Basic installation instructions for the new Hamilton Groutless Vault Door, door jamb panels, header panel, daygate, and optional daygate closer.

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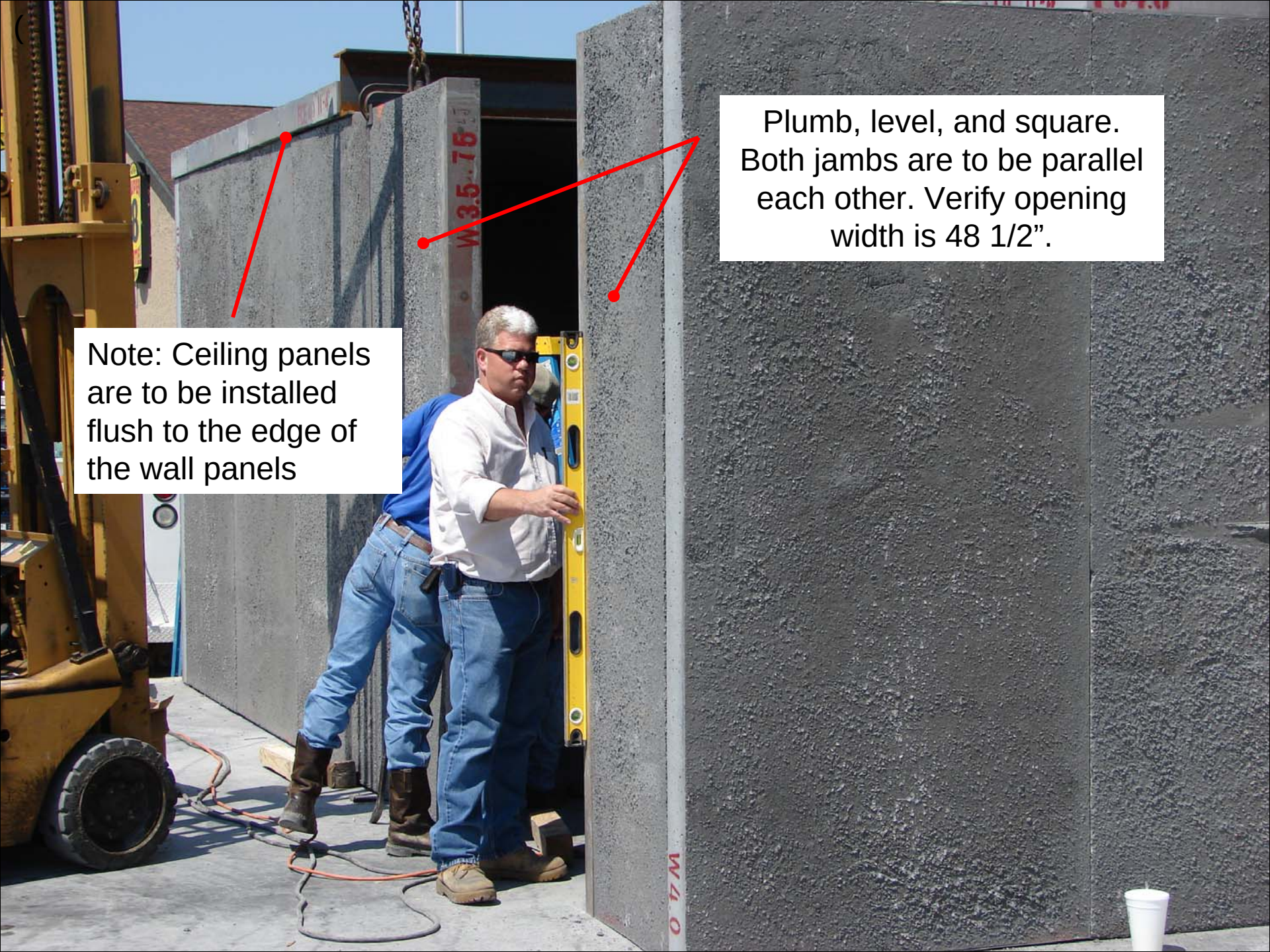
Date : 8/22/07
Revision 2 : 3/18/08
Revision 3 : 7/28/08
Revision 4 : 5/25/09
Revision 5 : 7/1/09

Installation Instructions

- 1. Prepare opening: The outside face of the wall with the proper size block-out opening for the vault door of 48 1/2”Wide x 82 1/2” High. The sides and top of the opening must be plumb, level, and square.
- 2. Prepare the modular vault: Provide enough light inside of the modular vault and position at least one person inside the vault with the tools necessary (10” adjustable wrench and pry bar) to remove the bolts for door retainers / shipping shims.
- 3. Staging vault door for lifting: Position the vault door flat on the floor, with the outside of the door facing down, so it can be raised to a vertical position at a right angle (90 degrees) to the opening. Then with appropriate help, raise the door to the vertical position. **Use the 3” x 3” vault panel shipping board under the door when standing the door to avoid damaging the stainless trim on the rear of door. This eliminates the possibility of bending the trim if the door was to lean inwards.**
- Warning! Do not open the door in this position until after it is welded into the opening.
- 4. Moving the door into the opening: Using extreme caution and enough help move the door into the opening, walking one side at a time works best. When the door face frame is flat against the outside of the wall, check the vertical direction with a level to make sure it is plumb in all directions.
- 5. After welding the door in the opening, unlock the combination lock and release the locking bolts by turning the handle. Need to have someone inside the vault remove the shipping shims with the 10” adjustable wrench or 1 1/8” socket.
- 6. Finish welding: Once door swing is acceptable the door must be welded on inside of the vault to match outside. Factory recommends at least 3” long welds top, bottom, and middle on both the inside and outside.


Plumb, level, and square (Should be parallel to opposite door jamb). Verify opening width is 48 1/2”. (Note: Ceiling panels are to be installed flush the edge of the wall panels)
The left jamb will be labeled LJ along with the size.


Plumb, level, and square (Should be parallel to opposite door jamb). Verify opening width is 48 ½”.
The right jamb will be labeled RJ along with the size.


Plumb, level, and square. Both jambs are to be parallel each other. Verify opening width is 48 1/2”.
Note: Ceiling panels are to be installed flush to the edge of the wall panels


Plumb, level, and square (Should be parallel to both jamb panels)


Prior to welding check slab for crowning.
The rough opening should be 82 1/2” high.
(Note: Opening has 1/2” tolerance for
leveling purposes)
MOTEL
INDOOR
POOL

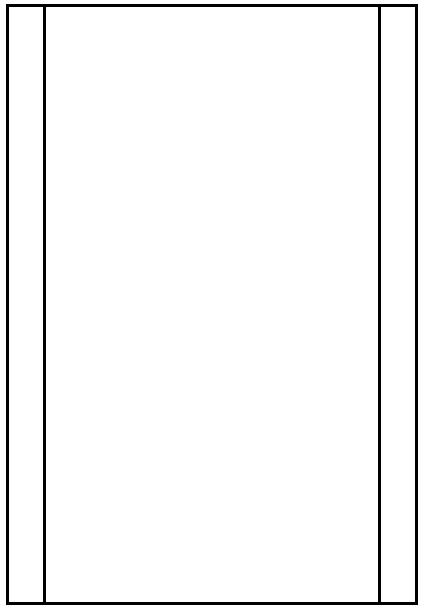

Notice the use of the angle iron to help hold the header plumb and in line with the door jamb panels

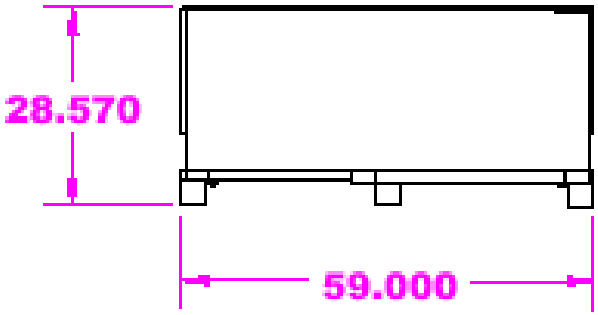

Note the weld on the outside of header panel
W4.0

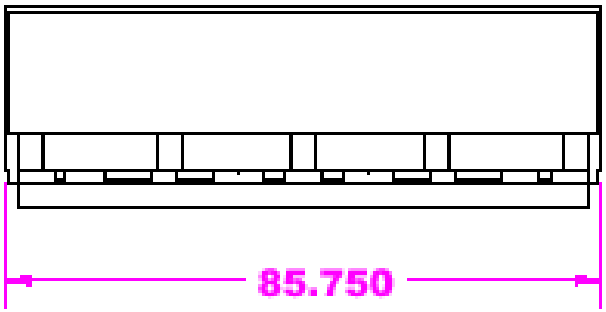

When acceptable weld
the header panel on
the inside of the vault
on both sides.

Verify if and where you need to shim under the door so you can make shims stacks prior to setting the door – then mark so they can be replaced once the door is in the opening.

Door in Crate

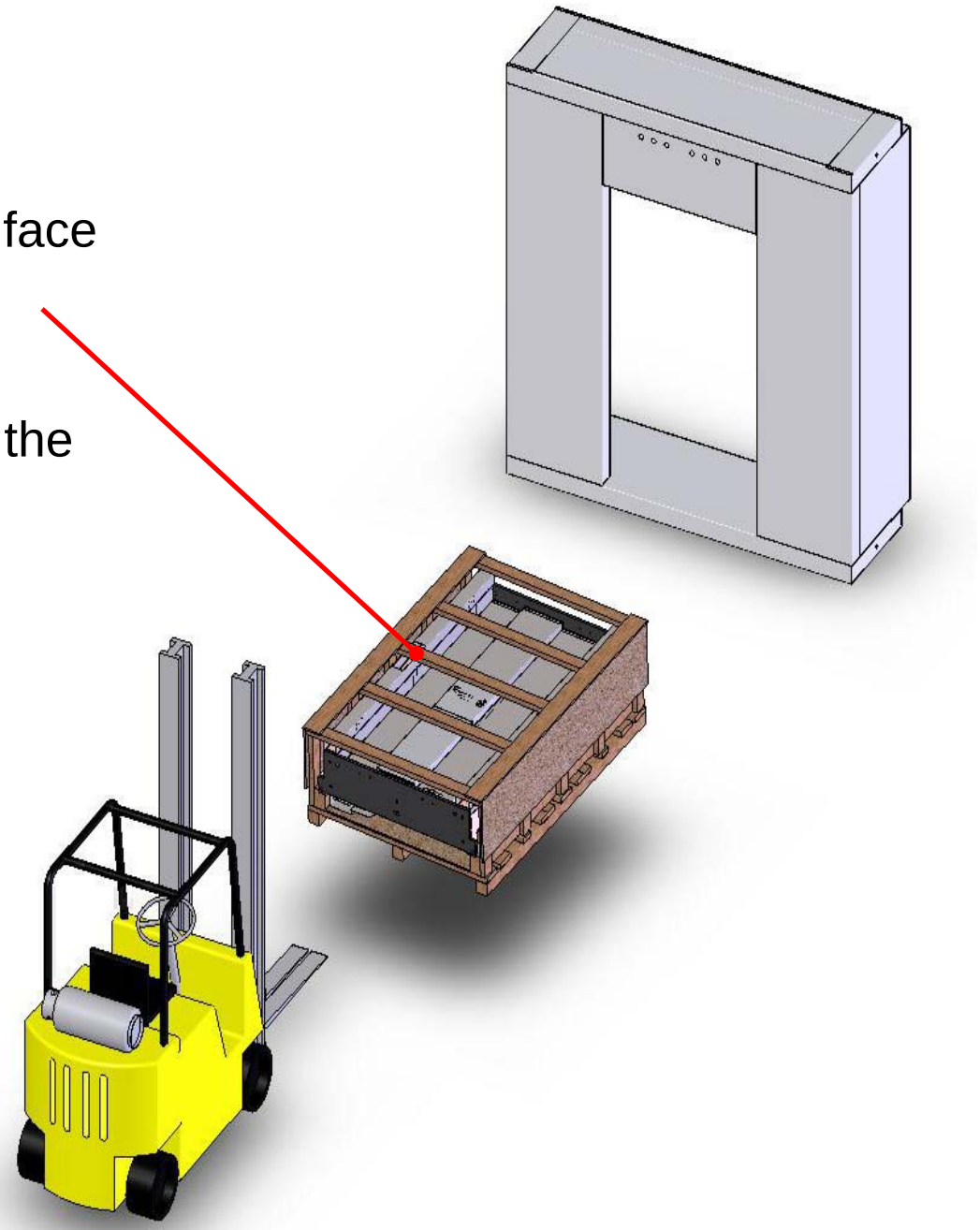






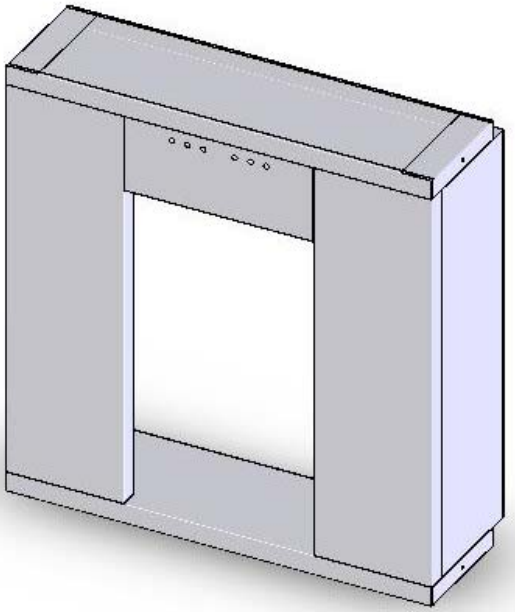
New vault door is shipped face down in the crate

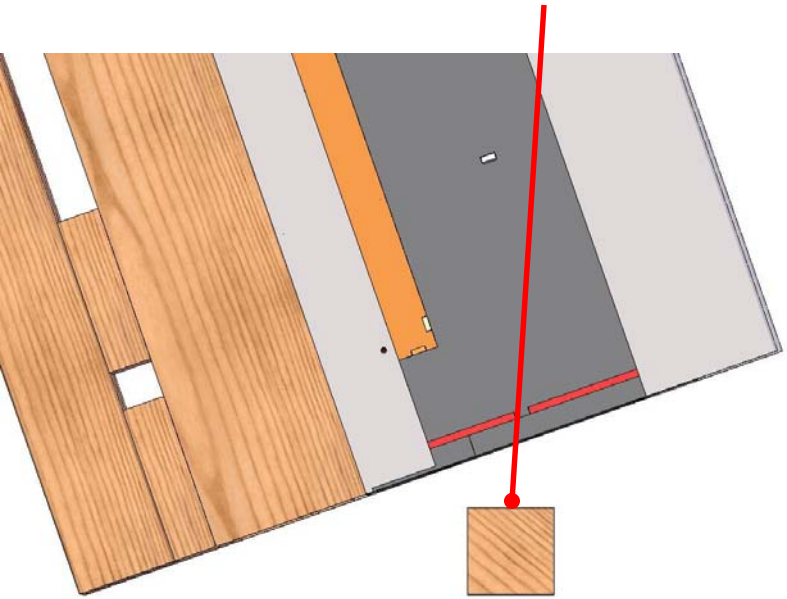
Rear stainless trim is completely installed from the factory.

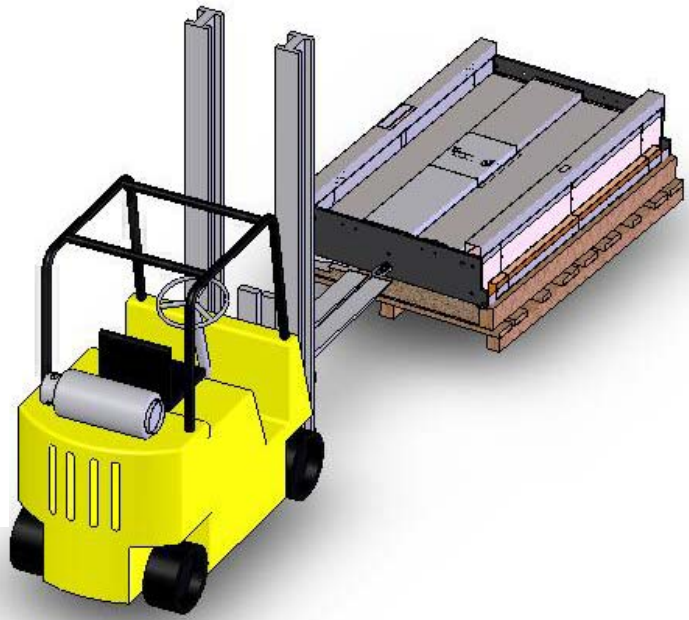


New vault door with top of the skid removed – The bottom can remain on when standing up. (The bottom is designed to reinstall over the door after installation to protect it until building is under roof)

Use the 3” x 3” vault panel shipping board under the door when standing the door to avoid damaging the stainless trim on the rear of door. This eliminates the possibility of bending the trim if the door was to lean inwards.







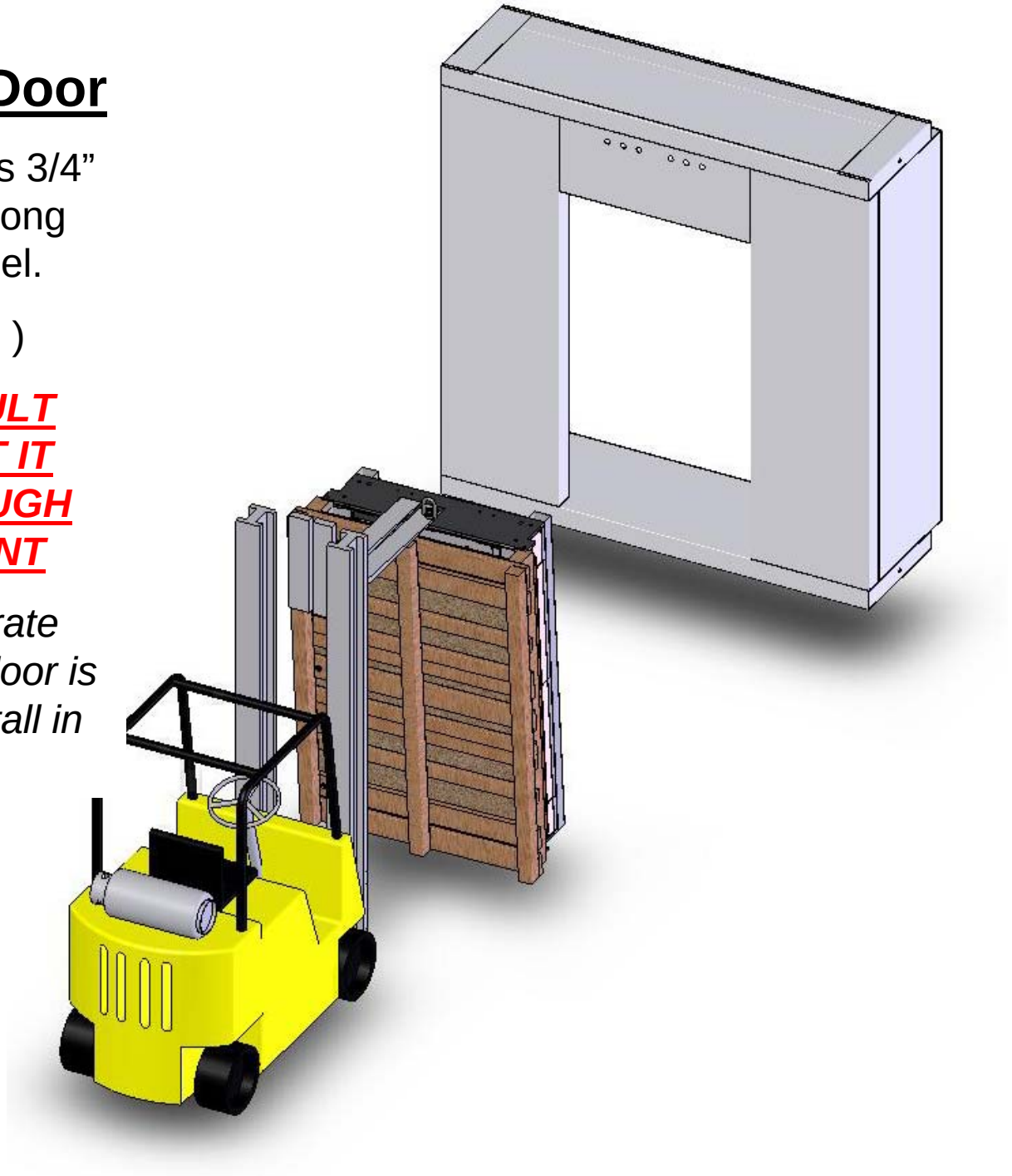
Not Supplied with Door

Note the swivel hoist ring is 3/4” but the bolt is longer (4” long bolt) than the vault panel.

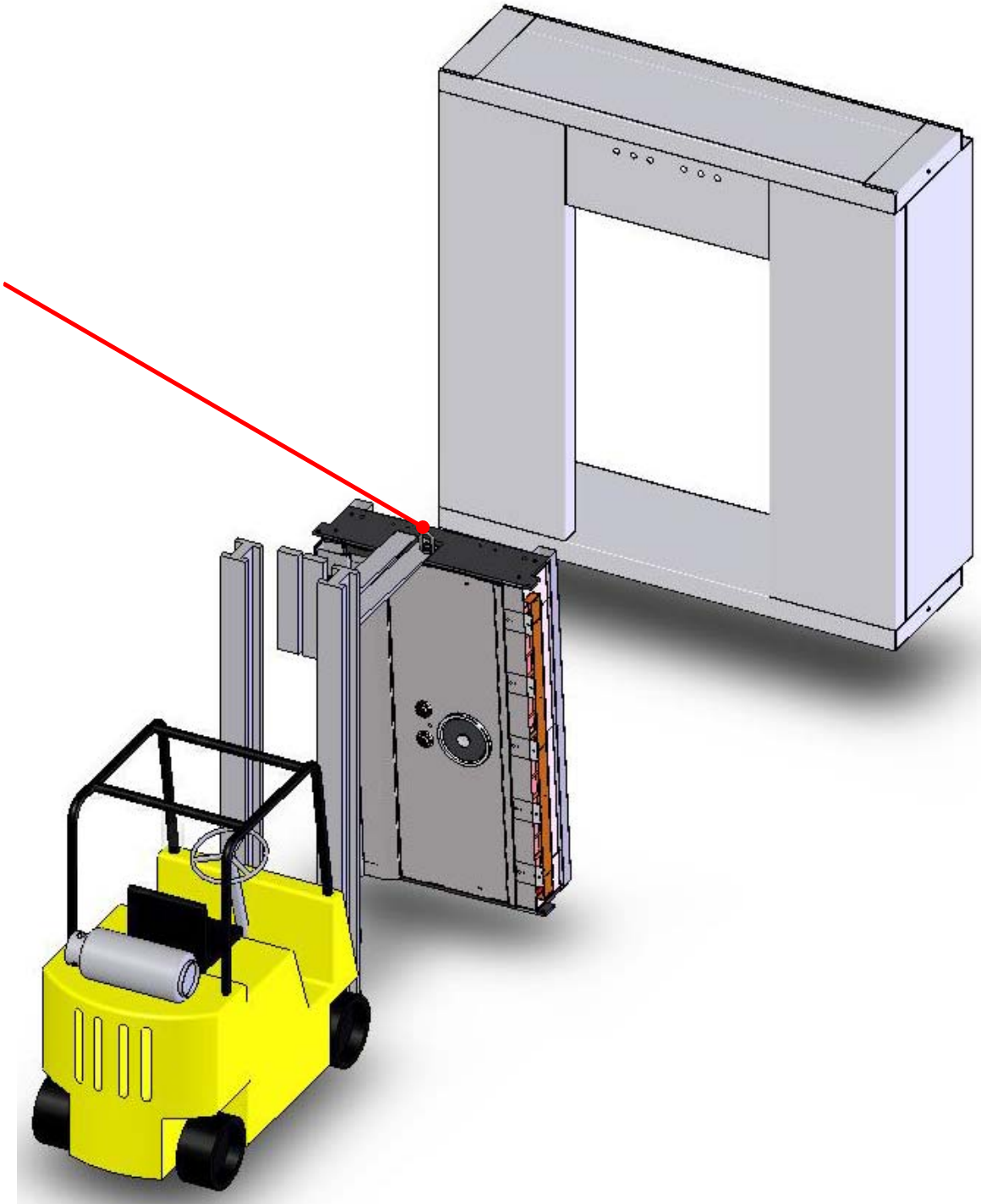
(Part Number: B10037)

DO NOT USE THE VAULT PANEL SWIVEL HOIST IT DOES NOT HAVE ENOUGH THREAD ENGAGEMENT

Now the bottom of the crate should be removed once door is standing and ready to install in the rough opening.



Now we are ready to set the door in our opening. The door can be placed completely in the opening without removing the swivel hoist ring.



At this point if ceiling is complete one installer must remain inside the vault in order to remove the bolts for the door retainer and shipping shim.

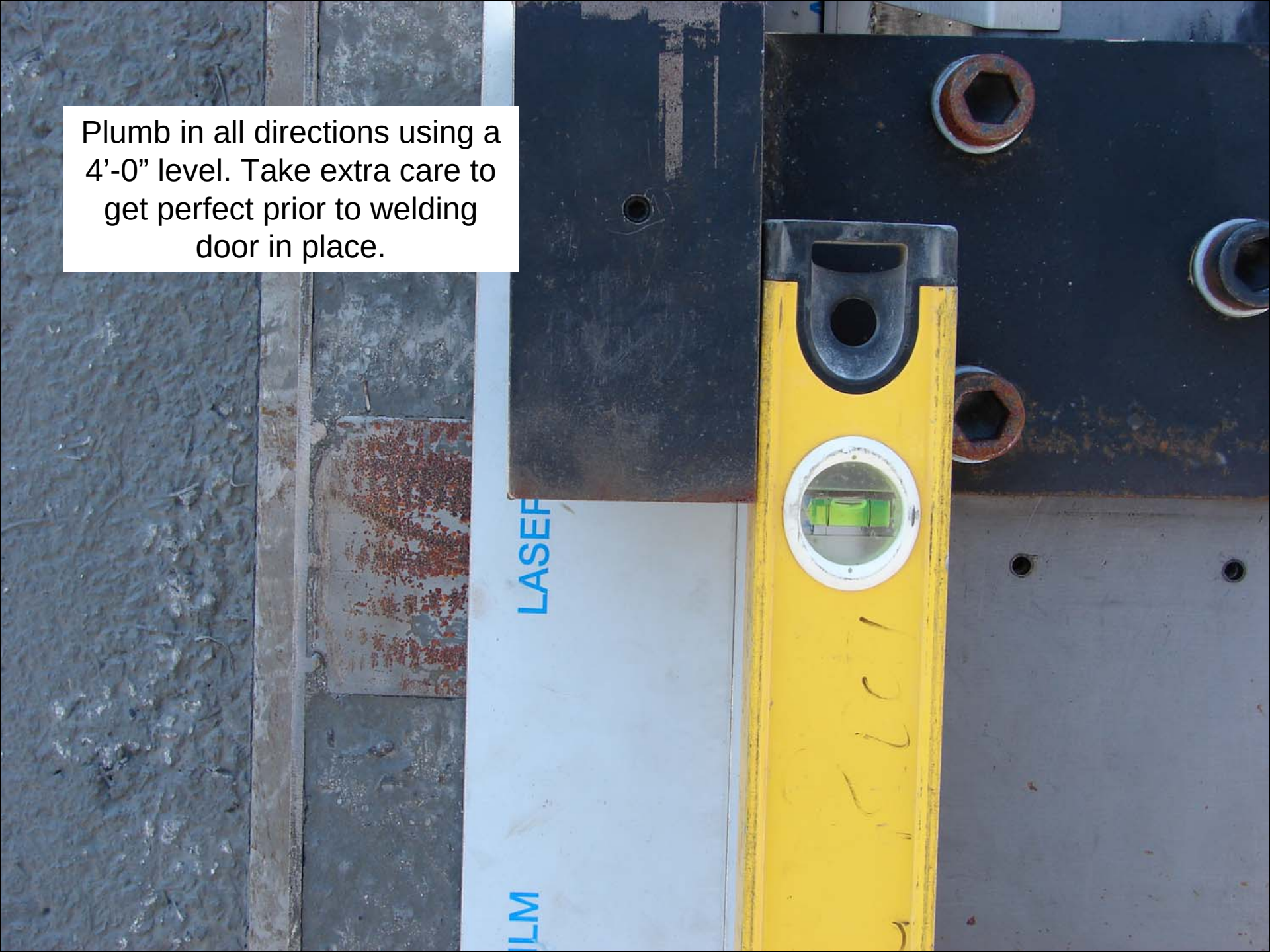
(Note: If possible leave one ceiling panel off to allow enough light in for final welding and allow you to pass tools back and forth.

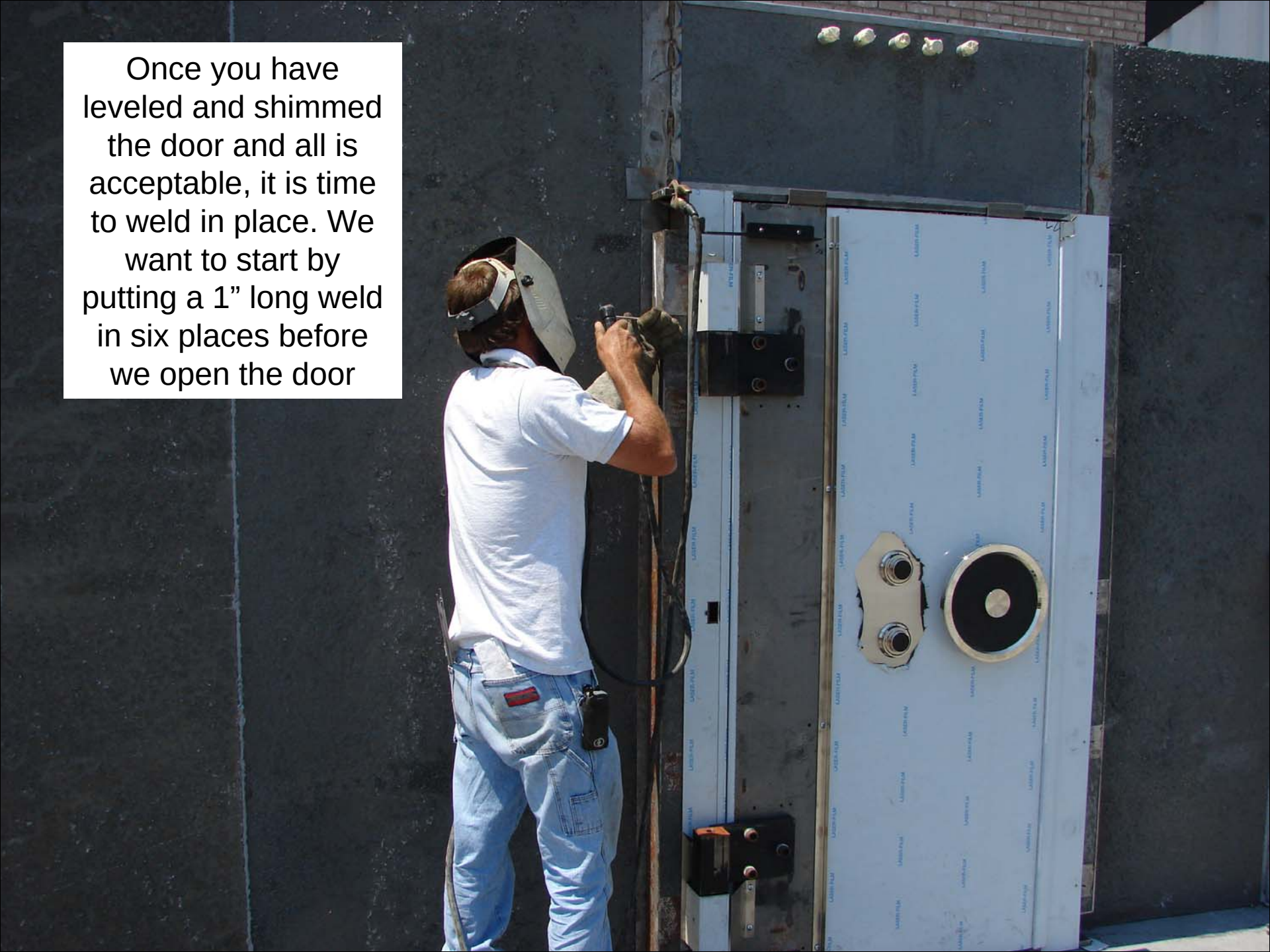

Note: The door can be placed completely in the opening without removing the swivel hoist ring.
LASER-FILM

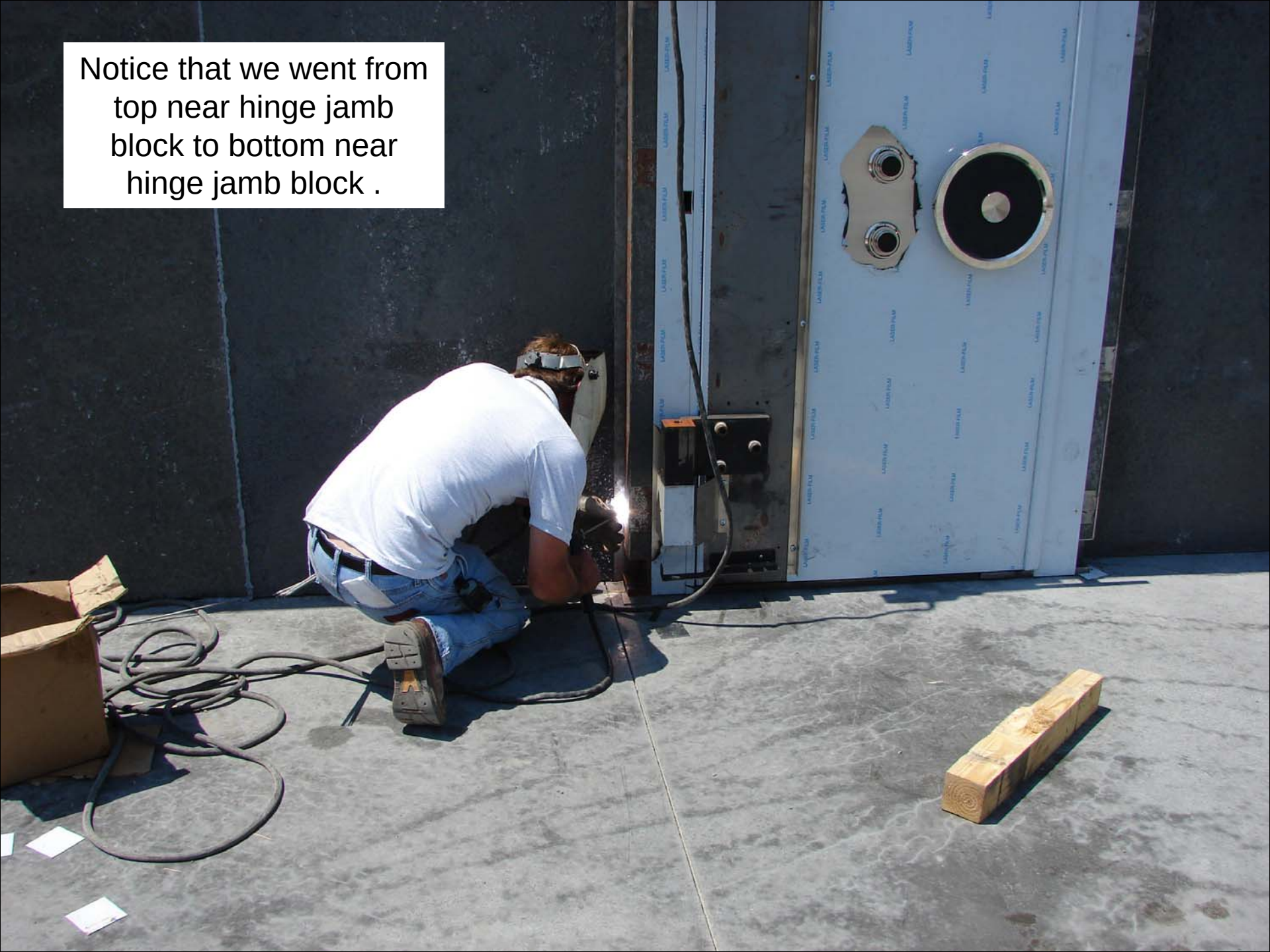
Note the bottom threshold of the door is not as wide as the door frame to offer a pry point. Use a pry bar between door frame and floor to raise door up to level for installation and re-install shim packs made earlier.


Plumb in all directions using a 4’-0” level (6’-0” recommended). Take extra care to get perfect prior to welding door in place.


LASER-FILM


Plumb in all directions using a 4’-0” level. Take extra care to get perfect prior to welding door in place.

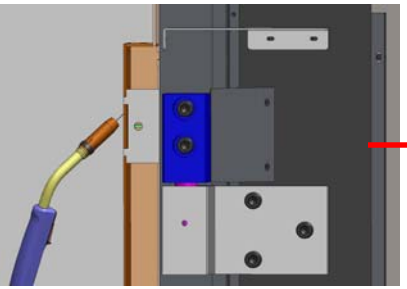

Once you have leveled and shimmed the door and all is acceptable, it is time to weld in place. We want to start by putting a 1” long weld in six places before we open the door


Notice that we went from top near hinge jamb block to bottom near hinge jamb block .

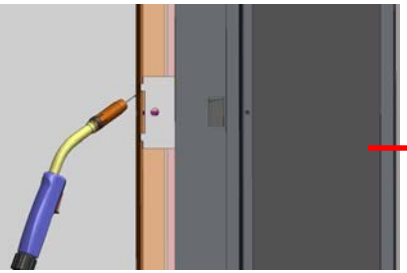

We now moved to the strike side of the door bottom for our fist 1” long weld.
LASER-FILM
LASER-FILM
LASER-FILM
LASER-FILM


We now go back to the hinge side to put the 1” weld in the middle.

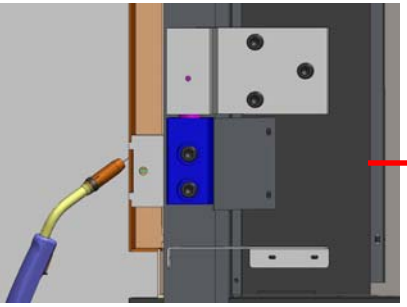
Now put your weld in the middle and top of the strike side.



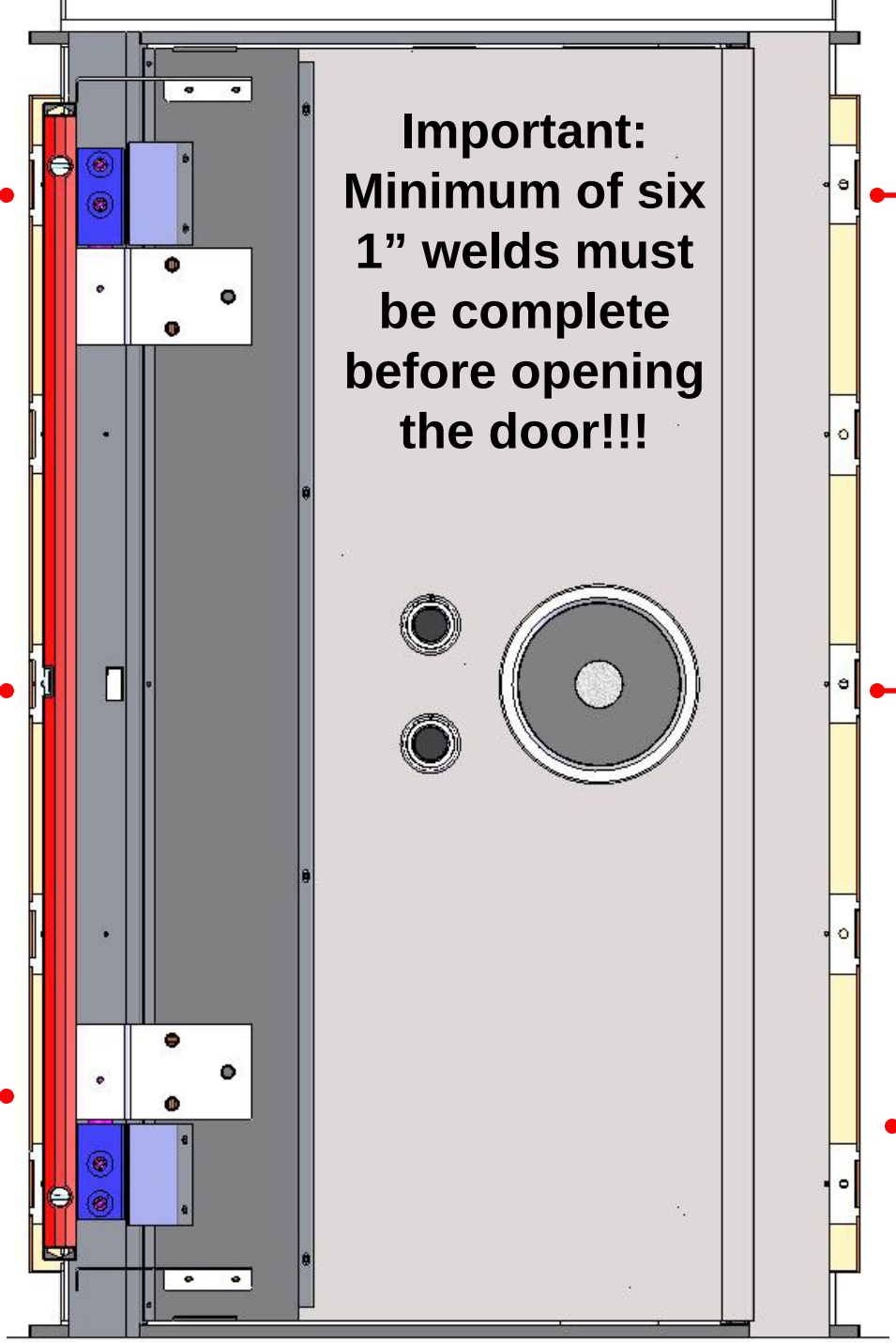
1” Weld-1st

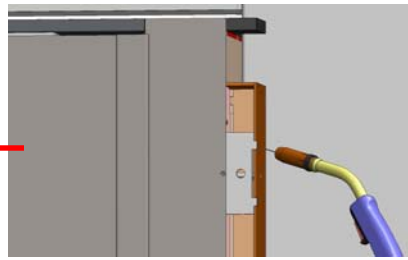


1” Weld-4th

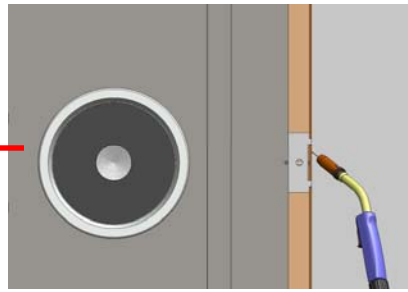


1” Weld-2nd



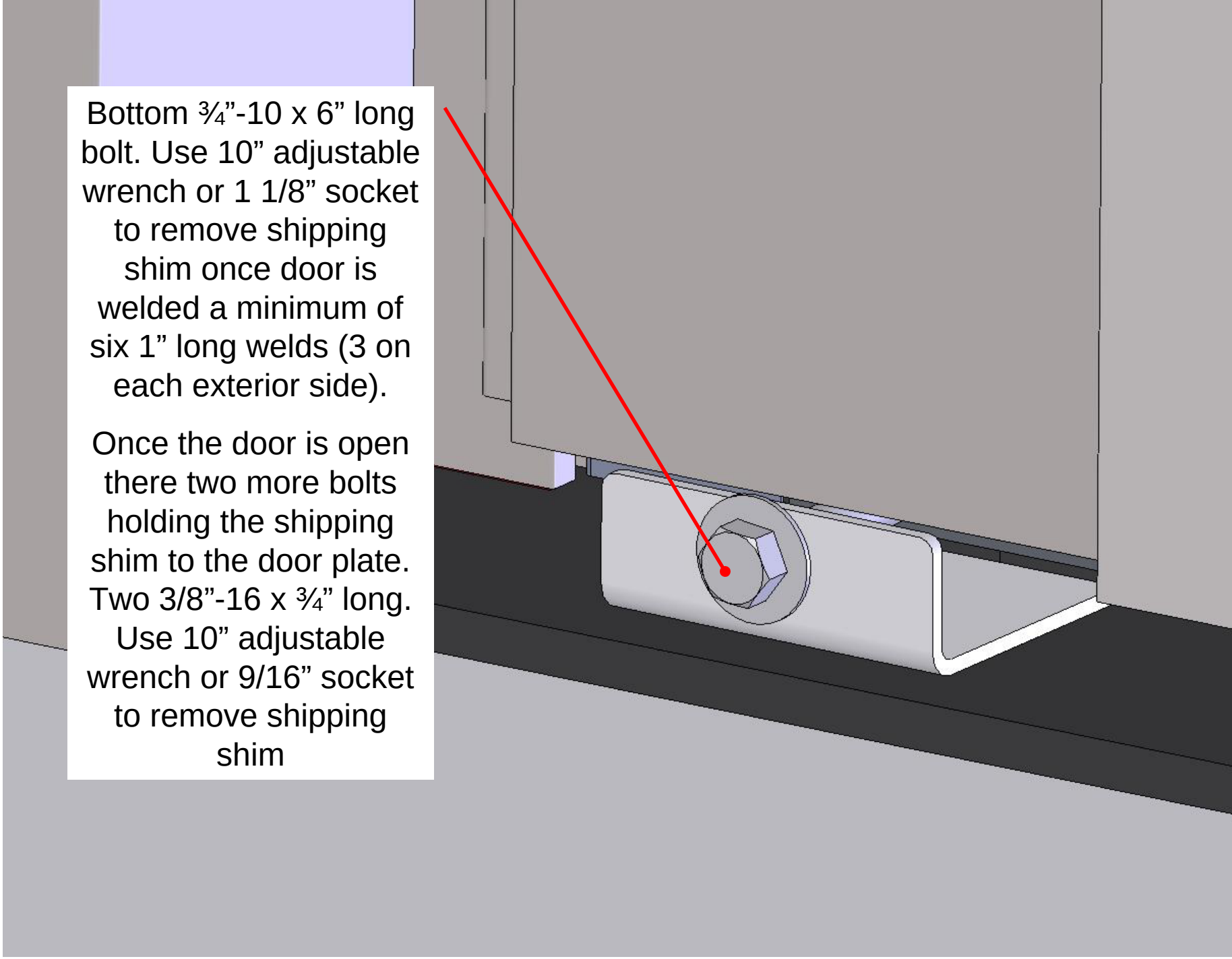


1” Weld-6th



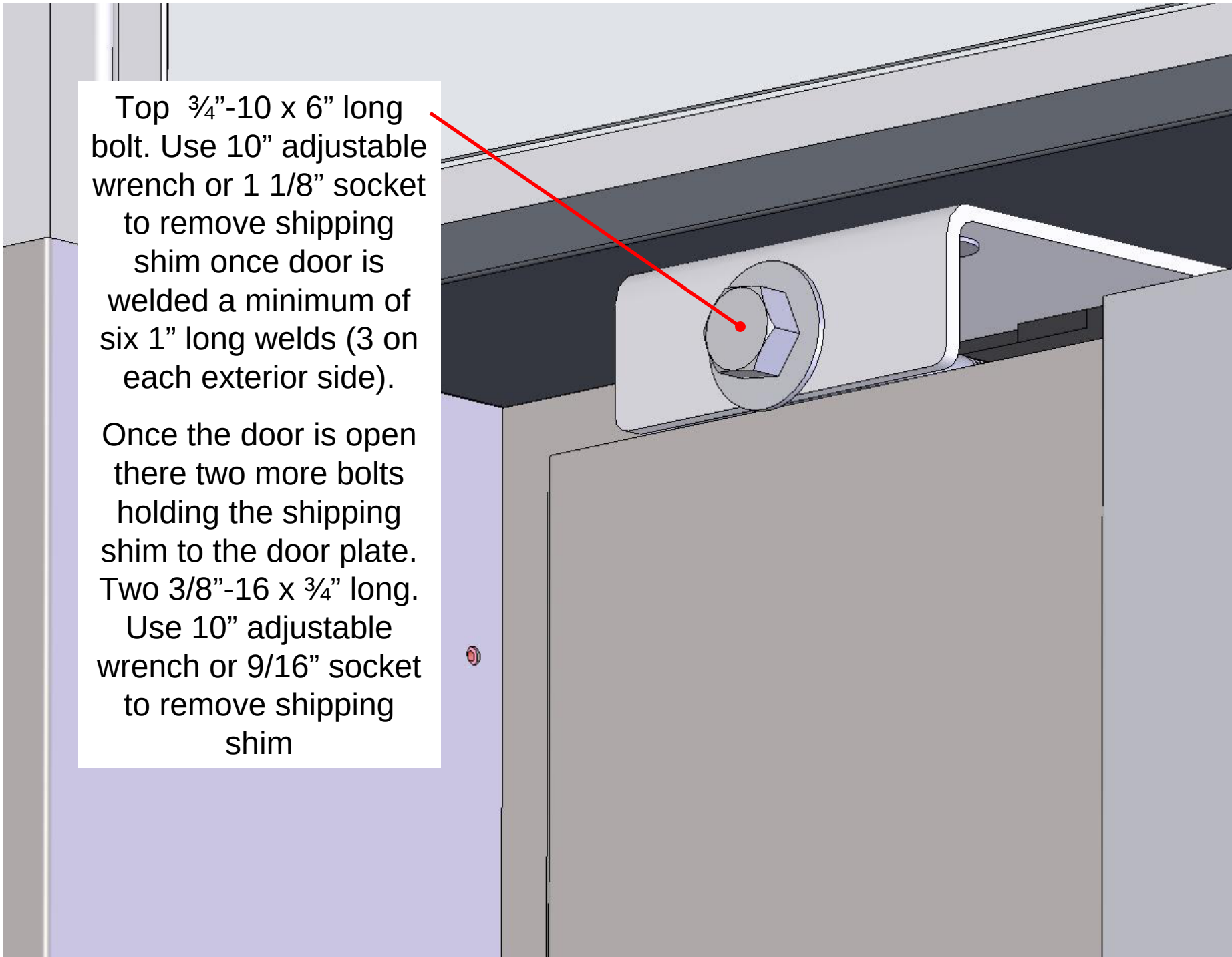
1” Weld-5th

1” Weld-3rd

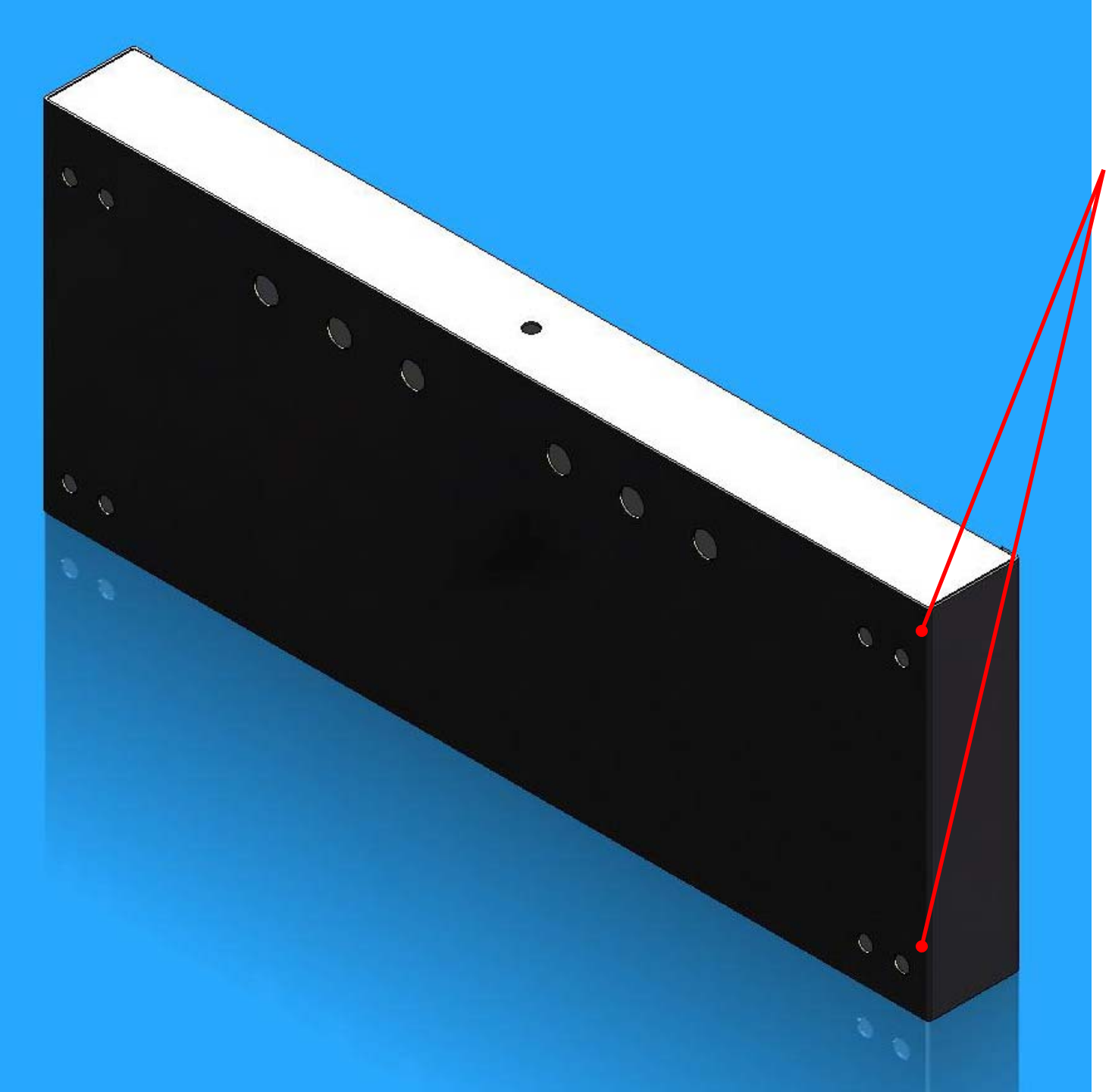


Bottom ¾”-10 x 6” long bolt. Use 10” adjustable wrench or 1 1/8” socket to remove shipping shim once door is welded a minimum of six 1” long welds (3 on each exterior side).

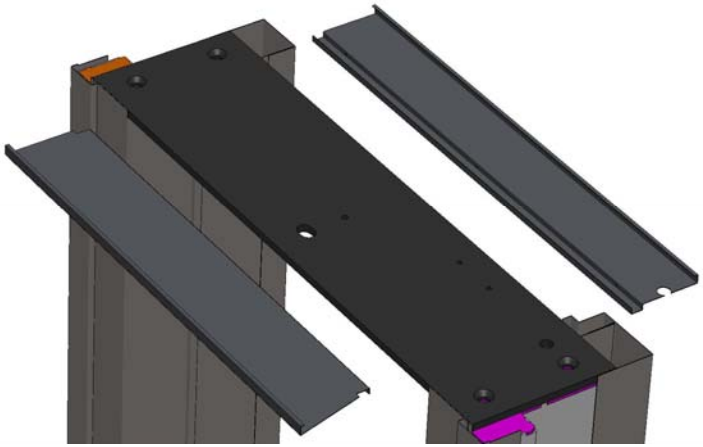
Once the door is open there two more bolts holding the shipping shim to the door plate. Two 3/8”-16 x ¾” long. Use 10” adjustable wrench or 9/16” socket to remove shipping shim


Top ¾”-10 x 6” long bolt. Use 10” adjustable wrench or 1 1/8” socket to remove shipping shim once door is welded a minimum of six 1” long welds (3 on each exterior side).
Once the door is open there two more bolts holding the shipping shim to the door plate. Two 3/8”-16 x ¾” long. Use 10” adjustable wrench or 9/16” socket to remove shipping shim


We are now ready to open the door.
If door swing is acceptable the door still must be welded on inside of the vault to match outside. Factory recommends at least 3” long welds top, bottom, and middle on the inside and outside.



Note: The 2 = 1/2” conduits on eaȍh side for alarm and light switch.



Top View

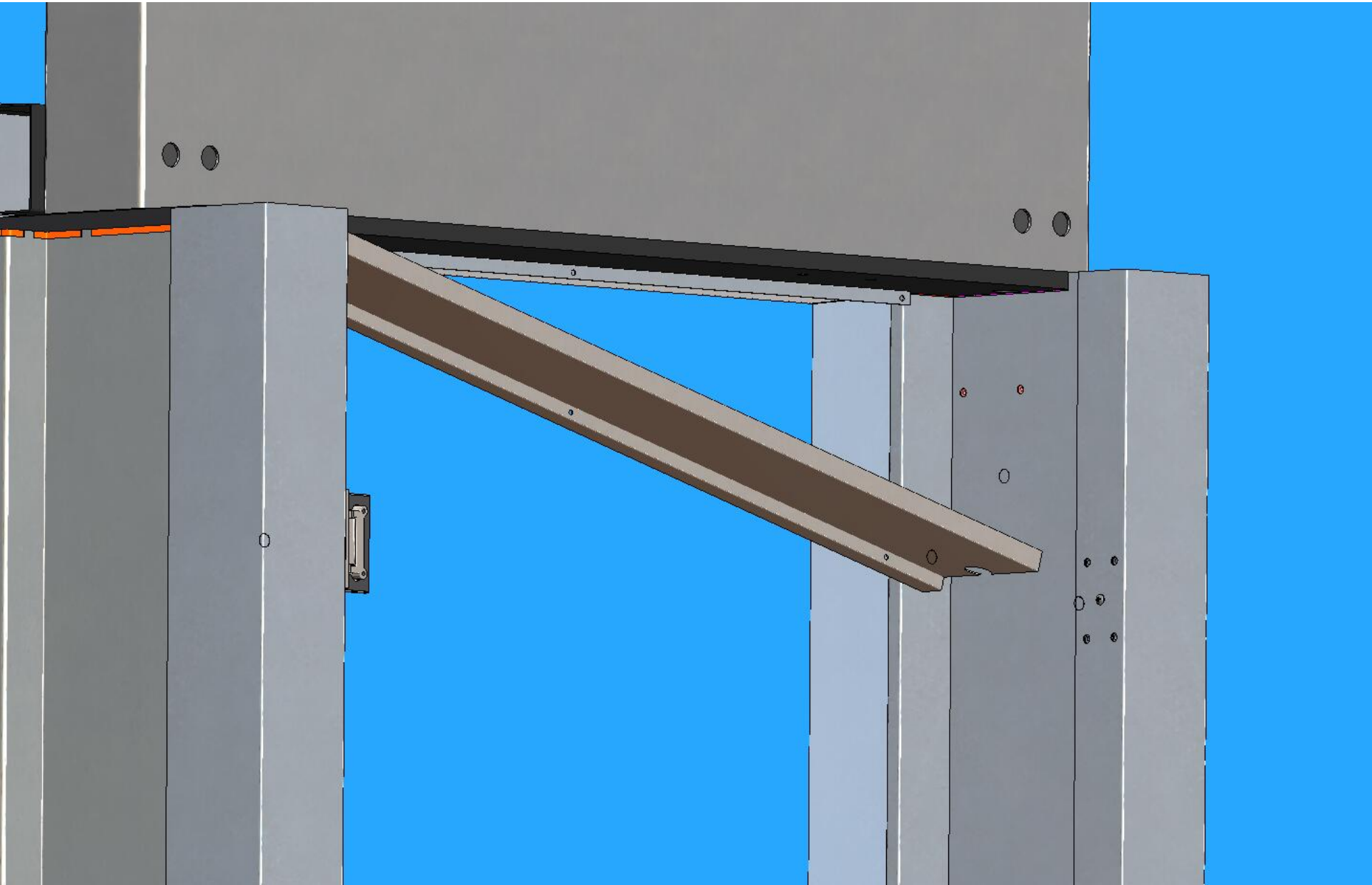
TWO PIECE TOP TRIM
STEP ONE: Slide front trim piece in from front

Rear View

STEP TWO: Slide rear trim in from back being sure to hook over front piece flange.
STEP THREE: Use screws (8-32 x ¾ SSTH) supplied to draw both pieces together

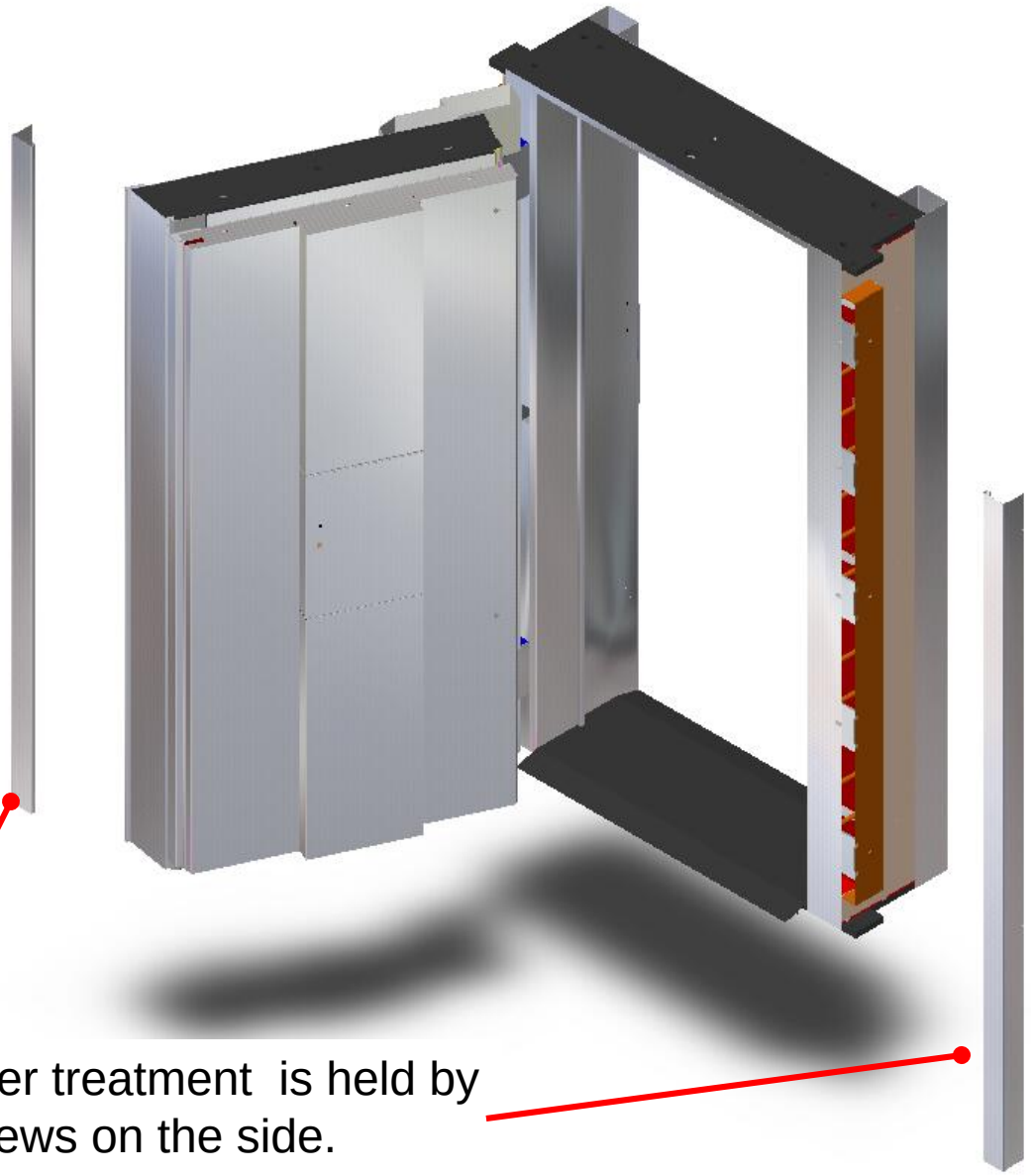
Side View

The trim is easier to install if you install one corner then the other see below…

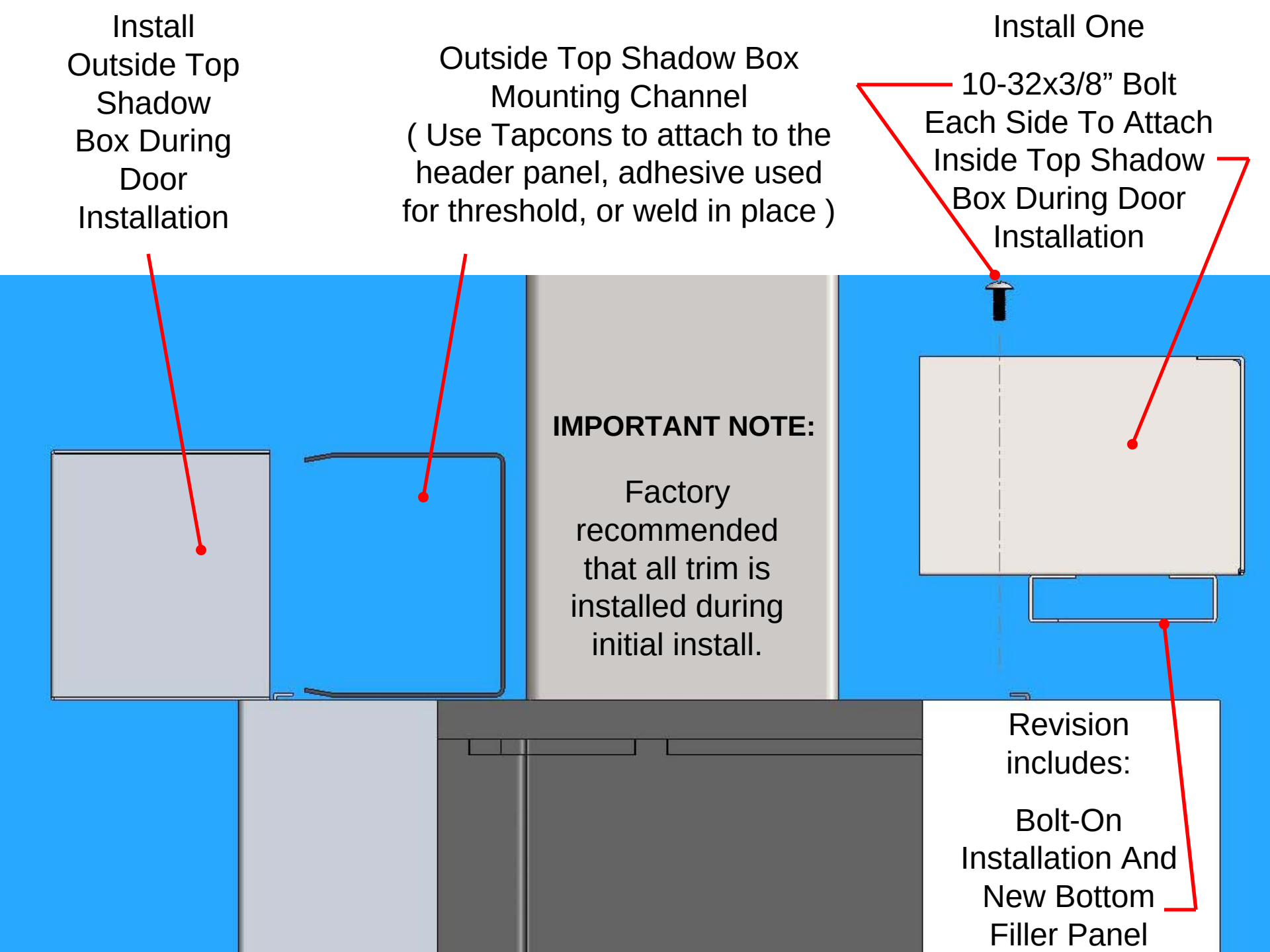


IMPORTANT NOTE:

Factory recommended that all trim is installed during initial install.

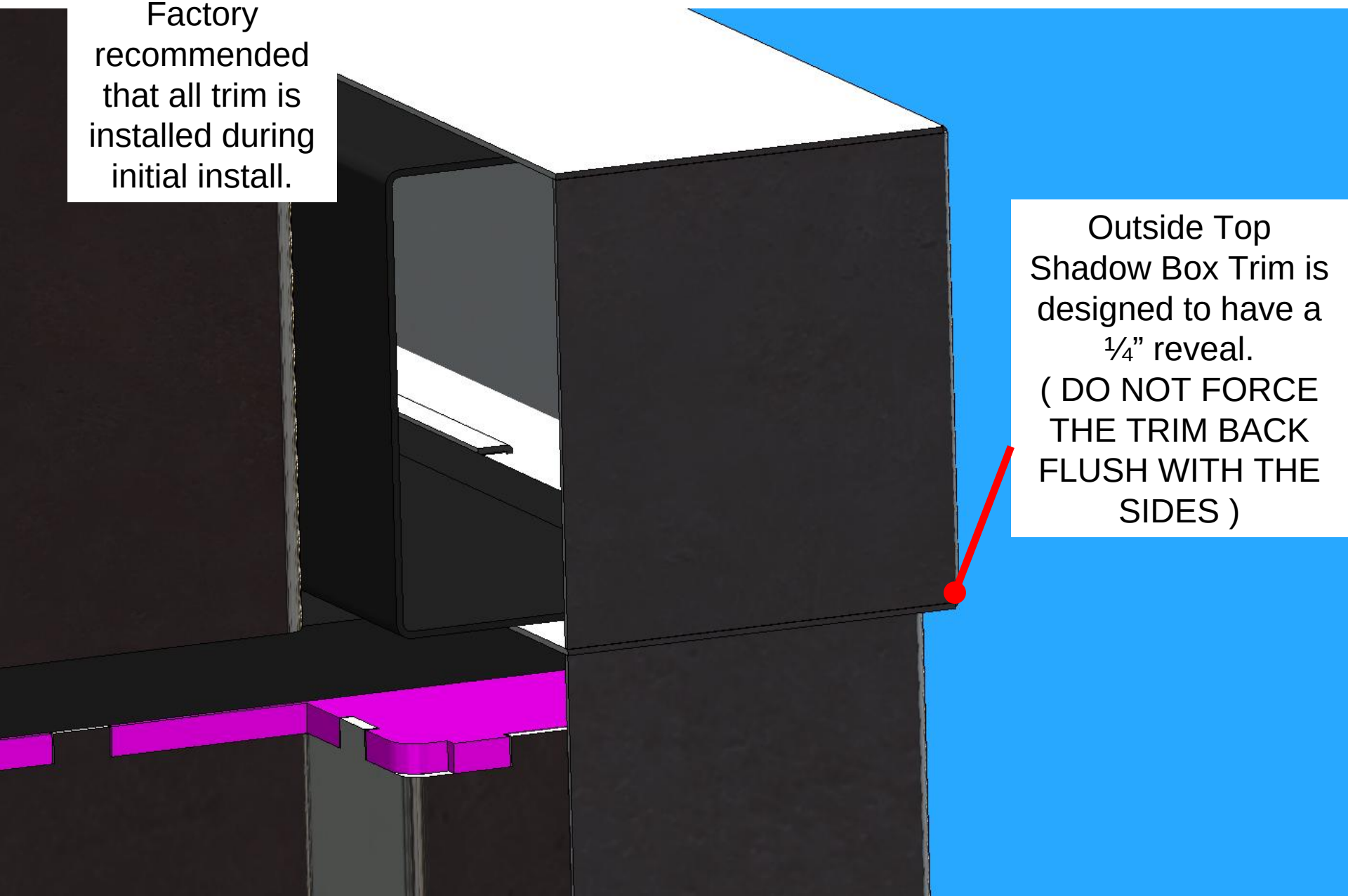


The front corner treatment is held by five screws on the side.


Install Outside Top Shadow Box During Door Installation
Outside Top Shadow Box Mounting Channel (Use Tapcons to attach to the header panel, adhesive used for threshold, or weld in place)
Install One 10-32x3/8” Bolt Each Side To Attach Inside Top Shadow Box During Door Installation
IMPORTANT NOTE:
Factory recommended that all trim is installed during initial install.
Revision includes:
Bolt-On Installation And New Bottom Filler Panel

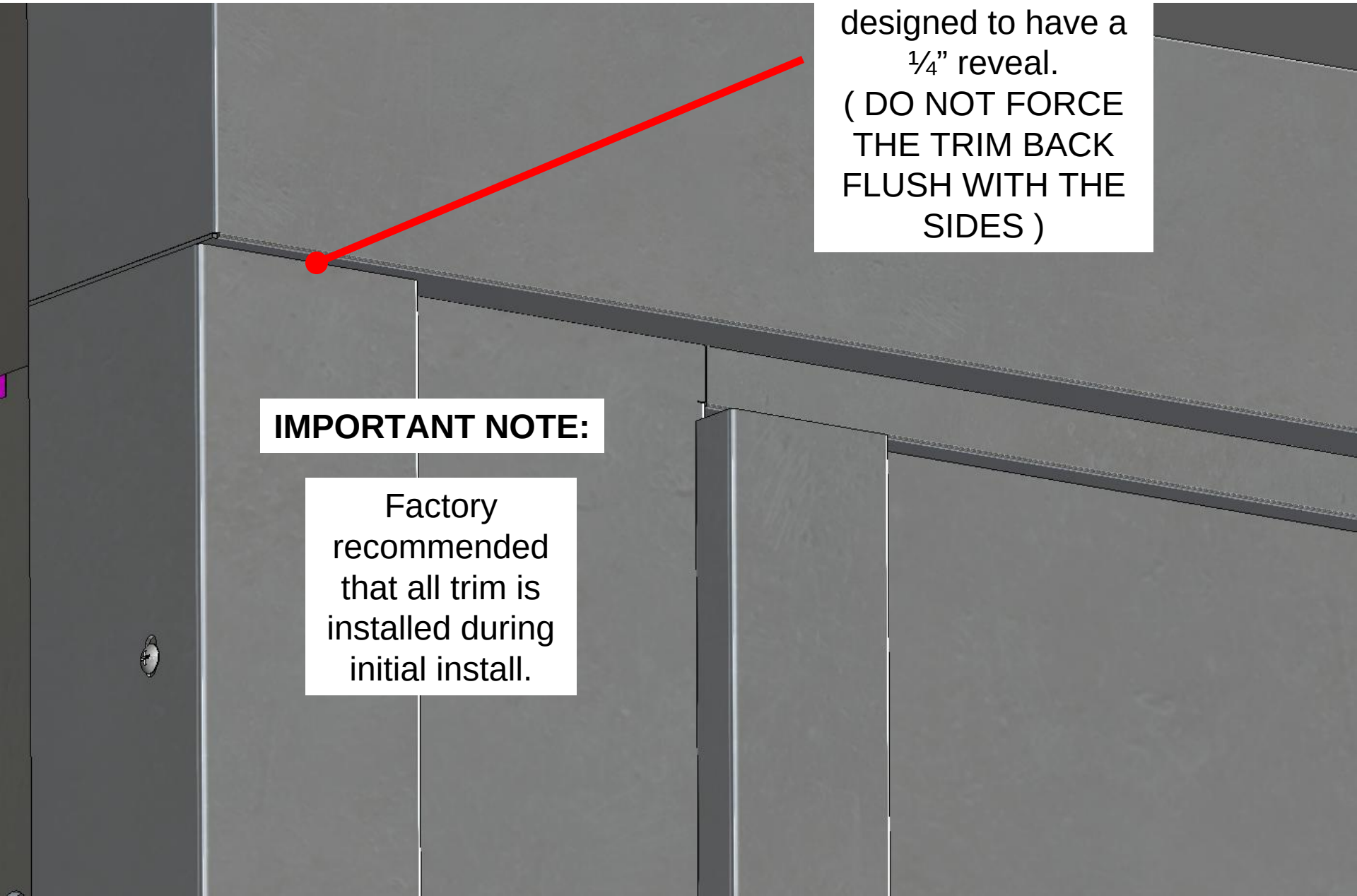
IMPORTANT NOTE: Rear View showing ¼” reveal on shadow box

Factory recommended that all trim is installed during initial install.



Outside Top Shadow Box Trim is designed to have a ¼” reveal.
(DO NOT FORCE THE TRIM BACK FLUSH WITH THE SIDES)

Front View showing ¼” reveal on shadow box



Rear View Showing the Newly Redesigned Inside Top Shadow Box Trim

IMPORTANT NOTE:

Factory recommended that all trim is installed during initial install.

The New Trim Has A Reveal – The Top Shadow Box Trim Overhangs the Sides By ¼”.

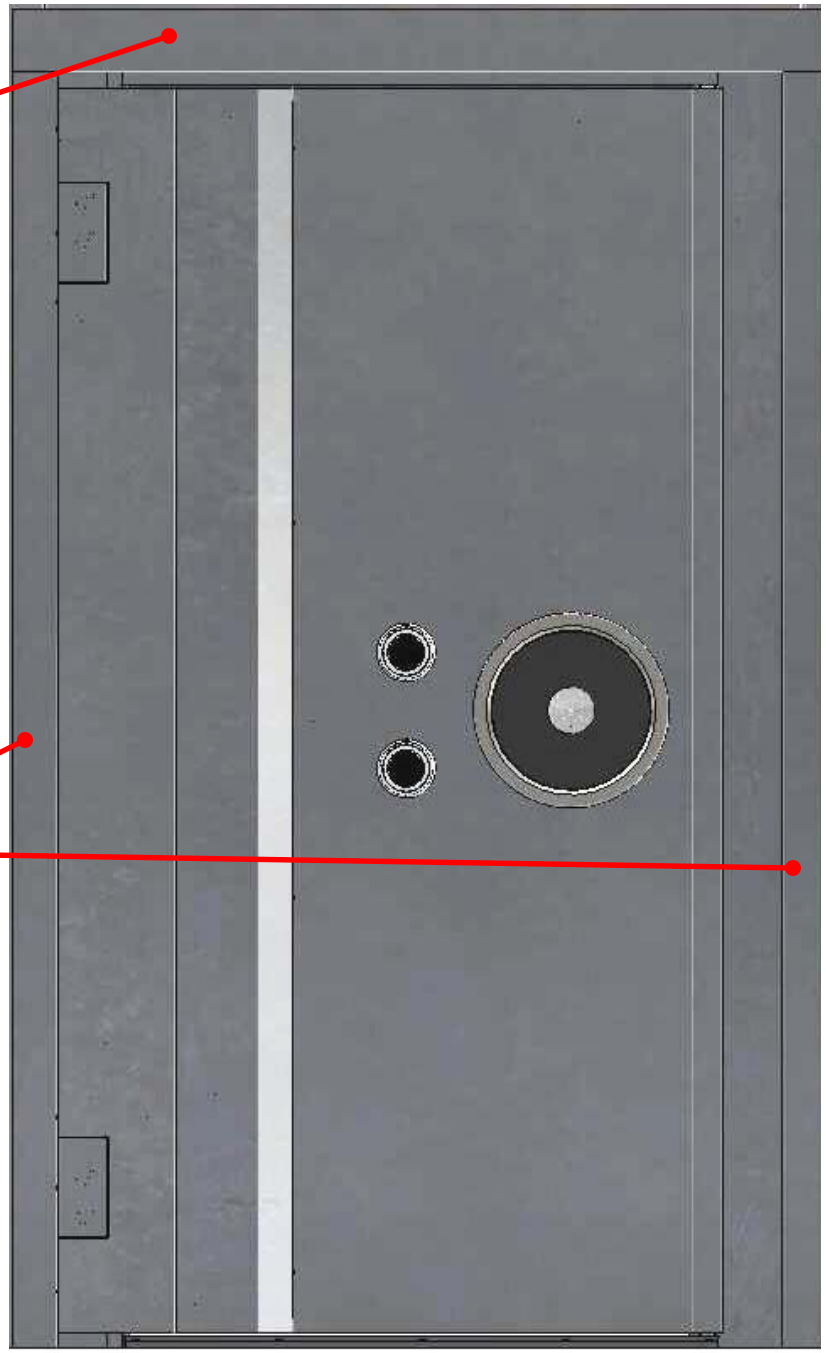
The new revised top trim. The trim is same width as the door frame. This allows all trim to be installed at the time of installation.

((This design allows the end user to use the same trim used throughout the building or just frame and drywall up to the door))

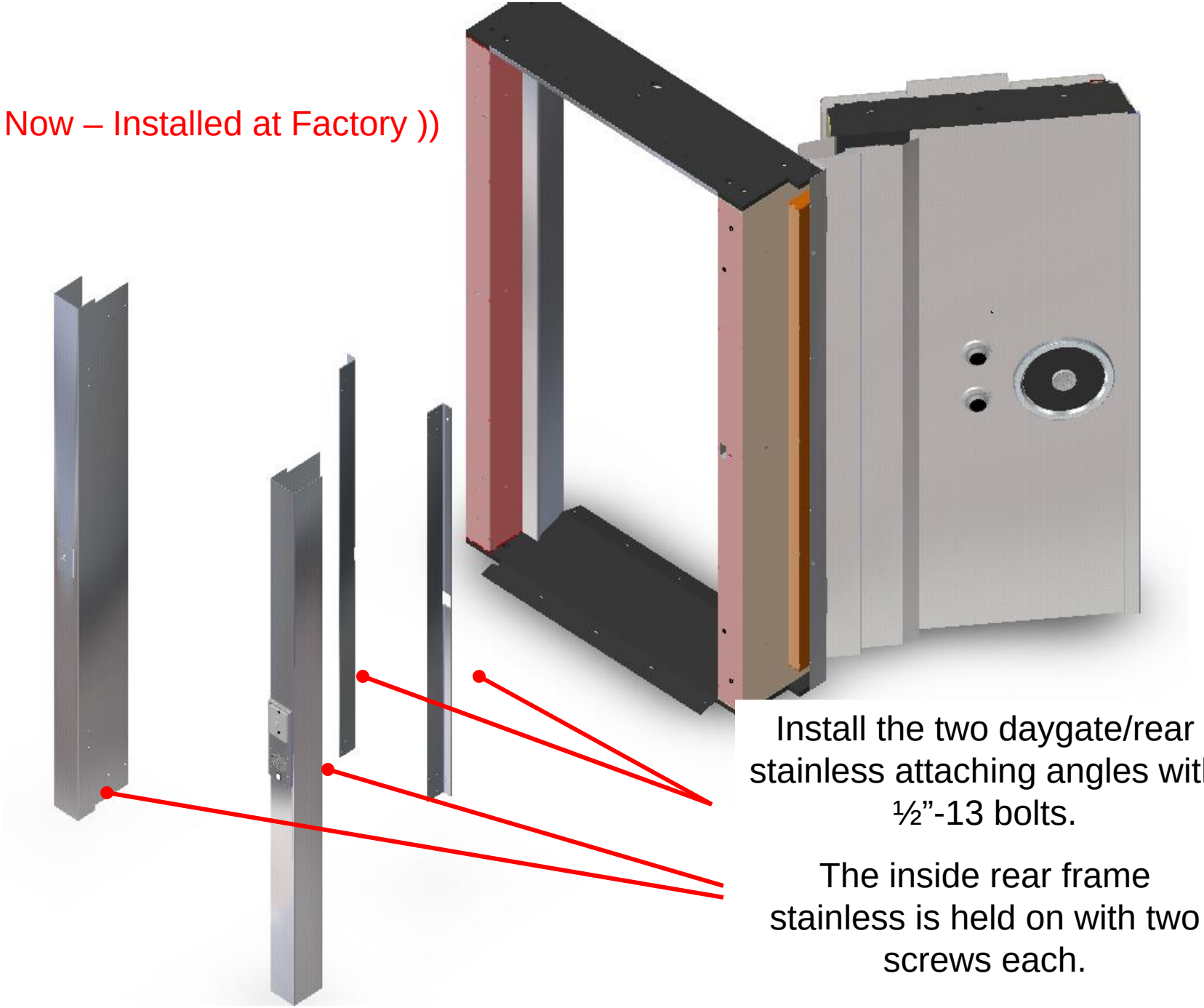
The front corner treatments are now shown installed.

IMPORTANT NOTE:

Factory recommended that all trim is installed during initial install.



((Now – Installed at Factory))



Install the two daygate/rear stainless attaching angles with ½”-13 bolts.

The inside rear frame stainless is held on with two screws each.

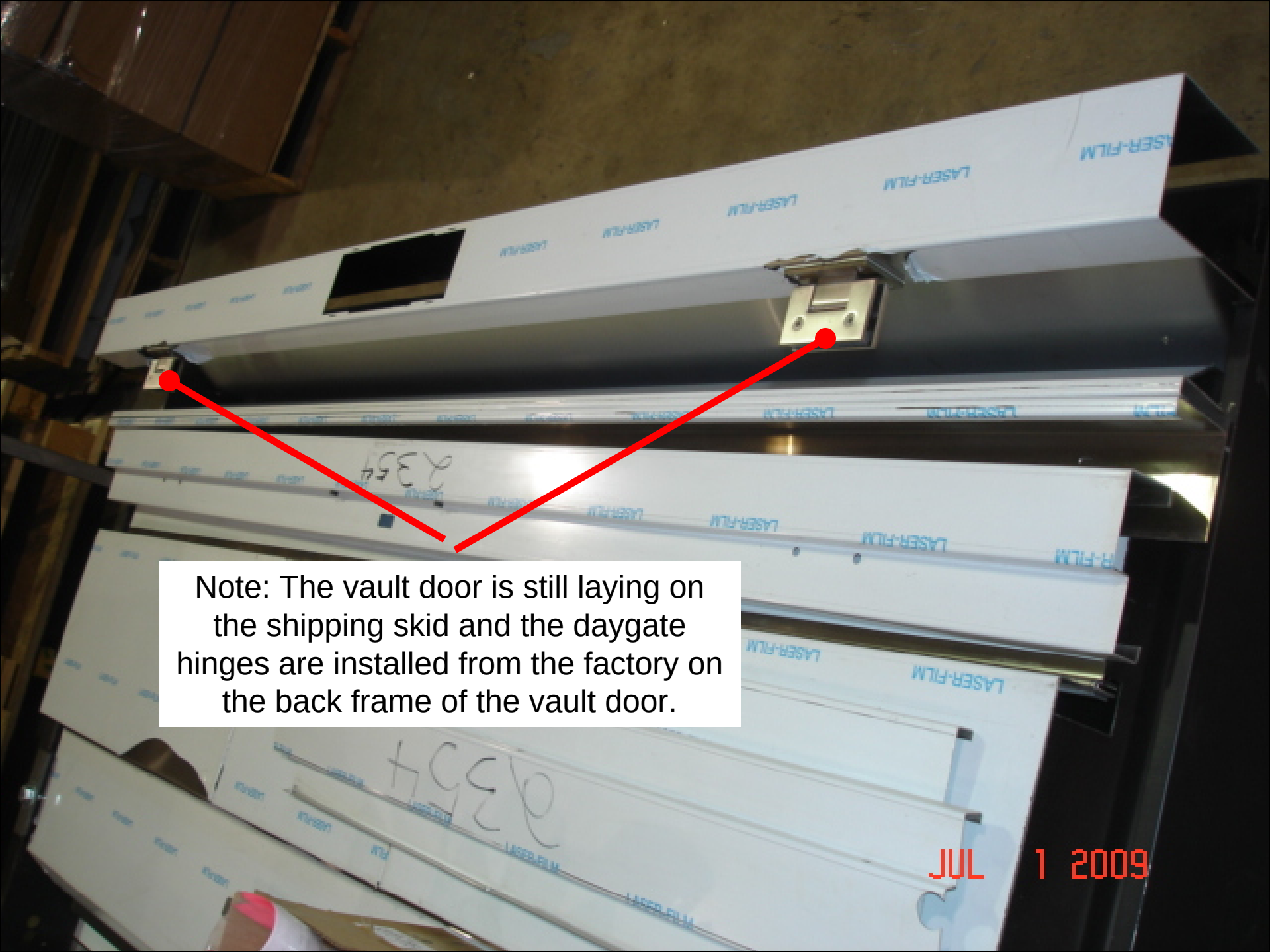
IMPORTANT NOTE:

Factory recommended that the threshold is installed during initial install. This allows the floor covering to be installed up to ***not under the threshold*** to allow for required clearance under door.

Door threshold is held in place with construction adhesive.

Installing the standard acrylic daygate

- Note: Factory recommends to install daygate after the modular vault has drywall and floor coverings installed
- Normally close to the opening date to avoid any damage.

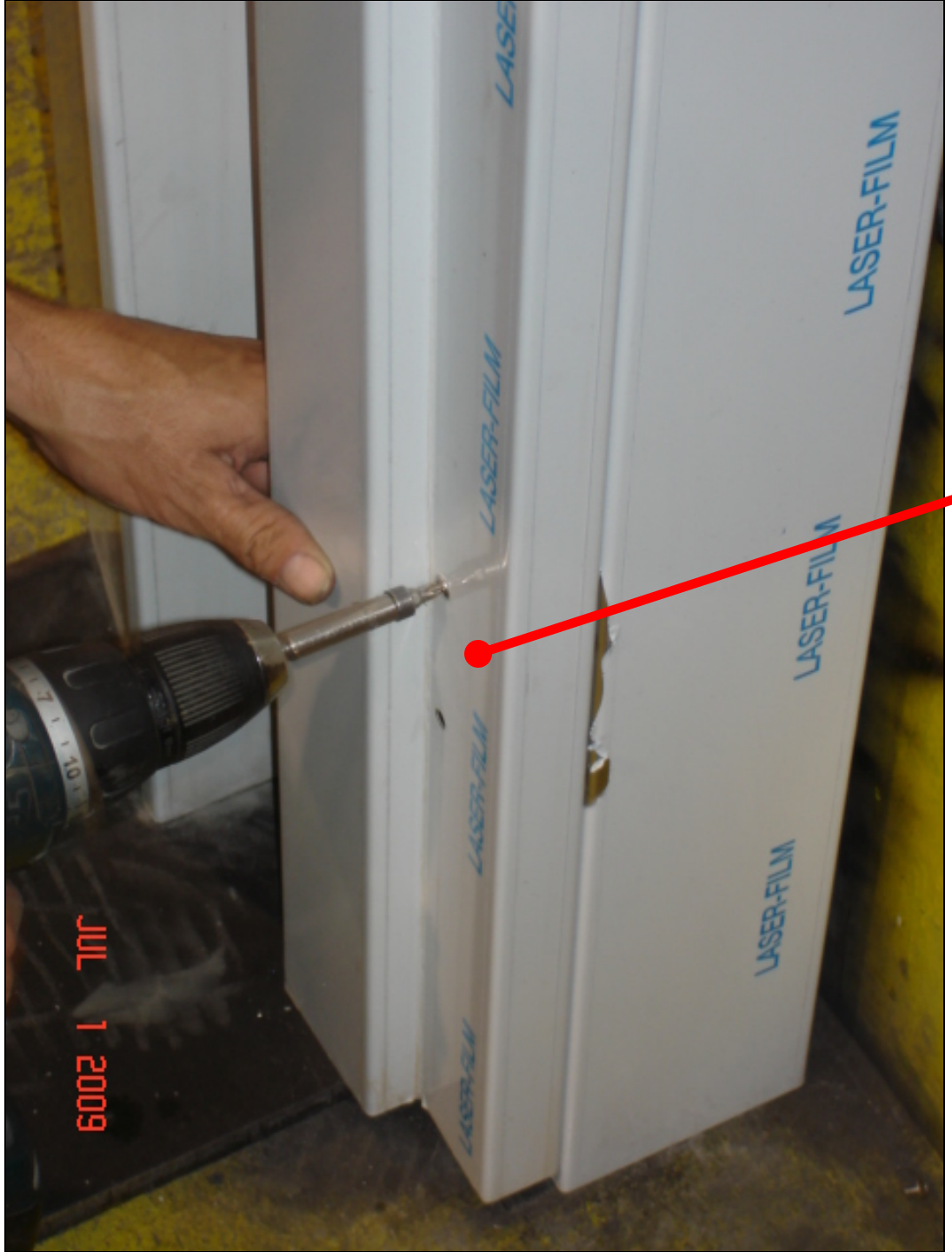

Note: The vault door is still laying on the shipping skid and the daygate hinges are installed from the factory on the back frame of the vault door.
JUL 1 2009

Note: The door is installed in the rough opening. The hinges are now in the correct position to mount the daygate.

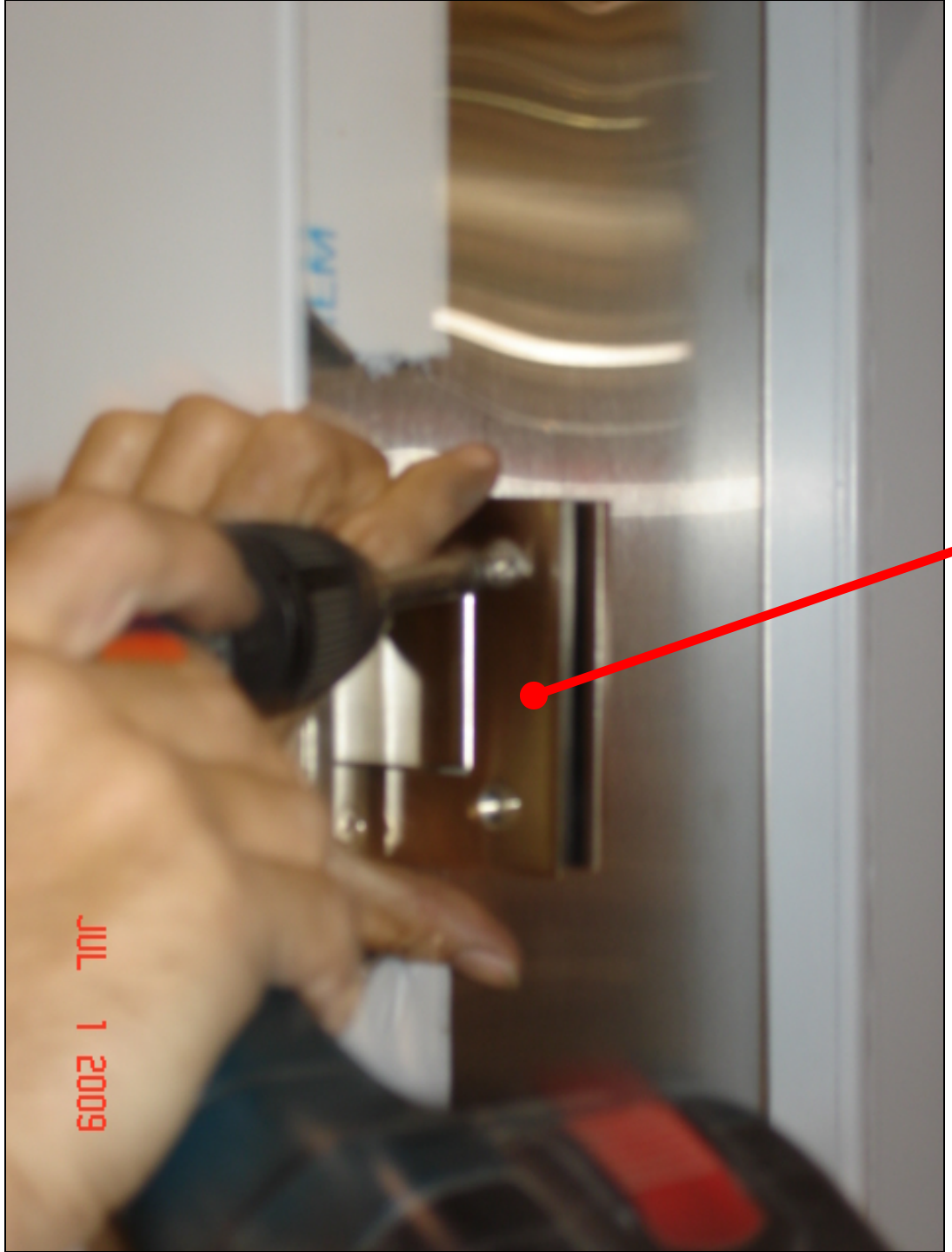
Note: The daygate strike needs to be installed prior to installing the daygate on the hinges.

Two screws at the top and bottom hinge location.

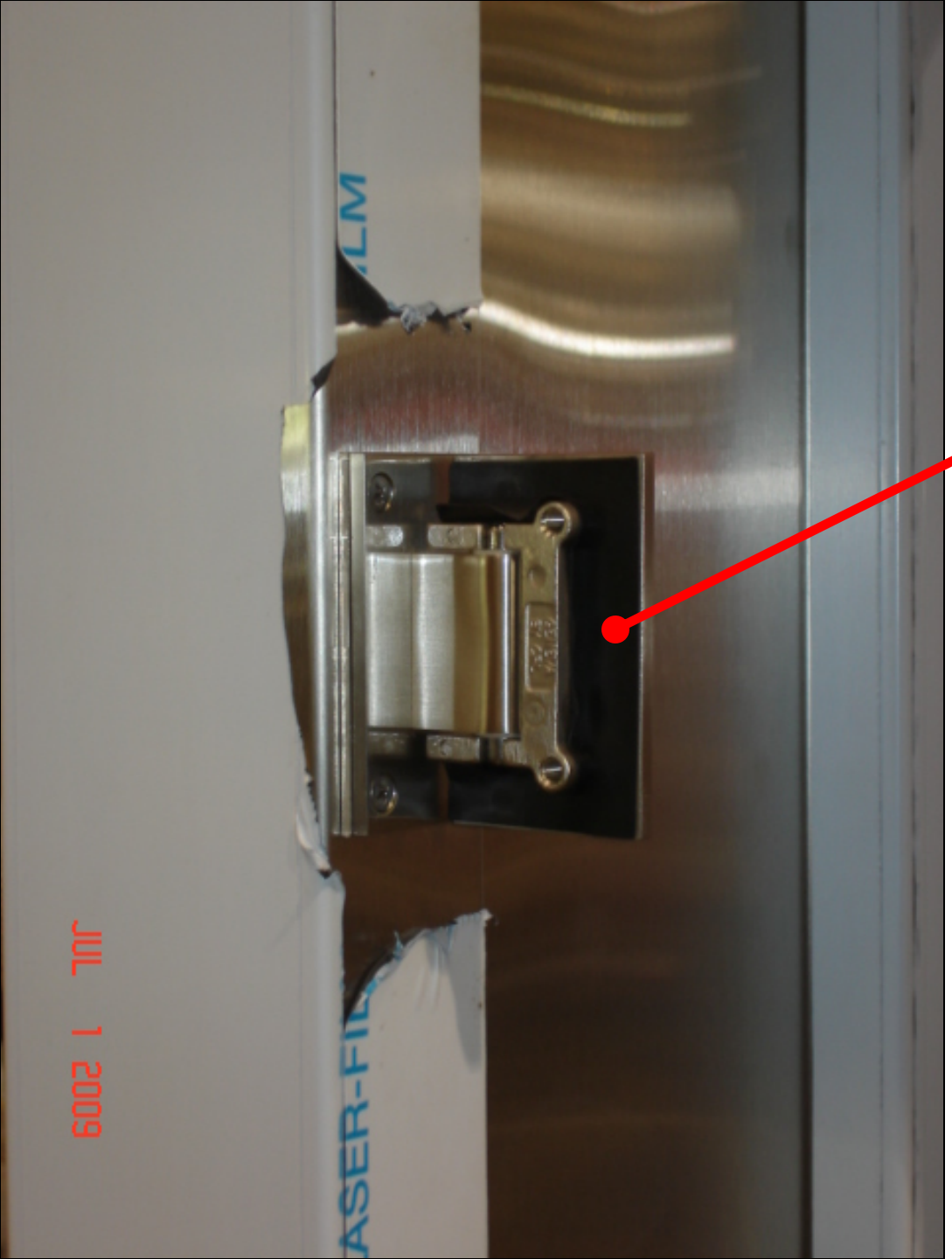
(Note: The daygate comes standard with the hinges mounted to the hinge side of the door. This can be reversed by relocating the hinges to the strike side and daygate strike to the hinge side of the door)



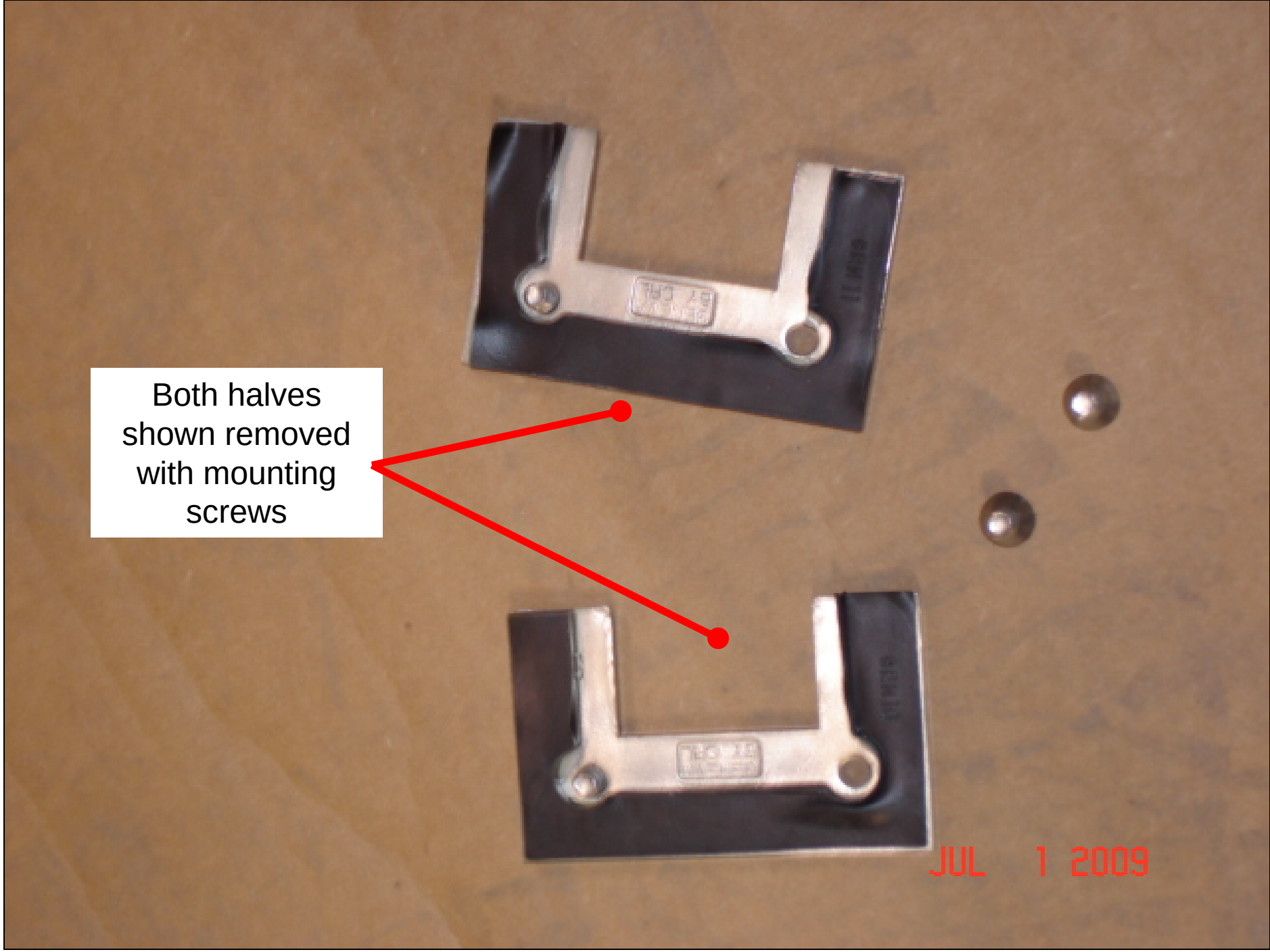
Note: Bottom hinge location.



NOTE: The door is ready for the daygate installation. First step is to remove one half of the top and bottom hinge.



Shown with half the hinge removed. The rubber gasket is installed on both halves from the factory.


Both halves shown removed with mounting screws
JUL 1 2009


Note: The use of wood block to carry the weight of the daygate. The wood block should measure 4 3/8” if you choose to use during installation.
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Lift daygate panel into place.
OPTIX
BY PLASKOLITE, INC.
PLASKOLITE, INC.
OPTIX
BY PLASKOLITE, INC.
PLASKOLITE, INC.
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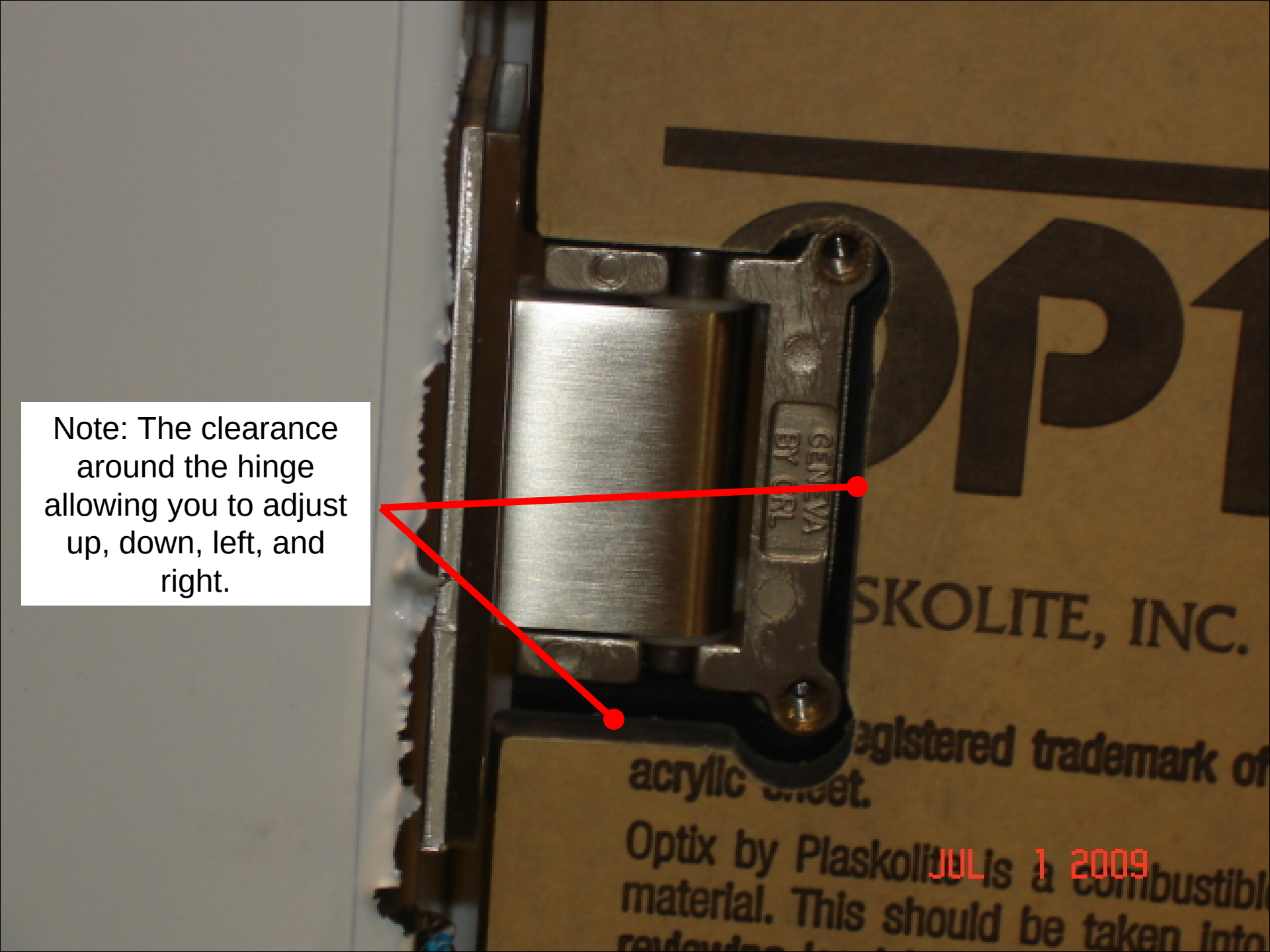
Position daygate prior to installing the inside half of the hinges.
OPTIX
PLASKOLITE, INC.
JUL 1 2009


Note: The clearance around the hinge allowing you to adjust up, down, left, and right.
SKOLITE, INC.
acrylic sheet.
material. This should be taken into
JUL 1 2009


Note: Now you can install the top inside half of the hinge.
OPTIX
BY PLASKOLITE, INC.
PLASKOLITE, INC.
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Note: Install the inside half of the bottom hinge.
JUL 1 2009

Note: The picture is showing normal gaps on the strike side of the daygate.

LEGACY VAULT DOOR DAYGATE CLOSER INSTRUCTIONS

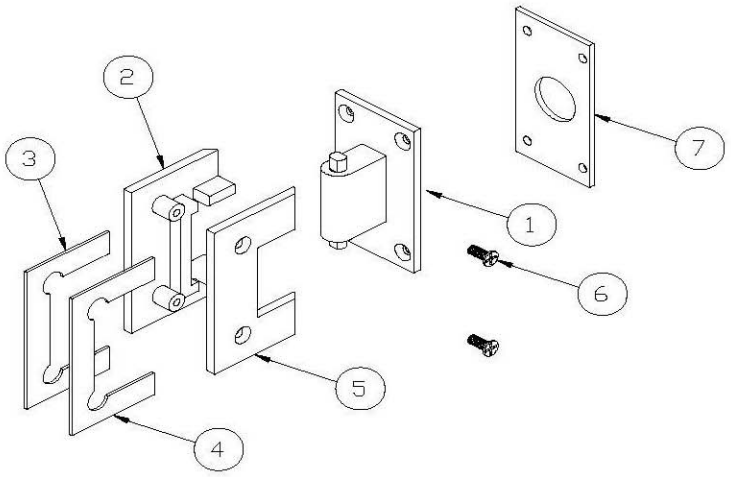

Figure 1

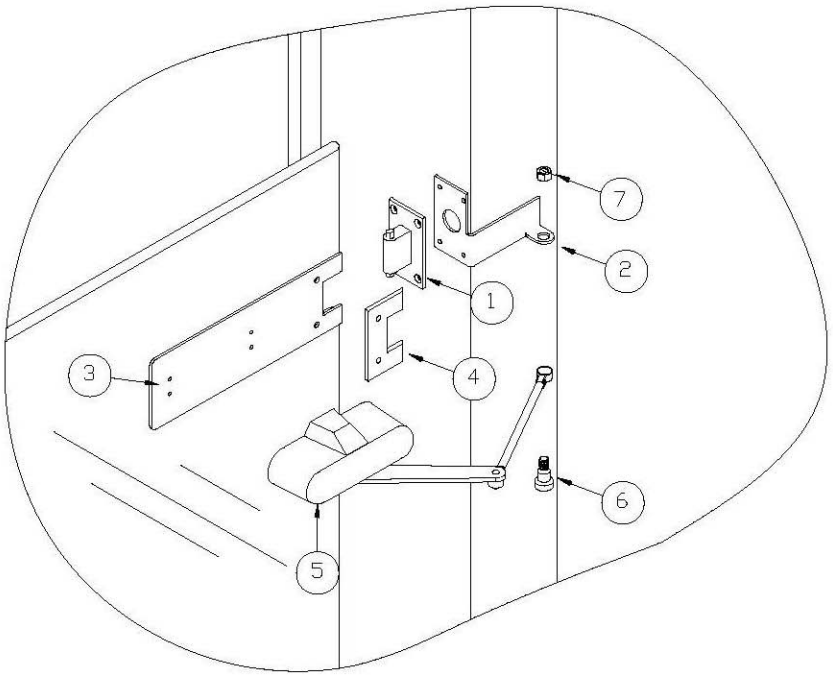

Figure 2

1. Remove Daygate (if installed)
2. Remove Hinges from Jamb opening of Frame
3. Attach new hinge supplied using 4 new 10-32 flathead screws supplied and new hinge spacer (Figure 1 #7) to bottom hinge mounting holes (be sure to always

place rubber gaskets Figure 1 #3 and #4 between glass and metal contact surface), (making sure that the piece with the two screw heads (Figure 1 #5) are facing the inside of the vault)

4. Attach new hinge supplied using 4 new 10-32 flathead screws supplied and Daygate closer hinge spacer (Figure 2 #2) to top hinge mounting holes (making sure that the piece with the two screw heads (Figure 1 #5) are facing the inside of the vault)
5. (Left swing shown make sure tab with hole (Figure 2 #2) is in the downward position, for right swing doors make sure tab with hole (Figure 2 #2) is in the upward position) (be sure to always place rubber gaskets Figure 1 #3 and #4 between glass and metal contact surface)
6. Now that both hinges are attached to the Jamb of Frame remove the two screws and plate from hinges, Figure 1 #5 and #6 and gasket Figure 1 #4
7. Replace Daygate (be sure to always place rubber gaskets Figure 1 #3 and #4 between glass and metal contact surface)
8. Attach Bottom hinge plate and screws Figure 1 #5 and #6
9. Attach Top hinge plate over Daygate closer mounting plate Figure 2 #3 (once again being sure to always place rubber gaskets Figure 1 #3 and #4 between glass and metal contact surface)using 2 new M6 x 20 flathead screws supplied
10. Attach Daygate Closer Figure 2 #5 to Daygate mounting Plate Figure 2 #3 (using screws supplied)
11. Attach Closer link arm to hinge spacer bracket Figure 2 #2, using shoulder bolt Figure 2 #6 and nut Figure 2 #7 (It may be necessary to relocate link arm from top to bottom of closer depending on swing Figure 2 #5)