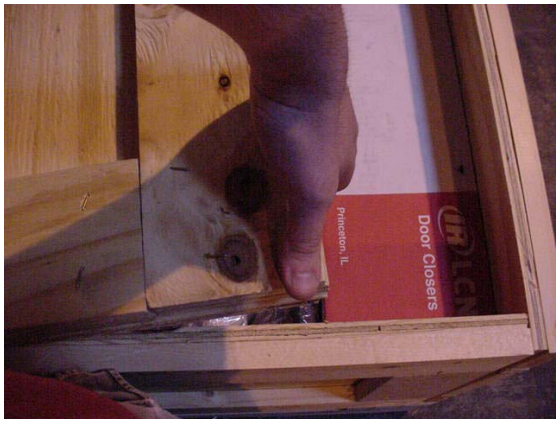
Door Installation

To start off, take the sealed door crate and place in near the door opening that it will be placed in. If the door has gap covers than it also contains a flange and will have to be installed from the attack side.

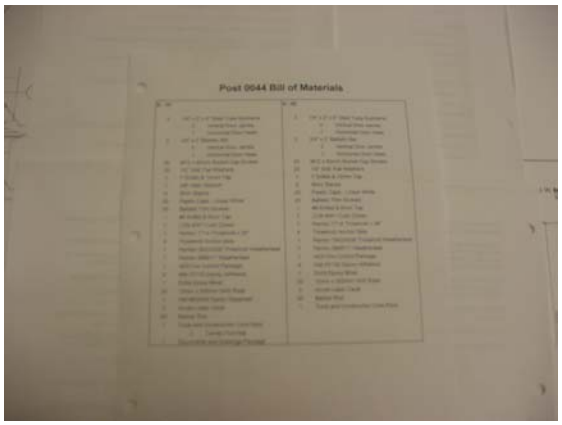
Cut the band straps that are around the door crate.

Pry the lid of the crate off with a crowbar and place lid aside.

Remove the contents of the cavity of the crate and lay out on floor.



All parts and components should be then checked against the master bill of materials list included with the installation manual.



Once all parts are accounted for, you can proceed with the installation of the door.

SEE DOOR SUBFRAME INSTALLATION

Check the tube opening at this point making sure it is approximately ½" wider and ¼" taller than the frame.

Adjust the opening if necessary.

Remove the side and end walls of the door crate.

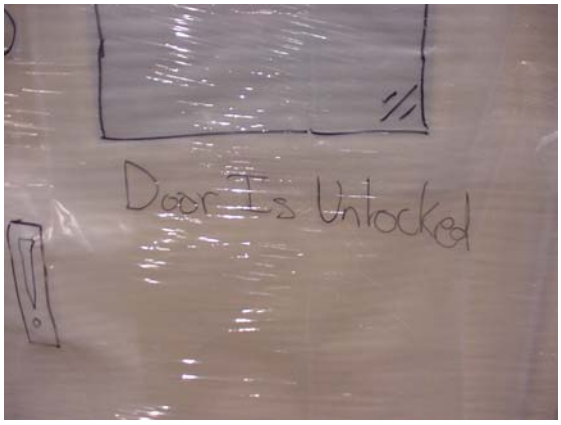
Look into the top of the head of the frame. You will see holes to gain access to electric devices that are mounted on the doorframe.

Select a side of the opening that will enable the easiest route to the access panel. Determine how to bring in the power supply.

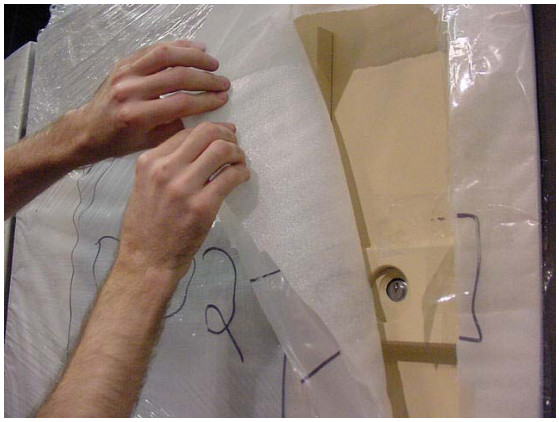
It is recommended that you do not dismantle the door from the frame during installation. Instead, you will need 4-5 individuals who can handle 800 lbs./363 kg collectively. If installing a double door, you will need 7-8 individuals who can handle 1400 lbs./636 kg collectively.

Lift door unit upright out of crate.

Lock forced entry locks through foam and plastic.



Remove foam and plastic covering door.



If the door has ballistic gap covers, there should be a full header bar extending across the top of the secure side of the door that will prevent you from placing the door in the opening. Before you install the door into the opening you will need to remove this bar by unscrewing the ¼-20 flat head machine screws.

Walk door into place in the frame opening.

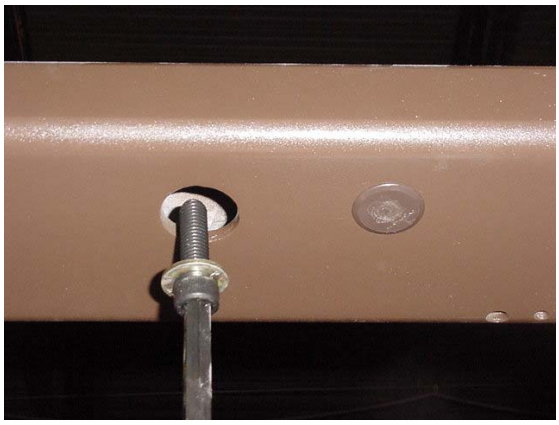
When door is standing upright in the opening. Hold the door stationary and unlock the forced entry locks.

Open door to 80° ± 5°.

SEE CENTERPUNCH INSTRUCTIONS

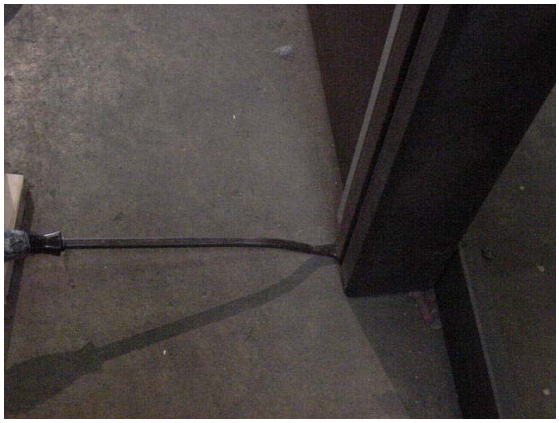
Using a Y drill bit and a 12mm tap, drill and tap the frame head anchors in the center of the slotted holes.

Insert a frame anchor into each of the frame anchor holes in the head of the frame.

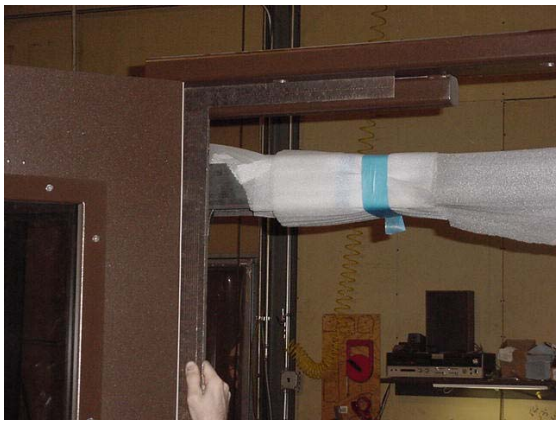


Shims are provided to take up the space between the rough opening and the frame. Be sure to shim an equal clearance between the frame and the wall condition!

Raise frame and snug bolts (do not tighten fully) to allow for frame adjustment.



Raise the hinge or lock jamb to obtain a square point at header to the hinge connection.

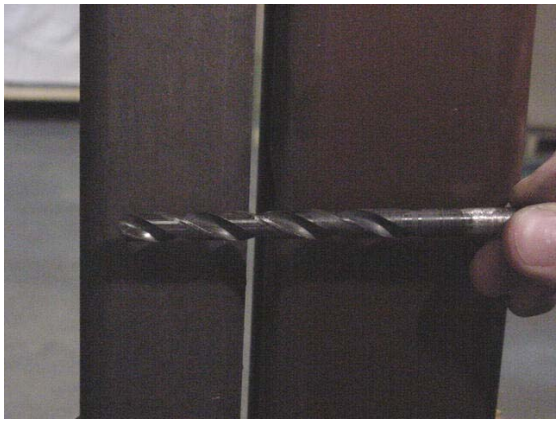


Plumb the hinge jamb in, out, back, and forth. The jamb must be plumb for the door to swing properly.

The hole closest to the floor on both the hinge and lock jambs is NOT a frame anchor hole. This hole was designed to retrieve loss washers and bolts when installing the frame. Do NOT drill and tap this hole.

SEE CENTERPUNCH INSTRUCTIONS

Using a Y drill bit and a 12mm tap, drill and tap the top and bottom frame anchor holes on the hinge jamb through the center of the slotted holes.

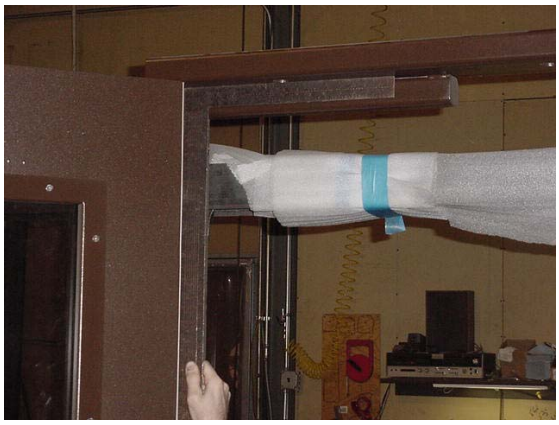


Insert a frame anchor into each of the newly drilled frame anchor holes in the frame.

Snug and shim the bolts (do not tighten fully).

Check the jambs for plumb.

Check the header to hinge jamb angle making sure it is square. If it is out of square, achieve square by raising or lowering lock jamb.



Secure these bolts.

Shims are provided to take up the space between the rough opening and the frame. Be sure to shim an equal clearance between the frame and the wall condition!

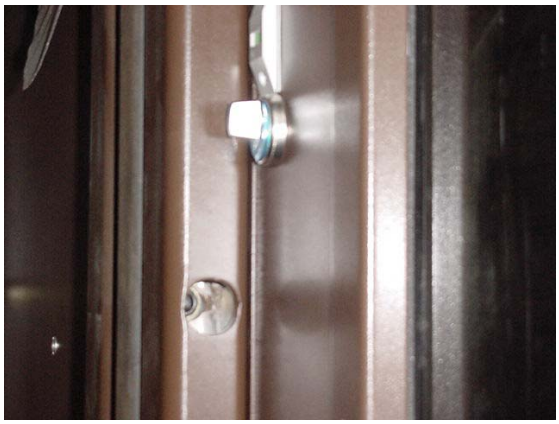
Using a Y drill bit and a 12mm tap, drill and tap the top and bottom frame anchor holes on the lock jamb through the center of the slotted holes.

Insert a frame anchor into each of the newly drilled frame anchor holes in the frame.

Snug and shim the bolts (do not tighten fully).

Adjust the lock jamb making sure that all locks engage.

Anchor the lock jamb straight by keeping an equal clearance between the lock jamb and the door.



Secure these bolts.

SEE CENTERPUNCH INSTRUCTIONS

Using a Y drill bit and a 12mm tap, drill and tap the remaining frame anchors into the hinge and lock jambs.

Insert a frame anchor into each of the newly drilled frame anchor holes in the frame.

Shims are provided to take up the space between the rough opening and the frame. Be sure to shim an equal clearance between the frame and the wall condition!

Secure all bolts in the doorframe to a torque rating of **30 ft.-lbs**.

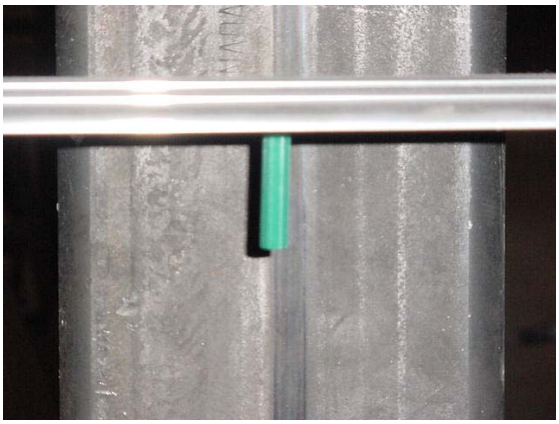
Place a plastic cap (usually size 1 ¼”, provided) into each frame anchor hole.

Threshold usually come pre cut and pre fitted.

If the threshold does not come pre cut and pre fitted it will need to be cut to length and fit for your desired installation.

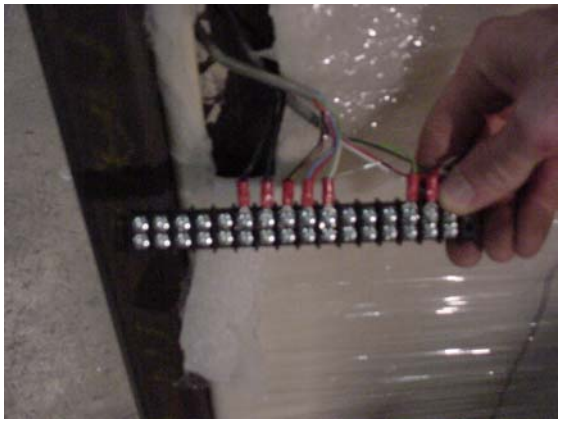
If the threshold is for a FDI-1 door – cut the steel angle spreader bar in two, and break off of the frame.

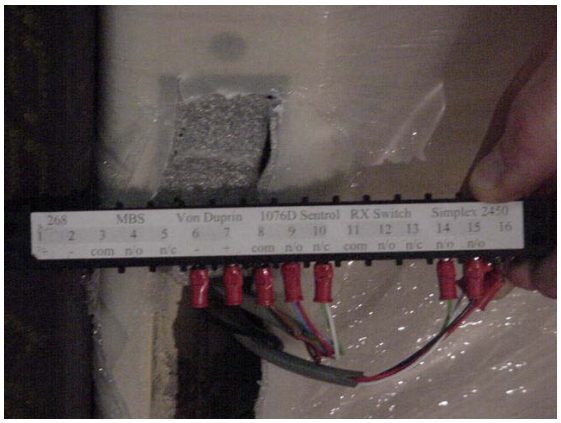
For all installations - Drill three to four ¼” holes through the threshold to accept the plastic anchors.



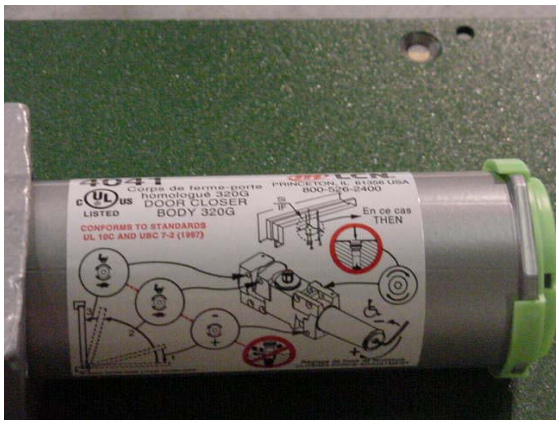
Attach the threshold with #10 x 2” flat head wood screws.

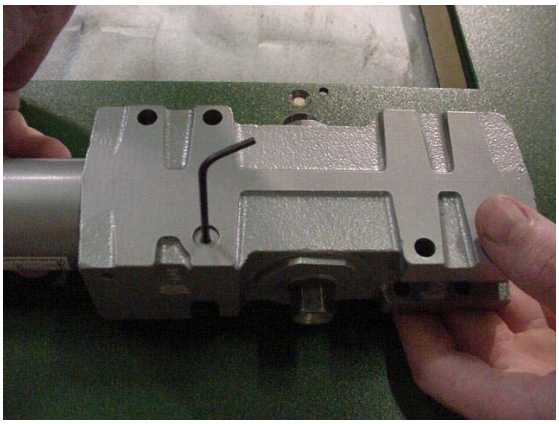
Attach the power source to the terminal block as per wiring diagram located on the back of the terminal block. The diagram only identifies which wires are attached to which terminal. Refer to the manufacturer’ schematics for proper wiring connections or paths.



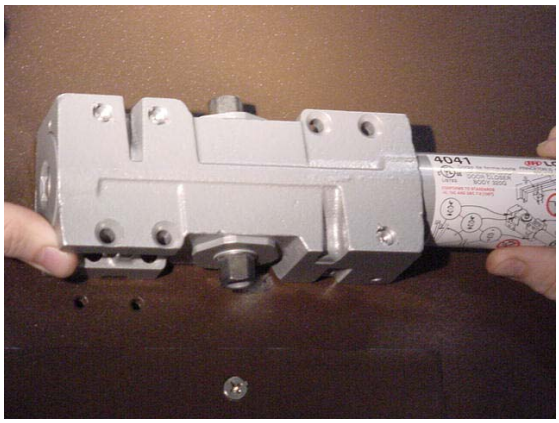


Using the small Allen wrench provided with the closer hardware tighten down the screw on the backside of the closer body as stated on instruction label.





Install the closer to the pre-drilled holes. Refer to the closer manufacturer instructions for adjustments and procedure. Note: The LCN 4041 Cush Closer is handed by the stud on the shoe of the arm.



Insert backer rod between the doorframe and the subframe on both side of the door recessed about 3/8”.

Attach ballistic bar by first drilling with a #9 drill bit and tap holes with a 6mm tap into the secure side of the subframe, embed, or wall per the contractor's request. The ballistic bar may have different placement specified by the contractor so it is important to consult the product details prior to drilling.

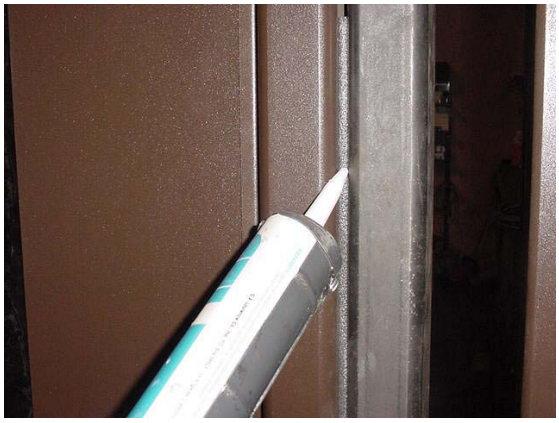
If the door has gap covers instead of ballistic bar then attach ballistic gap cover to appropriate jambs and secure with provided ¼-20 x ¾" flat head machine screws.

If you removed the ballistic gap cover head before installation you must realign the magnetic lock before you reinstall the bar. First, remove the four screws holding on the cover of the magnetic lock. Then, slide the cover off to reveal two ¼-20 pan head machines screws. Loosen these screws two full turns. With the door shut and all of the forced entry locks engaged push the housing of the magnetic lock up against the steel bar attached to the door. Install the ballistic gap cover head by attaching it with ¼-20 x ¾" flat head machine screws. Tighten down the two ¼-20 pan head machine screws. Reinstall the cover of the housing.

Both FDI-05M doors and FDI-1 doors do not get fitted with either ballistic bar or ballistic gap covers.

Apply weatherseal to the door stop if applicable.

Caulk exterior of door between doorframe and subframe.



Caulk between the ballistic bar and the doorframe on the interior. If there is no ballistic bar such as in the case of a FDI-5M, caulk between the doorframe and subframe.