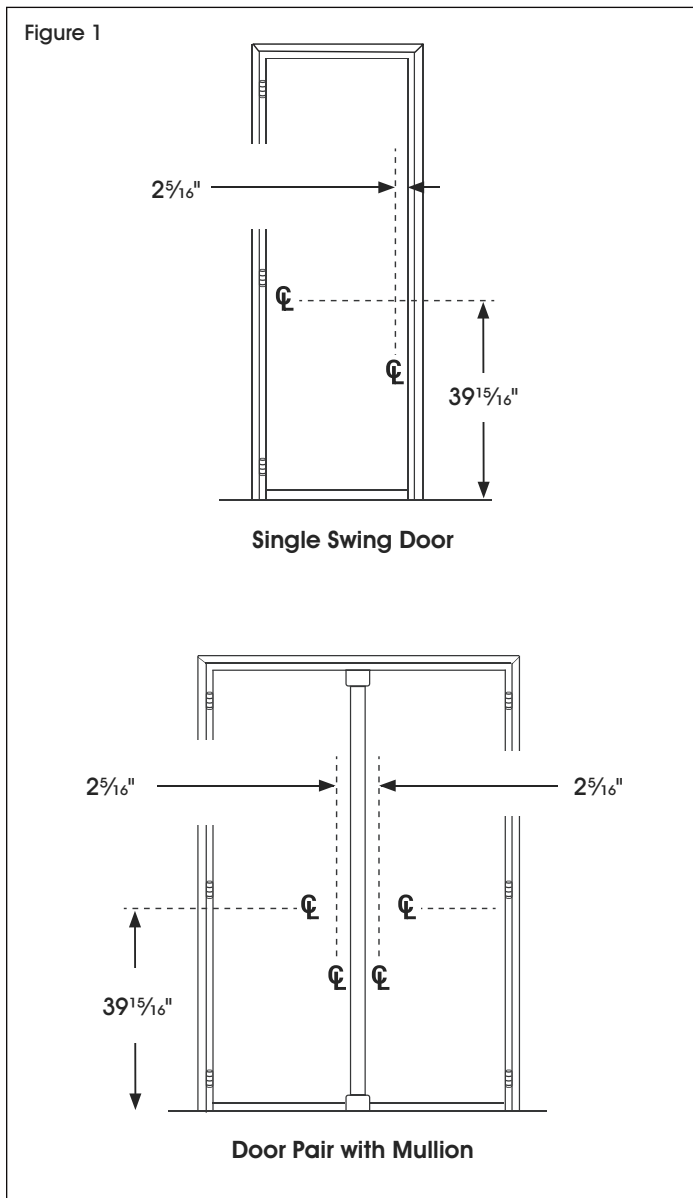
DOOR AND FRAME PREPARATION

1. With door closed, locate and mark horizontal centerline (☒) and vertical centerline (☒). (See Figure 1)

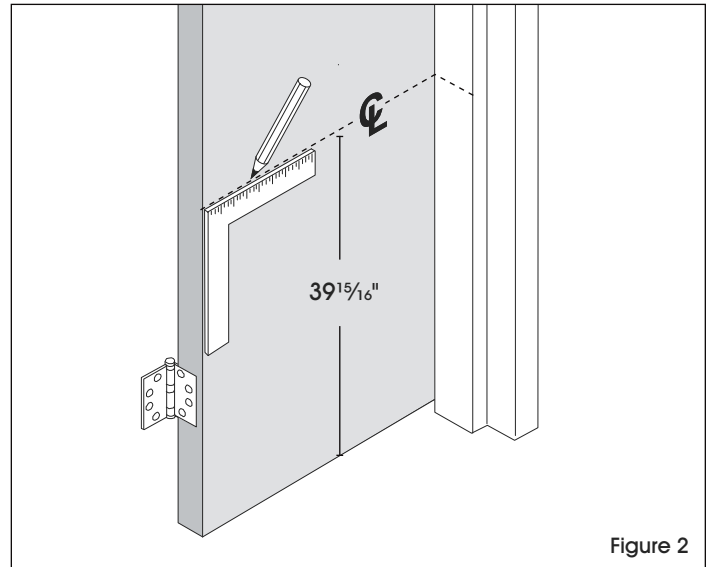
 **NOTE:** Standard rail centerline height is $39\frac{15}{16}$ " above the finished floor.

 **NOTE:** If factory prepared cutouts with field drilled mounting holes are in the door, skip to Trimming Exit Device on page 8.

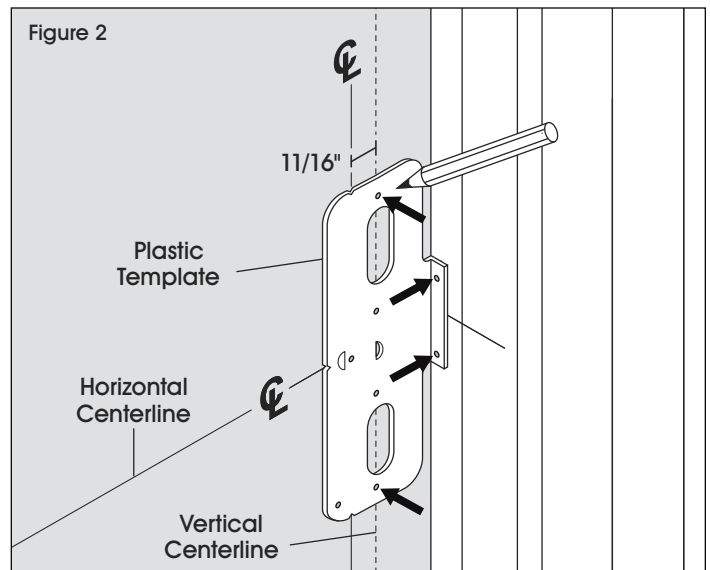
 **NOTE:** If the door and frame need to be prepared in the field, continue to step 2.



2. Mark the horizontal centerline $39\frac{15}{16}$ from finished floor. (See Figure 2)



3. With the door closed, position the plastic template on door and frame. Align horizontal notch on template with the horizontal centerline. Locate vertical reference notches. Measure $11/16$ toward the edge of the door. This is the vertical reference line for the device and should pass through the two holes in plastic template. (See Figure 3)
4. Mark the door and frame according to the plastic template. (Figure 3)



INSTALLATION CONTINUED

5. Drill and tap holes at previously marked locations for the center case and strike. (See Figure 4)



IMPORTANT! For drill/bit information, see table below.

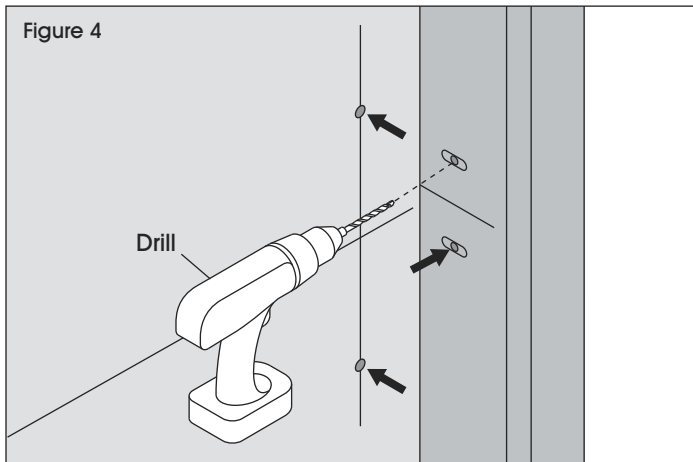
HOLE	DOOR/FRAME	FASTENER	PREPARATION
CENTER CASE	Metal Reinforced	1/4-20 x 1" Phillips Pan Head Machine Screw	Drill: #7 Tap: 1/4-20
	Solid Hardwood	10 x 1 1/4" Phillips Flathead Wood Screw	Pilot Hole: 11/64" 1 1/4" deep
STRIKE	Metal Reinforced	#10-24 x 3/4" Phillips Flathead Machine Screw	Drill: #26 Tap: #10-24



NOTE: Unreinforced frames (total wall thickness less than 1/8") require 10-24 blind rivet nuts (not included) to bolt the strike.

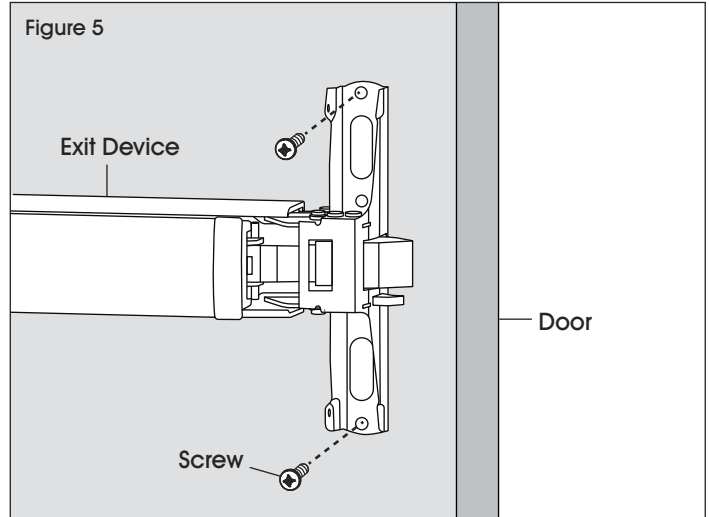


NOTE: Do not install shim on this step.

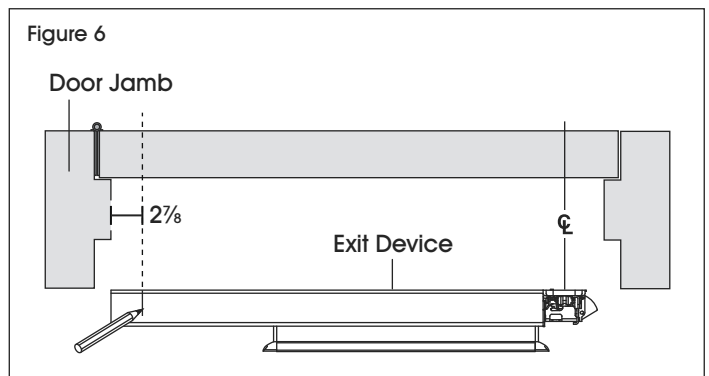


6. Align exit device on door through the previously drilled holes. Attach center case to the door using two previously prepared screw holes and Screws. (See Figure 5)

- a. For metal doors, use 1/4-20 x 1" Phillips pan head machine screws.
- b. For wood doors, use #10 x 1 1/4" Phillips flathead wood screw.

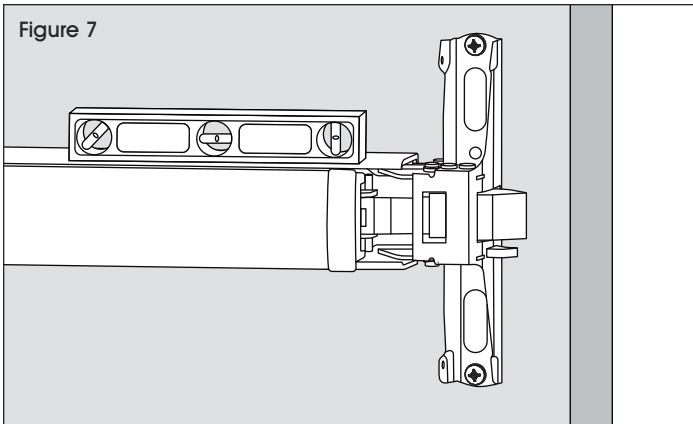


STOP If gap between bar and door stop (stop surface) is less than 2 7/8" bar must be cut to size. See **Trimming Exit Device** on page 8. (See Figure 6)

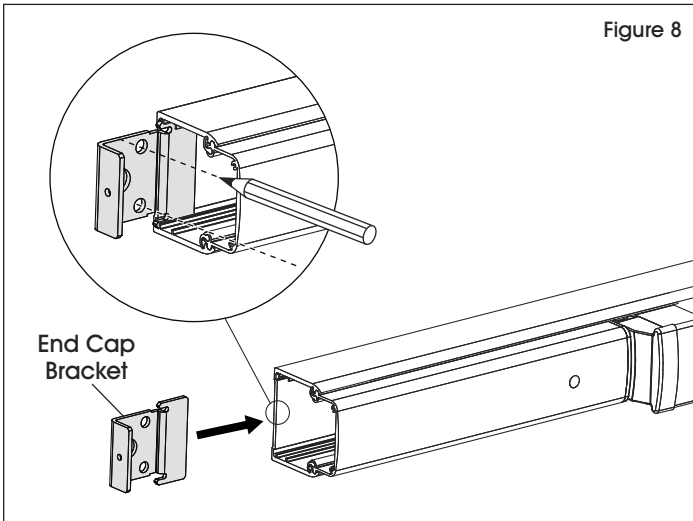


INSTALLATION CONTINUED

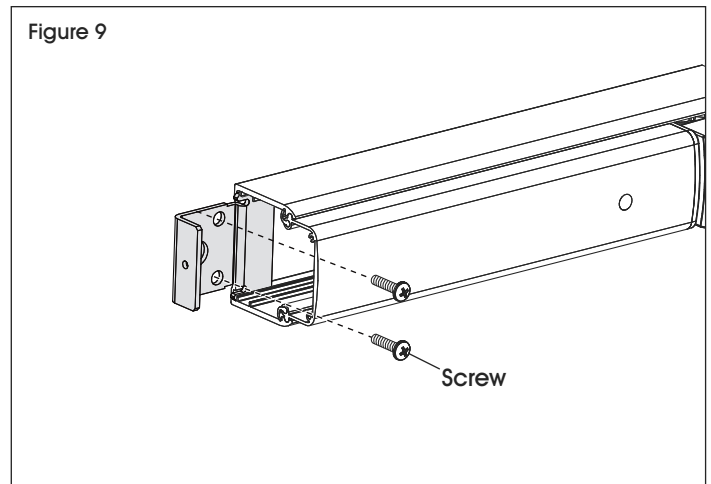
7. Once center case screws are installed, use level to ensure exit device is level. (See Figure 7)



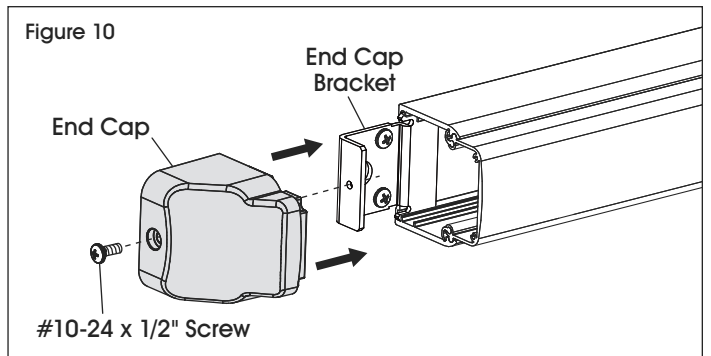
8. With device level, insert end cap bracket into mechanism case. Ensure rear clamp is pushed flush against device. Locate and mark two holes. (See Figure 8)



9. Remove end cap bracket and drill two holes at previously marked locations.
- a. For metal doors, use #25 drill bit and #10-24 tap.
 - b. For wooden doors, use 11/64" drill bit and drill pilot hole 1/4" deep.
10. Reinsert end cap bracket into device. Secure end cap bracket with screws. Fully tighten all device screws. (See Figure 9)
- a. For metal doors, use 1/4-20 x 1" screws.
 - b. For wooden doors, use #10 x 1-1/4 Phillips flathead wood screws.



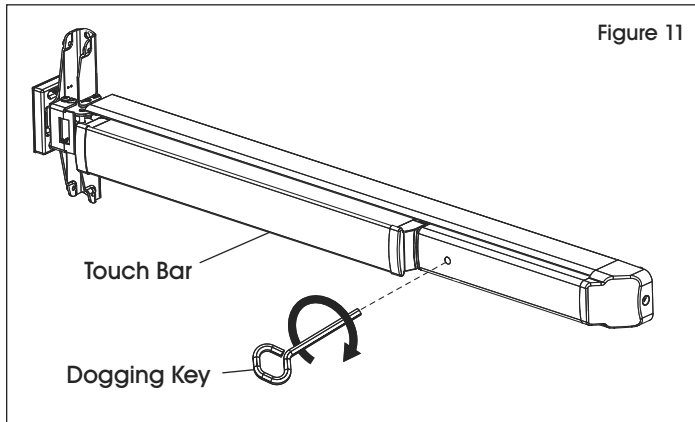
11. Slide end cap over end cap bracket and secure with #10-24 x 1/2" screw. (See Figure 10)



INSTALLATION CONTINUED

CHECK FOR PROPER FUNCTION

- The latch will retract when the touch bar is pressed. Release and the latch will return to the original position.
- While pressing the touch bar, turn the dogging key clockwise. Release the touch bar and the latch will remain retracted. (See Figure 11)

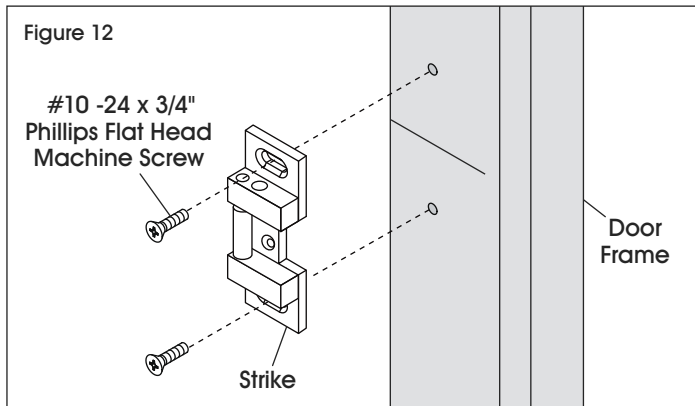


- While pressing the touch bar, turn the dogging key counterclockwise. Release the touch bar and the latch will return to the original position.

NOTE: If operation is faulty, check first for visible binding or interference. If there is no apparent reason for the fault, remove the device from the door and recheck its operation before assuming it is defective.

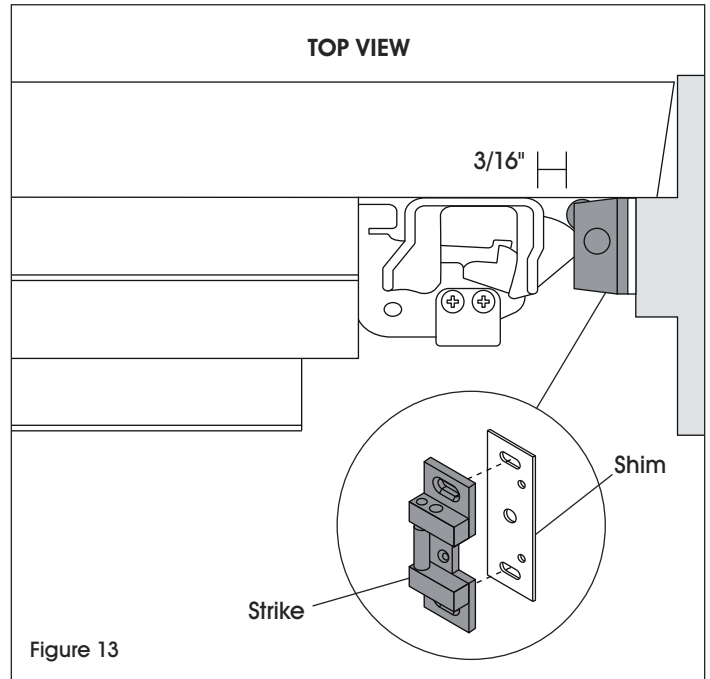
- Loosely secure strike with #10 -24 x 3/4" Phillips flathead machine screws in previously drilled holes in door frame. (See Figure 12)

NOTE: Save remaining third screw.

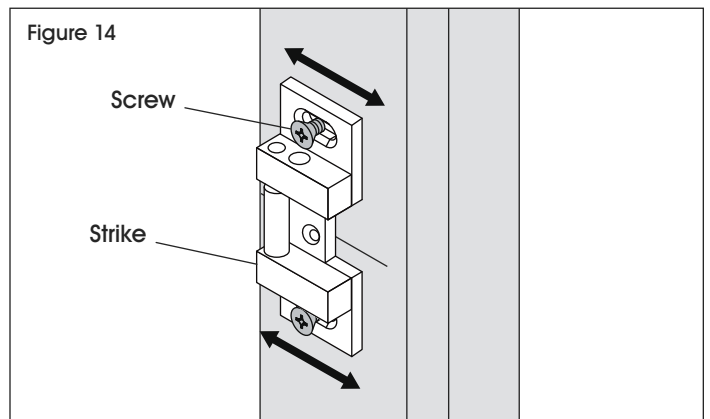


- Close door and check for proper engagement with latch and strike. (See Figures 13)

NOTE: There should be 3/16" of space between strike and exit device latch. If there is more than 3/16" gap, include shim as needed.



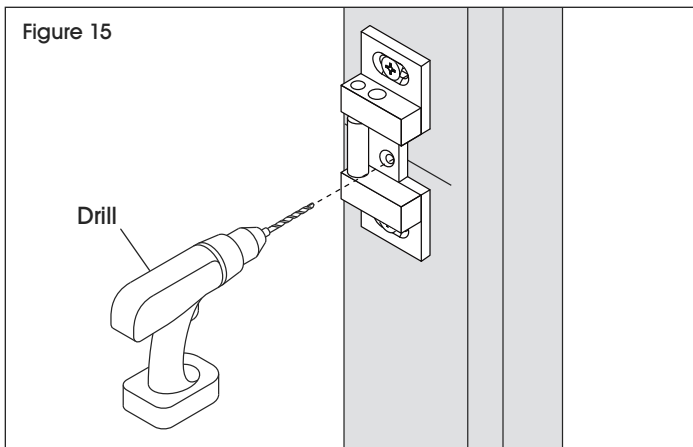
- Open door and adjust strike depth as needed. Fully tighten screws when done. (See Figure 14)



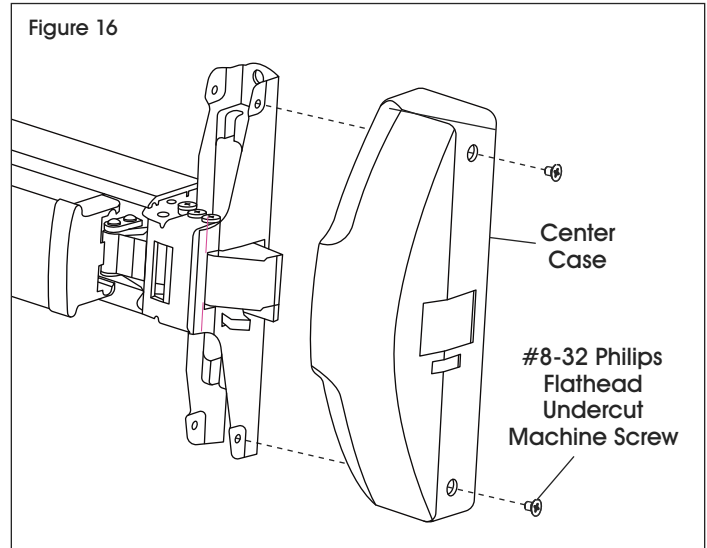
INSTALLATION CONTINUED

CHECK FOR PROPER FUNCTION.

- Latch will retract to clear strike when touch bar is pressed.
 - Latch will re-engage with the strike when touch bar is released and door is shut.
 - Door will remain latched and not rattle when pushed, pulled or shaken.
 - Once proper engagement is confirmed, fully tighten strike screws.
15. Drill, tap and install strike center screw. Use remaining #10 -24 x 3/4" Phillips flathead machine screw from step 14 to secure. (See Figure 15)




16. Check and inspect operation of:
- Trim and device
 - Strike plate and latch engagement
17. Secure center case cover with two #8-32 Phillips flathead undercut machine screw. (See Figure 16)



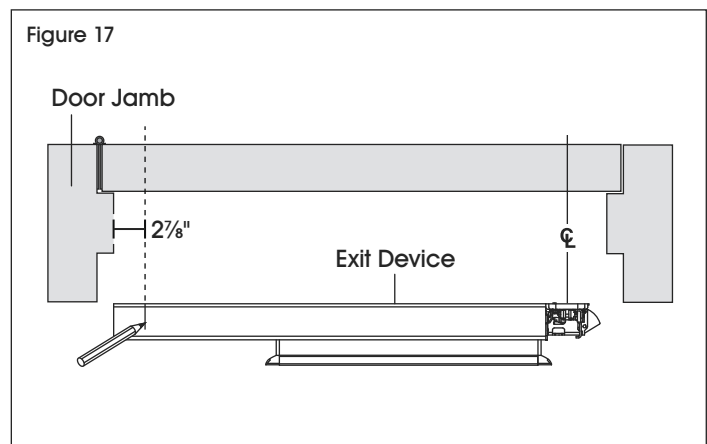
ADDITIONAL INSTRUCTIONS

TRIMMING EXIT DEVICE

1. Measure a cut line that allows for 2 7/8" of space between exit device and door jamb. (See Figure 17)

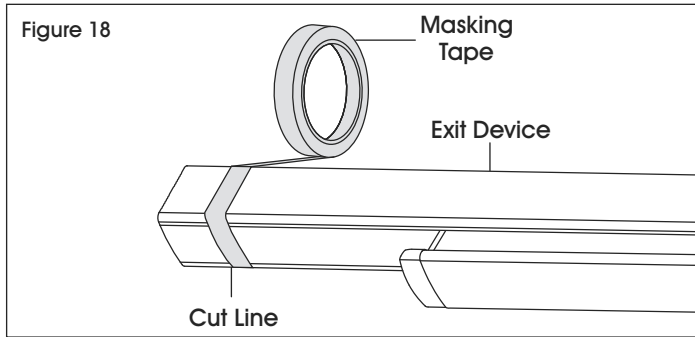
 **NOTE:** Before marking, ensure there is no gap between the end cap and mechanism case when it is in place.

 **NOTE:** Dogging hole must be a minimum of 1 5/8" away from the cut end of the device.

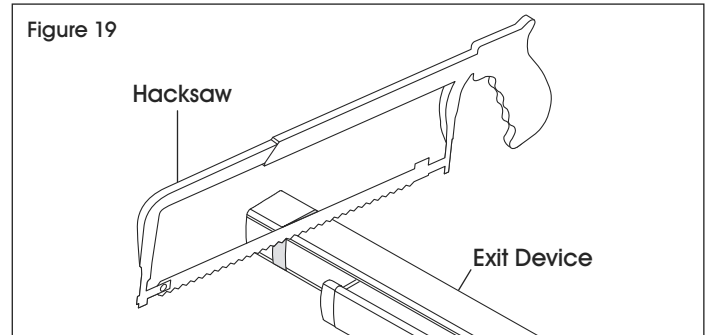


ADDITIONAL INSTRUCTIONS CONTINUED

2. Mark proper cut line on all four sides of the exit device in pencil.
3. Align masking tape with the edge of the pencil mark to create a clear cutting guide across each side of the exit device. (See Figure 18)



4. Use a hacksaw to cut the end of the exit device. Use a metal file to remove any burrs. (See Figure 19)



MAINTENANCE

- Periodically remove covers, inspect and coat mechanisms with a silicone base lubricant. This is required for proper functionality in corrosive environments.
- Check mounting fasteners periodically and tighten if loose. Apply screw locking compound or change part fasteners if screws continue to back out.
- Periodic checks (and adjustments) of strikes are required to compensate for wear and tear (e.g. door sagging).

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