



Introduction

This manual provides information required to perform installation, repairs, and required maintenance to the Thermoseal Frames and Doors. This manual is intended as a written guide for personnel who are properly trained and qualified to safely use a variety of different equipment and tools required during the installation, repairs, and performing maintenance of the Thermoseal Frames and Doors.

All personnel/contractors assigned to install Thermoseal Frames and/or Doors must read this manual in its entirety as one of the steps in being certified to install and work on Thermoseal doors. Failure to read and thoroughly understand the material contained in this manual may ultimately result in damage to the equipment, and injury to personnel, and could void the warranty.

The components and systems described in this manual may be operated only by personnel qualified for the specific task by the relevant documentation, warning notices, and safety instructions. Qualified personnel are those who, based on their training and experience can identify risks and avoid potential hazards when working with these types of components and systems.

Proper use of Thermoseal Products

Thermoseal products may only be used for the applications described in the catalog and the relevant technical documentation. If products and components from other manufacturers are used, these must be recommended or approved by Thermoseal. Proper transport, storage, installation, assembly, commissioning, operation, and maintenance are required to ensure that the products operate safely and without any problems. The permissible ambient conditions must be complied with.

INSTALLATION & SERVICE MANUAL

AUTOMATIC LOCKS

Safety and Warnings



BEFORE YOU BEGIN

Read instructions completely and carefully.

WARNING: TO REDUCE THE RISK OF FIRE, ELECTRICAL SHOCK OR INJURY, OBSERVE THE FOLLOWING:

- 1) Use this unit in the manner intended by the manufacturer.
- 2) Before servicing or altering, switch power off.



For use inside a commercial refrigeration case with packaged foods only.

FOR YOUR SAFETY

Read and observe all CAUTIONS and WARNINGS

shown throughout these instructions. While performing installations described; gloves, safety glasses or goggles should be worn.



PREPARE ELECTRICAL WIRING

Electrical requirements

This appliance must be supplied with 120V, 60 Hz, and connected to an individual and properly grounded branch circuit, protected by a 15 or 20 ampere circuit breaker or time delay fuse.

Grounding Instructions – Cable Direct

This lighting system must be connected to a grounded metal, permanent wiring system, or an equipment grounding connector must be run with the system conductors and be connected to the equipment grounding terminal or lead on the lighting fixture.

PROTECTIVE GEAR NOTICE

	<p><i>Protective Eyewear– Potential risk of eye injuries, protective eyewear required when performing this, and any other associated tasks.</i></p>
	<p><i>Protective Gloves– Potential risk of injury to your hands, protective gloves required when performing this, and any other associated tasks.</i></p>
	<p><i>Footwear Protective – Potential risk of injury to your feet, wearing protective footwear is required when performing this and any other associated tasks.</i></p>



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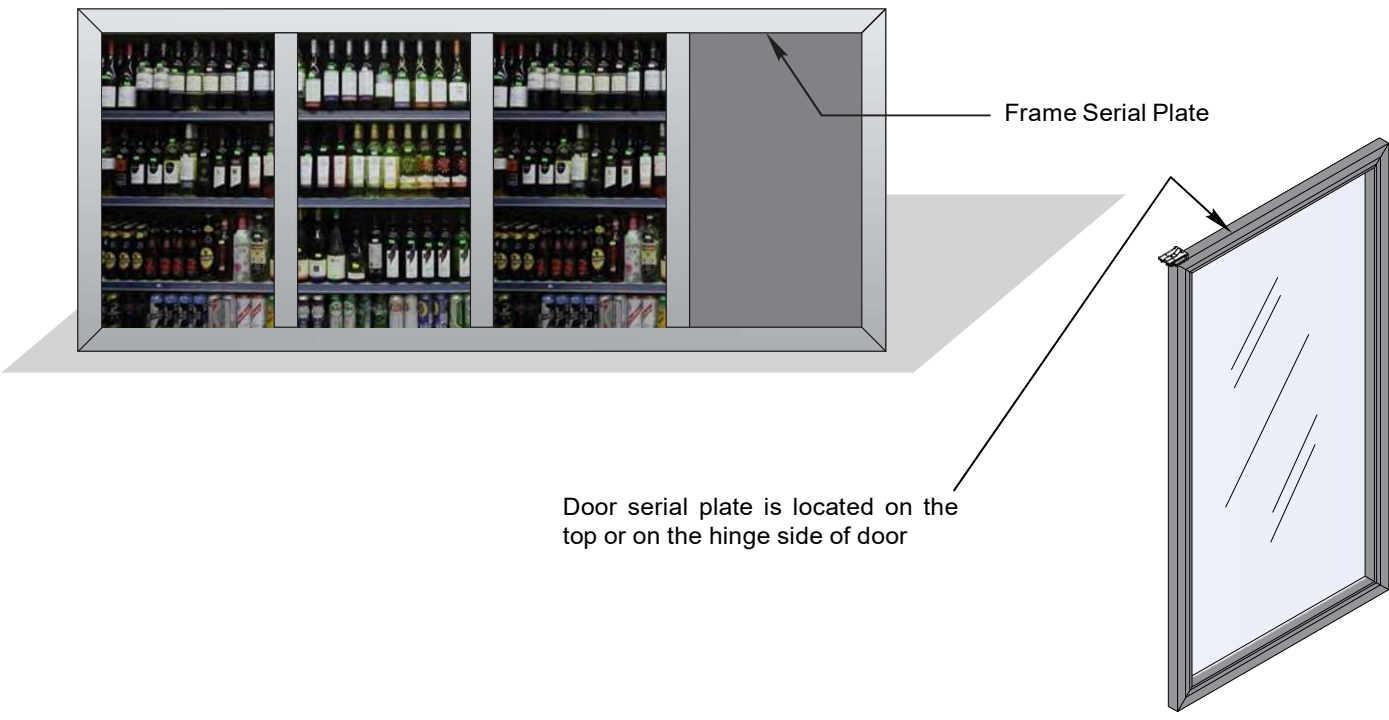
AUTOMATIC LOCKS

SERIAL PLATES

To assist our customer with technical information or ordering spare parts, frames and doors have a serial plate which informs about model number, part number, manufacture date, work number and electric ratings.

WO#: D57600-1	Model - SN	ELECTRICAL VAC: 115 / HZ: 60 Ø: 1							 Irving, TX
CPart#: PRD-1115G	1400T-MT-2774-DR	DOOR A: 0.07	OHM ACT: _____	macrotek 3014715	intertek 3014746	E71266			
Date Of Mfg: 7/12/2023	Actual Size: 26.38 X 73.06	FRAME A:	OHM ACT: _____	Conforms to NSF STD 2 & UL STD 471 Certified to CSA STD C22.2 # 120					
Schd-Unit #: 41224-68	Door Swing: RH	LIGHT A:							

Electrical safety, and sanitation certified by an approved third party certification agency



FRAME INSTALLATION

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Installing the Frame Assembly into the Net Opening

Read instructions completely before installing frame.

1. The clearance between the frame sill and the bottom of the case or floor is mandated by local building codes.
2. The sill of the net opening must be a minimum of two (2) inches in height.
3. The sill must also be completely level.

Before installing the frame, confirm that the size of the net opening accommodates the finished frame. If the tolerances are too tight, the net opening will have to be enlarged.

Measure the size of the net opening and the size of the finished frame.

1. Subtract the frame height measurement from the net opening's height measurement.
2. Subtract the frame width measurement, from the net opening's width measurement.
3. Divide each number in half. This is the amount of gap that will occur between the frame and the net opening.

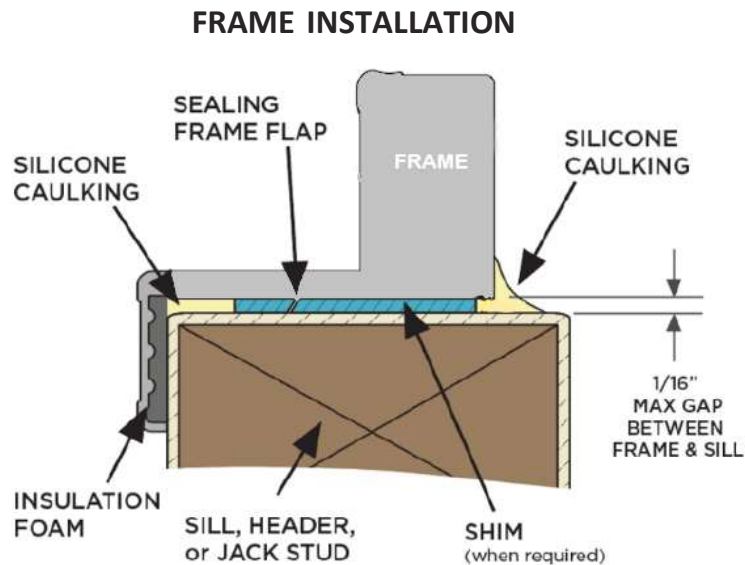
If there is a gap greater than 1/16" of an inch between the frame and the net-opening, then shim(as required) the gap.

SHIMMING(as required)

1. Acquire sturdy, penetrable material, such as plywood. The thickness of the material should be wedge shaped or slightly less than the gap to be filled.
2. Measure the length of the gap (height or width of frame) and cut the shim material to 1/16" of an inch less than the measure length.
3. Install the shim using the same type of mounting hardware that will be used to install the frame. Be certain that the shim installation hardware will not interfere with the frame installation hardware.
4. If necessary, cut a second shim to the same length and install it in the opposite side of the net opening.
5. If the adjacent sides of the net opening need to be shimmed, repeat the previous steps, matching the shim length of the frame sides of the net opening (less 1/16" of an inch).


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AUTOMATIC LOCKS



Confirm the net-opening conforms to openings listed in price book or original order.

- Insert the finished frame assembly into the net opening. If the fit is too tight, **DO NOT** force the frame.
 - Insert a mounting screw into a mounting hole in each corner of the frame and tighten each screw until it is approximately a quarter inch from flush.
 - Check and confirm that the frame is square.
 - Using a 25 foot measuring tape, measure diagonally from one corner to the opposite corner, noting the distance.
 - Measure the distance between the remaining two corners.
- Both measurements should be the same, within a 1/16" of an inch difference.
- Confirm that the frame and frame flanges are plumb to the surface of the wall around the net opening.
 - Place a level on the top flange of the header frame to check header level.
 - If the top of the frame (Header Frame) is sagging or bowing, correct as necessary.
 - When the frame is square and plumb, tighten all mounting screws securely until each is flush to the surface of the frame.

WARNING	
	<p><i>Warning: DO NOT over tighten screws onto the frame, as this may cause bowing, sagging, or the frame to become out of square. This will cause installation issues with Door's proper function. Adjusted the frame as needed to ensure it is square and free of bowing and sags.</i></p>

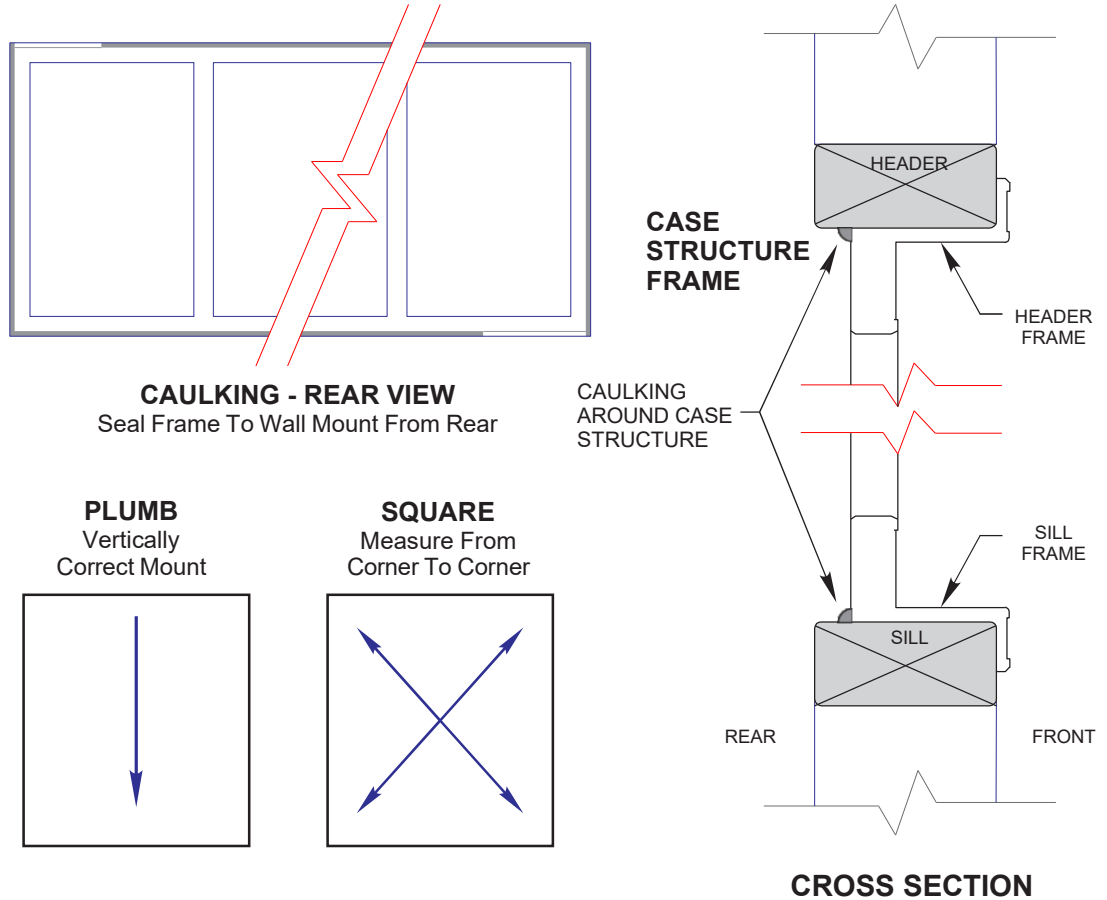
INSTALLATION & SERVICE MANUAL


AUTOMATIC LOCKS

FRAME INSTALLATION

Check entire frame to ensure installation is correct.

Seal the gap between the frame and the surrounding wall, inside the case, cooler or freezer using a caulking gun and NSF approved food grade silicone sealant (RTV-108). Not following these procedures can void Thermoseal Service & Warranty on condensation and ice build-up issues. Once Silicone Sealant is cured double-check for any remaining gaps that require more sealant.



WARNING	
	<p><i>Warning: Use only food-grade silicone sealant (add caulking for larger gaps) to seal the gap between the frame and the surrounding wall, inside the case, cooler or freezer. Not following these procedures can void Thermoseal's Service & Warranty on condensation and ice build-up issues.</i></p>

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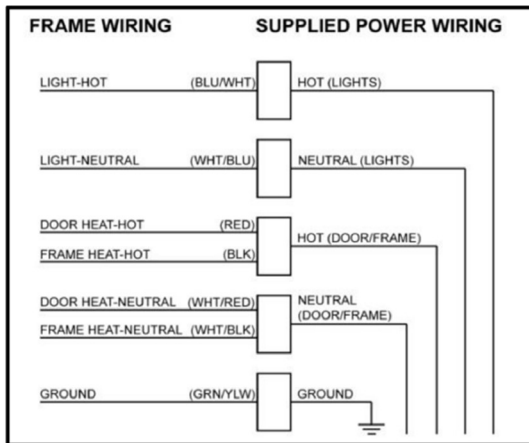
AUTOMATIC LOCKS




Frame Electrical Wiring Connections

The individual wires that extend from the flexible conduit on top of the frame, provide electrical power to various frame and door functions. Refer to the wiring ID tags attached to the wire leads.

Using NEC approved wire connectors, these wires should be grouped by the Hot wires (or Circuit wires), the Neutral wires and the Ground wire for connection to either the facility or the case power.

- Blue/White wire connects to the supplied Hot(or light Circuit Wire)
- White/Blue wire connects to the supplied Light neutral wire.
- Red and Black wires connect to the supplied Hot(or Door/Frame Heater Circuit Wire).
- White/Red and White/Black wires connect to supplied neutral wire for the Door/Frame circuit.
- Green/Yellow wire connects to the supplied ground wire.



WARNING	
	<i>Stop: Wiring for lights should have a separate circuit from the door/frame heater wiring circuit.</i>
WARNING	
	<i>Warning – To reduce the risk of fire, electrical shock or injury observe the following:</i> <ul style="list-style-type: none"> - Use this unit in the manner intended by the manufacturer. - Turn the power off before removing the existing lighting system and follow appropriate lockout/tag-out safety procedures
WARNING	
	<i>Risk of Electrical Shock– Potential risk of Electrical Shock; pay close attention to instructions when performing this and any other associated tasks.</i>

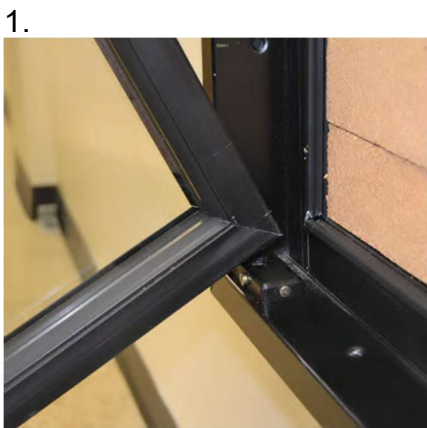
DOOR INSTALLATION

1. Handling each door carefully, install them into the frame, one at a time by inserting the torque rod-end into the cavity of the torque adjuster.
2. Tilt the top of the door up and toward the frame, inserting the hinge pin into the GIB (Guide In Bracket), located in the top of the door frame making sure that the spring clip engages into the upper frame rail.

Note: Make sure the clip fully engages into the frame. If the clip is not installed correctly the door could fall out.

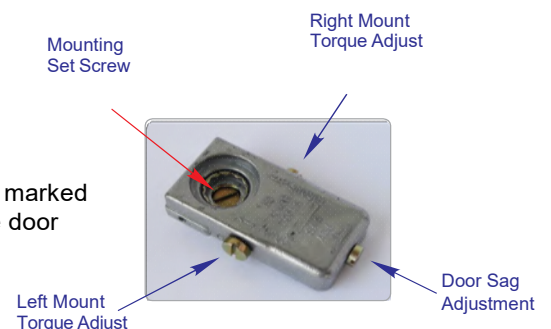
3. Insert the hold-open bolt through the elongated hold-open slot and into the frame mounting hole. Tighten with a phillips-head screwdriver.
4. Adjust the door swing and door squareness by adjusting the door closer. (see Torque and Sag Adjustment below)


WARNING	
	<p><i>WARNING: DO NOT use power tools to install and secure the hold-open screw.</i></p>



Torque and Sag Adjustment

1. The torque adjuster regulates the door squareness and tension of the door swing.
2. Use the flathead screwdriver; adjust the torque rod tension by turning the outside screw on the torque adjuster.
 - Turn counter-clockwise to increase tension.
 - Turn clock-wise to decrease the tension.
3. Adjust the door sag to square it in the frame by turning the screw that is marked SAG ADJ. (sag adjustment), on the end of the torque adjuster, until the door slowly closes itself.
4. Turn the screw clockwise to lower the handle side of the door.
5. Turn the screw counter-clockwise to raise the door's handle side.



WARNING	
	<p><i>Warning: Exercise caution when handling the door and DO NOT use power tools when adjusting the Torque Master™.</i></p>

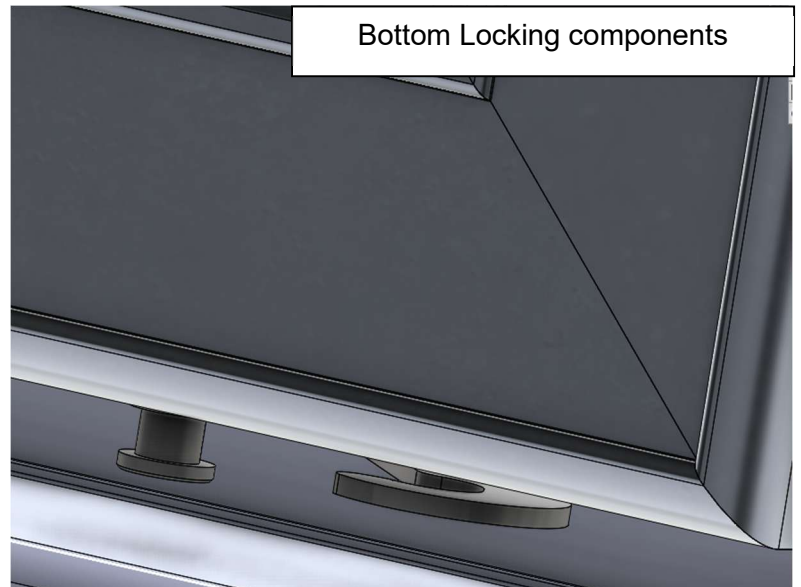
Locking components for functionality

1. Verify the location from the top and bottom locking components (door pin** and frame hook latch) for any adjustability which are located at the handle side of each door.
2. Swung each door to open and closed position repeatedly. Check the top and bottom locking components for any adjustability required. If adjustability is required, use the Torque and adjustment instructions 3,4,5 (as shown on page 8) until the alignment of the door pin** and frame hook latch is position correctly.
3. Using the key fob switch from unlock to lock check each door if the connection between the door pin** and frame hook latch are properly adjust.

****Note:** The top door pin screw (LBR-9931-470) is longer shoulder length than bottom door pin screw (LBR-9931-471) which is shorter.



Top Locking components



Bottom Locking components



Key Fob Switch

CABINET & TUBE FITTING CONNECTION INSTALLATION

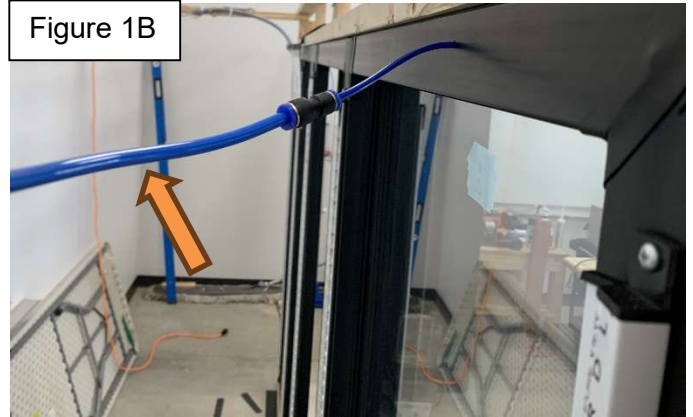
Step 1: The steel metal cabinet (Figure 1A) must be remotely mounted to the wall near the access of the blue tubing connection exiting out the upper left corner of the frame (See figure 1B) using self drilling screws(not provided).

Figure 1A



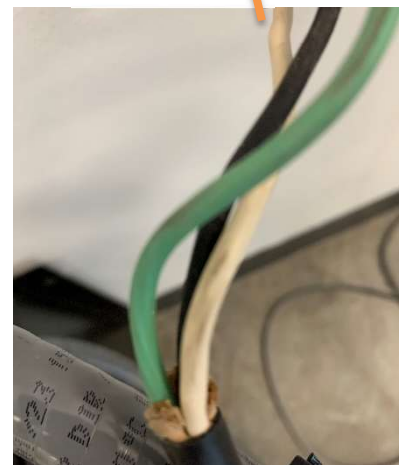
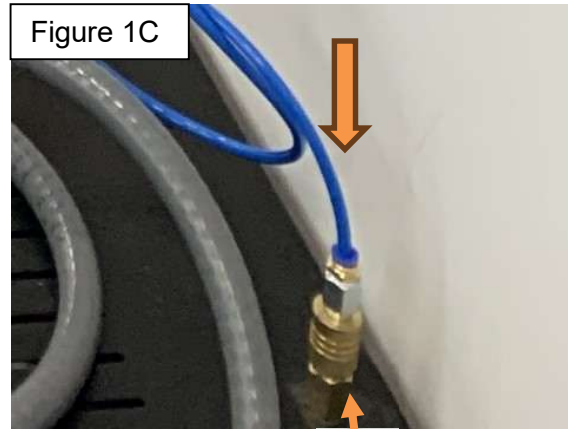
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Figure 1B




Step 2: Connect the blue tubing from the frame(Figure 1B) into the cabinet and push down into the fitting as shown in Figure 1C. **Note:** To disconnect, push the release ring and pull the tubing out of the fitting.


Figure 1C



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Step 3: Connect the green(Ground) wire, black(Hot) wire, and white(neutral) into the case power. The electrical line into the cabinet will be 120 VAC 15 amp line.

WARNING	
	<p>Warning – To reduce the risk of fire, electrical shock or injury observe the following:</p> <ul style="list-style-type: none"> - Use this unit in the manner intended by the manufacturer. - Turn the power off before removing the existing lighting system and follow appropriate lockout/tag-out safety procedures

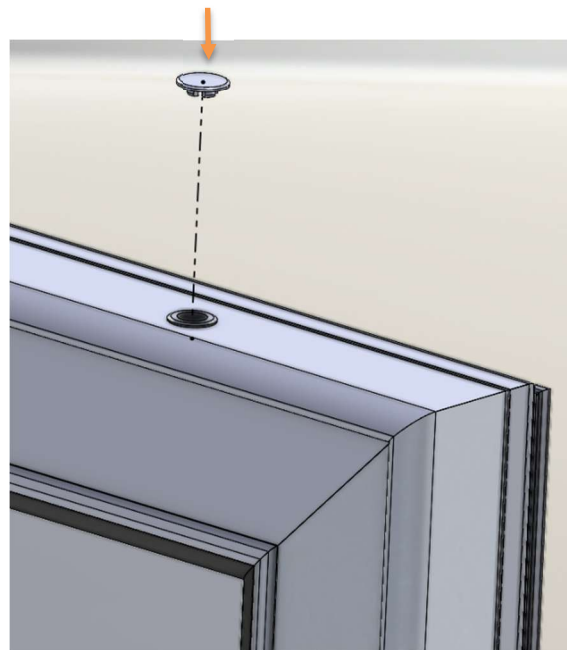
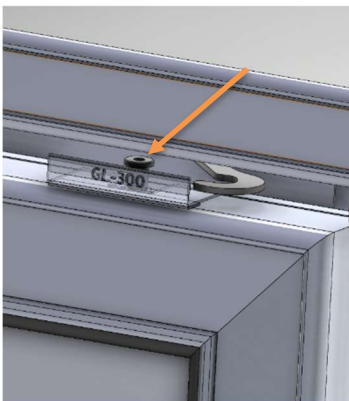
WARNING	
	<p>Risk of Electrical Shock– Potential risk of Electrical Shock; pay close attention to instructions when performing this and any other associated tasks.</p>

Step 4: Turn the red knob into the “I” position to start the compressor unit as shown. Note: The “O” position the compressor is turn off.



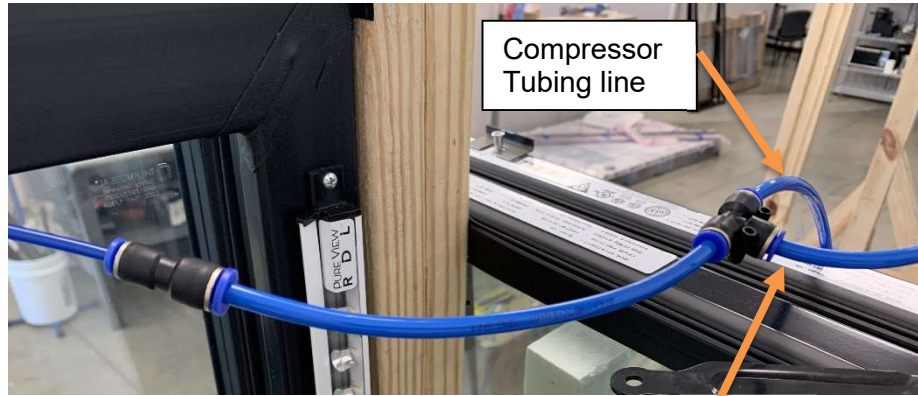
Automatic Door Feature Removal

Choose the door(s) to remove the automatic feature components from the top and bottom of the door. Turn the pin(stud) counterclockwise of the top and bottom of the door. Remove the pin(stud) and replace it with the snap-in plug (LBR-9941-462) by pushing downward with your index finger into the rivet nut hole as shown below.



MULTIPLE FRAMES TUBE FITTING CONNECTION INSTALLATION

Use the 3 way connector fitting near the reducer connector fitting to transition into other frames. Cut the necessary tubing length and follow the schematic for connecting the tubing into the T-connector fitting and elbow connector fitting to close out the last frame.



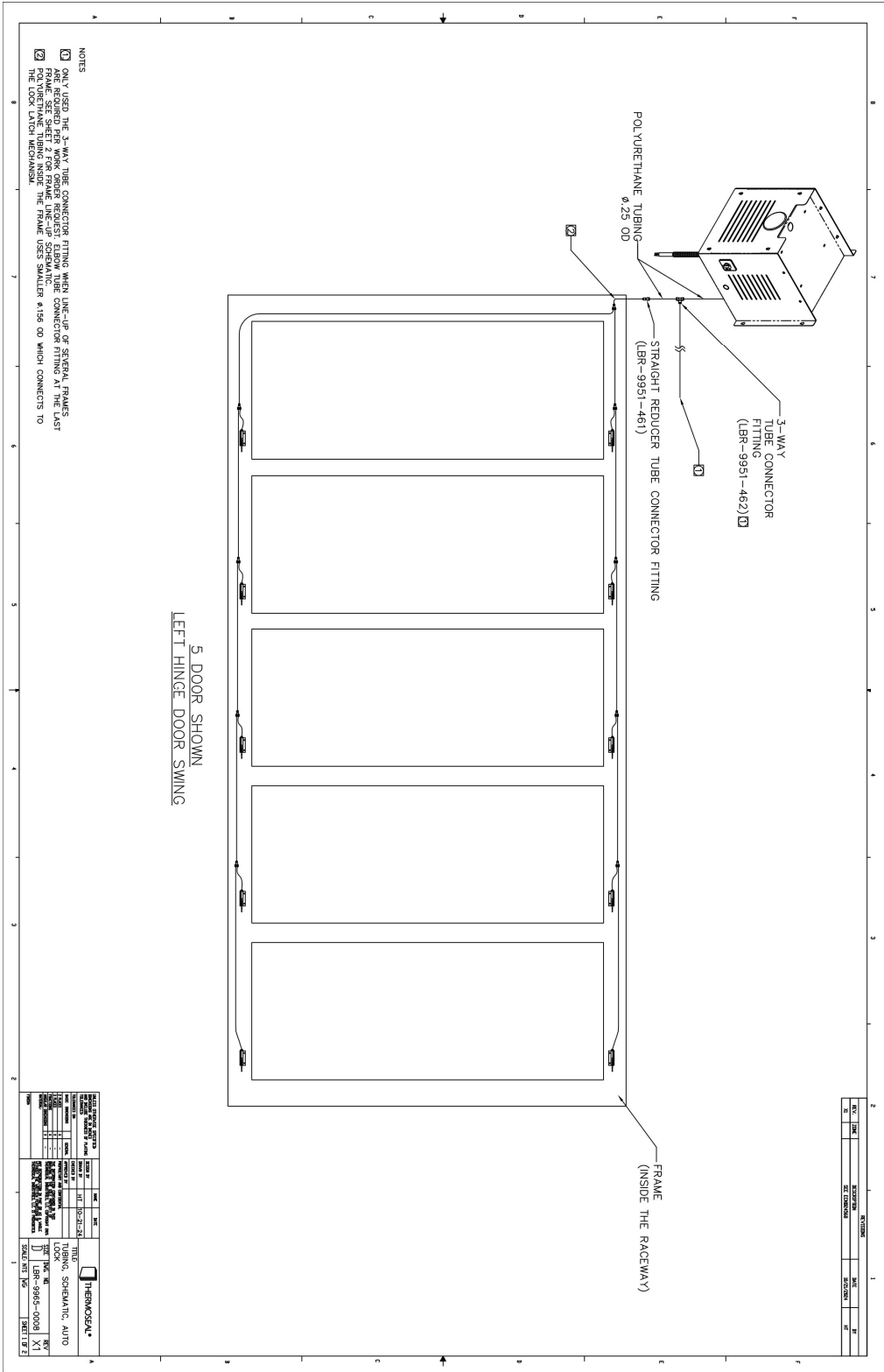
Compressor
Tubing line

Multiple
frames
Tubing line



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RESET FOR AUTOMATIC LOCKS COMPRESSOR UNIT



Turn off power to the compressor unit



Slightly loosen the four screws



Remove the panel



Push the reset button



Install the panel and tighten screws



Turn on compressor



INSTALLATION & SERVICE MANUAL AUTOMATIC LOCKS

Revision History

REV	ORIGINATOR	DESCRIPTION OF CHANGE	DATE
A	HT	SEE ECN1024568	10/25/2024
B	HT	SEE ECN0525663	5/19/2025
C	HT	REMOVE THE SENNECA LOGO AND WARRANTY PAGE	12/8/2025
D	HT	ADDED THE RESET COMPRESSOR UNIT INFORMATION	1/13/2026