



FLM-54/54F~TSL01



FLM-81/81F~TSL01

**⚠ WARNING!**



**Be sure to read and fully understand** this document before installing, operating, maintaining or servicing this appliance. Failure to do so can result in appliance failure, property damage, serious injury or death. Appliance failure, injury or property damage due to improper installation is not covered by warranty.

**📌 USER ACTION!**

**TRUE tracks the history of your appliance** by its serial number. For easy reference, record your appliances full model name and serial number below. This information is on your serial label. Serial label location varies by appliance.

**Model Name:**

**Serial Number:**

**True Manufacturing Co., Inc.**

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**INSTALLATION MANUAL**

**FLM**

Translation of the Original Instructions

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# THANK YOU

## FOR YOUR PURCHASE

### Congratulations!

The primary purpose of this document is to assist the installation, maintenance, and servicing of your TRUE appliance. This document contains information important to safety, operation, maintenance, and servicing. **DO NOT** discard this document. TRUE is solely the appliance manufacturer. For assistance finding a qualified technician, please visit our Service Company Locator at [truemfg.com/support/service-company-locator](http://truemfg.com/support/service-company-locator).

**! NOTICE!**

!

Your appliance may not exactly match the figures shown in this manual.

### Contents

<b>Preface</b>		<b>Appliance Operation</b>	
Signal & Symbol Definitions .....	3	Startup .....	15
<b>Important Safety Information</b>		Temperature Control & Light Switch Location .....	16
Basic Safety & Operation Warnings .....	4	General Sequence of Operation .....	17
Personal Injury Warnings .....	5	<b>Maintenance &amp; Servicing</b>	
Hydrocarbon Refrigerant Warnings .....	6	Component Replacement .....	19
Appliance Disposal Warnings .....	6	Recommended Maintenance .....	20
Electrical Safety Warnings .....	7	Condenser Coil Cleaning .....	22
<b>About Your Appliance &amp; Installation Requirements</b>		Important Warranty Information .....	24
Appliance Specifications .....	8	General Surface Care & Cleaning .....	24
Clearances .....	8	Stainless Steel Care & Cleaning .....	25
Electrical Requirements .....	9	8 Tips to Help Prevent Rust on Stainless Steel .....	26
Electrical Installation & Safety .....	9	Reversing the Sign Deflector .....	27
<b>Installation &amp; Setup</b>		<b>Warranty</b>	
Uncrating .....	10	Warranty Information (USA & Canada Only) .....	28
Appliance Location .....	12		
Leveling Screw Installation .....	12		
Leveling the Appliance .....	13		
Sealing the Appliance to the Floor .....	13		
Shelf Installation .....	14		

# Preface

The warning, guidelines, and recommendations within this document are meant to prevent appliance damage, injury, or death. Please carefully read all warnings, guidelines, and recommendations before proceeding to ensure the continued safe use and maintenance of your TRUE appliance.

## Signal & Symbol Definitions

Below are symbols you may see in this document. Some symbols may not appear.

Signal Word Definitions	
 <b>DANGER!</b>	An imminently hazardous situation which, if not avoided, will result in serious injury or death.
 <b>WARNING!</b>	A potentially hazardous situation which, if not avoided, can result in serious injury or death.
 <b>CAUTION!</b>	A potentially hazardous situation which, if not avoided, may result in minor or moderate injury; an unsafe practice.
 <b>USER ACTION!</b>	User action alert, follow all recommendations to avoid appliance or product damage.
 <b>NOTICE!</b>	Important information not related to hazards or risk of personal injury.

Safety Symbols	
	<b>Safety alert;</b> alerts reader to potential physical injury hazards. Obey all safety messages following this symbol to avoid possible injury or death.
	<b>Flammable material;</b> fire hazard.
	<b>Electrical shock</b> hazard.
	<b>Tipping hazard;</b> tip-over hazard.
	<b>Sharp element;</b> cut or sever hazard.
	<b>Eye hazard;</b> risk of eye injury.
	<b>Exploding pressurized cylinder</b> hazard.
	<b>Slippery surface</b> hazard.
	<b>Crush or cut</b> hazard.

Additional Symbols	
	<b>Mandatory action alert symbol;</b> alerts reader to required or recommended actions. Obey all messages and recommendations following this symbol to avoid appliance or product damage.
	<b>Important information</b> not related to hazards or risk of personal injury.
	<b>Review and understand</b> the installation manual before installing, operating, or servicing.
	Wear <b>eye protection</b> .
	Wear <b>protective gloves</b> .
	<b>Secure gas cylinders</b> to prevent falling cylinders.
	<b>DO NOT</b> use extension cord.
	<b>DO NOT</b> use adaptor plugs.
	<b>DO NOT</b> dispose of with other household waste.

## Important Safety Information

# Important Safety Information

### Basic Safety & Operation Warnings

Follow basic safety precautions, including the following, to reduce risk of personal injury, electric shock, fire, or death.

#### ⚠ WARNING!



**Be sure to read and fully understand this document before installing, operating, maintaining, or servicing this appliance. Failure to do so can result in appliance failure, property damage, serious injury, or death. Appliance failure, personal injury, or property damage due to improper installation is not covered by warranty.**

- Failure to install, operate, and maintain the appliance as detailed in this document will negatively affect safety, appliance performance, component life, and warranty coverage.
- The appliance must be installed in accordance with all applicable laws, codes, and regulations.
- The manufacturer cannot be held responsible for injury or damage resulting from improper, incorrect, and unreasonable use.
- This appliance is not to be used, cleaned, or maintained by persons (including children) with reduced physical, sensory, or mental capabilities or lack of experience and knowledge, without proper supervision or instruction.
- **DO NOT** install or operate equipment that has been misused, abused, neglected, damaged, or altered/modified from original manufactured specifications.
- **DO NOT** modify or alter the appliance. Improper alterations can result in electric shock, personal injury, fire, or death.
- **DO NOT** use electrical appliances inside the food storage compartments of the units unless the appliances are approved by the manufacturer.
- The appliance owner is responsible for performing a Personal Protective Equipment (PPE) Hazard Assessment and to ensure adequate protection during maintenance and cleaning procedures.
- Use appropriate tools, safety equipment, and PPE during installation and servicing.
- Only use the appliance for its intended purpose as described in this document. Failure to do so may result in equipment damage, personal injury, or death.
- Overloading, incorrectly installing, or improperly loading shelves can cause shelf failure (as well as negatively affect the appliance's operation), resulting in appliance damage, product damage, or personal injury.
- Keep the area surrounding the appliance clean to avoid appliance damage from debris or pests.

## Important Safety Information (cont.)

### Personal Injury Warnings

Only qualified technicians should install and service the appliance. For assistance finding a qualified technician, please visit our Service Company Locator at [truemfg.com/support/service-company-locator](http://truemfg.com/support/service-company-locator). TRUE is solely the appliance manufacturer and is not responsible for installation.

### ⚠ DANGER!

	<b>DO NOT</b> allow children to play with or in the appliance. Child entrapment or personal injury can occur.
	<p><b>DO NOT</b> store or use the following in the vicinity of this or any other appliance:</p> <ul style="list-style-type: none"> <li>Gasoline or other flammable vapors and liquids</li> <li>Combustible or explosive substances, such as aerosol cans with a flammable propellant</li> <li>Other volatile or flammable substances</li> </ul>
 	<p><b>Contact TRUE Manufacturing to locate refrigerant lines and electrical wiring</b> before drilling, cutting or puncturing interior or exterior walls. Failure to do so could result in damage, personal injury, or death.</p>

### ⚠ WARNING!

	<ul style="list-style-type: none"> <li><b>Only qualified technicians should install and service the appliance.</b></li> <li>Use appropriate tools, safety equipment, and personal protective equipment (PPE) during installation and servicing.</li> <li><b>DO NOT</b> touch the cold surfaces in the freezer compartment when hands are damp or wet. Skin may stick to extremely cold surfaces.</li> </ul>
	This product can expose you to chemicals including Di-(2-Ethyl hexyl) Phthalate (DEHP), which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to <a href="http://P65warnings.ca.gov">P65warnings.ca.gov</a> .
	<b>Slippery Surfaces!</b> Moisture from improper drainage can create slippery surfaces near the appliance. It is your duty to immediately warn your customers of, and dry, the slippery surface. All wet floor areas must be marked with a wet floor sign.
	<ul style="list-style-type: none"> <li><b>Sharp edges!</b> Take care when moving, installing, cleaning, servicing, and maintaining the appliance to avoid cuts. Be sure to take care when reaching under the appliance or handling metal components.</li> <li>Keep fingers out of pinch point areas, such as the space between appliance doors and surrounding cabinetry. Take care closing doors with children nearby.</li> </ul>
	<b>Tip over hazard!</b> Appliance may pose a tipping hazard when uncrating, installing, or moving the appliance. Take appropriate safety precautions. Use of tip over restraints may only reduce (not eliminate) the tipping hazard. Never allow children to climb or hang on drawers, doors, or shelves.
	<b>Crush or cut hazard!</b> Keep clear when uncrating, installing, moving, or servicing the appliance.
	<b>Risk of electric shock or burn!</b> See "Electrical Safety Warnings" for more information.

## Important Safety Information (cont.)

### Hydrocarbon Refrigerant Warnings

TRUE appliances use hydrocarbon refrigerant (R-290/513A/600a). Check the serial label to identify the appliance's refrigerant. Serial label location varies by model.

#### ⚠ DANGER!

	<p><b>Risk of fire or explosion! Flammable refrigerant used.</b></p> <ul style="list-style-type: none"> <li>All servicing and maintenance must be performed by qualified technicians. This is to minimize the risk of fire or personal injury due to incorrect parts or improper service.</li> <li>Check the serial label to identify the appliance's refrigerant. Serial label location varies by model.</li> <li><b>DO NOT</b> damage the refrigeration system during transportation and installation.</li> <li>If the appliance is damaged, verify the refrigeration system's integrity is not compromised before proceeding.</li> <li>Never use sharp objects or tools to remove ice or frost. <b>DO NOT</b> use mechanical devices to accelerate defrost.</li> <li>Dispose of in accordance with all applicable laws, codes, and regulations. Follow all safety precautions associated with handling flammable refrigerant.</li> <li><b>DO NOT</b> use electrical appliances inside the food storage compartments of the units unless the appliances are of the type recommended by the manufacturer.</li> </ul>
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### Appliance Disposal Warnings

#### ⚠ DANGER!

	<p><b>Risk of child entrapment!</b></p> <p>Children can get trapped inside discarded appliances and suffocate. Never dispose of your appliance without taking precautions to prevent child entrapment, even if the appliance only sits unattended for a short period of time.</p> <p><b>Child entrapment precautions include the following:</b></p> <ul style="list-style-type: none"> <li>Remove all doors (or drawers for drawer units).</li> <li>Leave all interior drawers and shelving in place to make climbing (and fitting) inside the appliance more difficult.</li> </ul>	
	<p><b>Risk of fire or explosion!</b> Flammable refrigerant and insulation used. Dispose of in accordance with all applicable laws, codes, and regulations. Follow all safety precautions associated with handling flammable refrigerant and insulation.</p>	
	<p><b>DO NOT</b> dispose of your appliance with household waste.</p>	

# Important Safety Information (cont.)

## Electrical Safety Warnings

### ⚠ WARNING!



**Risk of electric shock, burn, or fire!**



- It is the appliance owner's responsibility to ensure the electrical connection meets all applicable building codes. Failure to meet these code requirements can result in appliance damage, fire, electric shock or burns, serious personal injury, or death.
- Before connecting your appliance to the power supply, verify the supply voltage and circuit rating match the appliance. Correct improper supply voltage or circuit size immediately.
- Before connecting your appliance to the power supply, verify the power supply is correctly grounded. If the power supply is not grounded, correct immediately. TRUE recommends hiring a qualified electrician to inspect your wall outlet and circuit to ensure they are properly grounded
- **DO NOT** clean appliance with a pressure washer or hose. **DO NOT** immerse power cord in water.
- Powering off an electronic control or setting temperature controls to 0 (off position) does not remove power from all components. Unplug the appliance or turn off the power supply before installation or servicing.
- The appliance should receive power from its own individual dedicated electrical circuit. This provides the best performance and prevents overloading the power supply.
- **The original equipment manufacturer (OEM) power cord has a grounding plug to minimize the possibility of electrical shock.**
  - Never remove the ground prong from the power cord! For personal safety, this appliance must be properly grounded.
- **Never use an extension cord!** An extension cord is any component that adds length to the OEM power cord when connecting the cord to a power source.
- **Never use an adapter plug!** An adapter plug alters the OEM plug configuration when connecting the plug to a power source.
- **Never use a power cord that shows cracks or abrasion damage along its length or at either end.**
  - Immediately have a qualified technician replace damaged OEM power cords with OEM components.
  - Never unplug your appliance by pulling on the power cord. Always grip the plug and pull the plug straight out of the outlet.
  - Take care to prevent rolling over or damaging the power cord when moving the appliance.
  - Never use the power cord to prevent appliance movement. Always use adequate means to keep the appliance in place without transmitting stress to the power cord.
  - Keep power cord away from heated surfaces.
  - **DO NOT** let power cord hang over edge of table or counter.
  - **DO NOT** excessively bend or place heavy articles on the power cord.

### ⓘ NOTICE!



**TRUE will not warranty the following:**

- Compressor failures due to improper incoming voltage.
- Appliance with tampered OEM power cords.
- Appliance connected to adapters or extension cords
- For more details, see TRUE's full warranty statement..

# About Your Appliance & Installation Requirements

## About Your Appliance & Installation Requirements

**! USER ACTION!**

TRUE is not responsible for damage incurred during shipment. Always carefully inspect for freight damage before receiving and installing your appliance. If there is damage, note all damage on the delivery receipt, immediately file a claim with the delivery freight carrier, and contact TRUE. **Do not install the appliance or put it in service.**

Thank you for choosing TRUE Manufacturing to meet your refrigeration needs. TRUE highly recommends a qualified technician and electrician install your appliance to ensure correct installation. The cost of professional installation is money well spent. Only qualified technicians should install and service the appliance.

For assistance finding a qualified technician, please visit our Service Company Locator at [truemfg.com/support/Service-company-locator](http://truemfg.com/support/Service-company-locator). TRUE is solely the appliance manufacturer and is not responsible for installation.

The appliance owner is responsible for proper installation and maintaining the appliance as described in this document. Routine care and maintenance procedures are not covered by TRUE's warranty.

### Appliance Specifications

Some things to know about your appliance are as follows:

- Appliance is not for the storage and/or display of potentially hazardous foods when the temperature control is set above 41 °F (5 °C).
- Appliance is not suitable for an area where a pressure washer or hose may be used.
- Always plug the appliance into its own individual dedicated electrical circuit!

- **DO NOT** use extension cords or adapter plugs.
- Before connecting your appliance to the power supply, verify the incoming voltage ( $\pm 5\%$ ) and the amps match the operation ratings on the appliance's serial label. Correct improper incoming voltage or amps immediately. Serial label location varies by model.
- Before connecting your appliance to the power supply, verify the power supply is correctly grounded. If the power supply is not grounded, correct immediately.
- Ensure the installation location will provide adequate clearances and sufficient airflow for the cabinet. See "Clearances" (pg. 8).
- Read and follow all warnings and maintenance instructions. Failure to do so may result in damage and void the warranty on your appliance.

### Clearances

**! NOTICE!**

Warranty is void if ventilation is insufficient.

Be sure your unit has the required surrounding clearances for ventilation purposes. Keep all ventilation openings in the appliance enclosure or structure housing the appliance clear of obstruction.

Clearances			
MODEL	TOP	SIDES	BACK
FLM Freezer	0" (0 mm)	0" (0 mm)	3" (76.2 mm)
FLM Refrigerator	0" (0 mm)	0" (0 mm)	1" (25.4 mm)

# About Your Appliance & Installation Requirements (cont.)

## Electrical Requirements

**ⓘ USER ACTION!**

Find a copy of the wiring diagram with our serial number lookup at [truemfg.com/support/serial-number-lookup](http://truemfg.com/support/serial-number-lookup)

### Wire gauge chart (115V)

115 Volts	Distance in Feet to Center of Load											
AMPS	20	30	40	50	60	70	80	90	100	120	140	160
2	14	14	14	14	14	14	14	14	14	14	14	14
3	14	14	14	14	14	14	14	14	14	14	14	12
4	14	14	14	14	14	14	14	14	14	12	12	12
5	14	14	14	14	14	14	14	12	12	12	10	10
6	14	14	14	14	14	14	12	12	12	10	10	10
7	14	14	14	14	14	12	12	12	10	10	10	8
8	14	14	14	14	12	12	12	10	10	10	8	8
9	14	14	14	12	12	12	10	10	10	8	8	8
10	14	14	14	12	12	10	10	10	10	8	8	8
12	14	14	12	12	10	10	10	8	8	8	8	6
14	12	12	12	10	10	10	8	8	8	6	6	6
16	12	12	12	10	10	8	8	8	8	6	6	6
18	12	12	10	10	8	8	8	8	8	8	8	5
20	12	12	10	10	8	8	8	6	6	6	5	5
25	10	10	10	8	8	6	6	6	6	5	4	4
30	10	10	8	8	6	6	6	6	5	4	4	3

### Wire gauge chart (230V)

230 Volts	Distance in Feet to Center of Load											
AMPS	20	30	40	50	60	70	80	90	100	120	140	160
5	14	14	14	14	14	14	14	14	14	14	14	14
6	14	14	14	14	14	14	14	14	14	14	14	12
7	14	14	14	14	14	14	14	14	14	14	12	12
8	14	14	14	14	14	14	14	14	14	12	12	12
9	14	14	14	14	14	14	14	14	12	12	12	10
10	14	14	14	14	14	14	14	12	12	12	10	10
12	14	14	14	14	14	14	12	12	12	10	10	10
14	12	12	12	12	12	12	12	12	10	10	10	8
16	12	12	12	12	12	12	12	10	10	10	8	8
18	12	12	12	12	12	12	10	10	10	8	8	8
20	12	12	12	12	10	10	10	10	10	8	8	8
25	10	10	10	10	10	10	10	10	8	8	6	6
30	10	10	10	10	10	10	8	8	8	6	6	6

## Electrical Installation & Safety

### NEMA Plug Configurations

60 HZ USE ONLY!

TRUE uses these types of NEMA plugs shown. If you **DO NOT** have the proper outlet, have a licensed electrician verify and install the correct power source.



### International (IEC) Plugs Only

International appliances may be supplied with a power cord that will require installation. Install this cord before connecting the appliance to a power source.

**NOTICE** International plug configurations will vary by country and voltage.

### Installation

Fully seat the power cord into the appliance receptacle until it locks in position. See fig. 1.

### Removal

Depress the red button. See fig. 2.

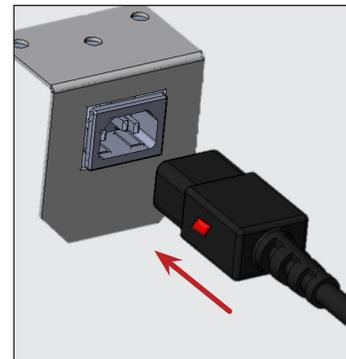


Fig. 1. Fully insert the power cord into the receptacle.

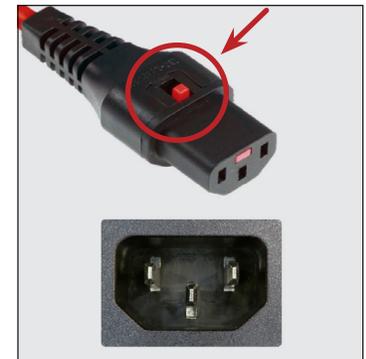


Fig. 2. Push the red button to remove the plug.

# Installation & Setup

## Installation & Setup

<b>⚠ WARNING!</b>	
    	<p><b>The appliance owner is responsible</b> for performing a Personal Protective Equipment (PPE) hazard Assessment and to ensure adequate protection during maintenance and cleaning procedures.</p> <p><b>Use appropriate tools,</b> safety equipment, and PPE during installation and servicing.</p>
	<p><b>Sharp edges!</b> Take care when moving, installing, cleaning, servicing and maintaining the appliance to avoid cuts. Be sure to take care when reaching under the appliance or handling metal components. Keep fingers out of pinch point areas, such as the space between appliance doors and surrounding appliances. Take care closing doors with children nearby.</p>
	<p><b>Risk of electrical shock or burn!</b> Powering off an electronic control or setting temperature controls to the 0 (off) position does not remove power from all components. Unplug the appliance or turn off the power supply before installation or servicing.</p>
	<p><b>Tip over hazard!</b> Appliance may pose a tipping hazard when uncrating, installing or moving the appliance. Take appropriate safety precautions. Use of tip over restraints may only reduce (not eliminate) the tipping hazard. Never allow children to climb or hand on drawers, doors or shelves.</p>
	<p><b>Crush or cut hazard!</b> Keep clear when uncrating, installing, moving, or servicing the appliance.</p>

### Uncrating

<b>ⓘ USER ACTION!</b>	
	<ul style="list-style-type: none"> <li>If the appliance is damaged, note all damage on the delivery receipt, immediately file a claim with the delivery freight carrier, and contact TRUE. <b>DO NOT install the unit or put it in service.</b></li> <li>If the unit laid on its back or side, be sure to leave the unit upright twice the time it has been laying down (up to four (4) hours) before plugging the unit into a power source. If this time exceeds four (4) hours, let the unit sit upright for 24 hours before powering the unit.</li> </ul>

<b>ⓘ NOTICE!</b>	
	<p>Keys for appliances with door locks are located in the warranty packet.</p>

### Required Tools

Required tools include (but may not be limited to) the following:

- Adjustable wrench
- Phillips screwdriver

## Installation & Setup (cont.)

### Procedure

1. Remove the outer packaging (cardboard and bubble or Styrofoam corner and clear plastic). See fig. 1.

**NOTICE >** **DO NOT** remove the shipping bracket (glass swing doors; fig. 2) until the appliance is installed in its final location. **DO NOT DISCARD.** Use the bracket when next moving the appliance.

2. With an adjustable wrench, remove all shipping bolts securing the wood skid to the bottom of the appliance. See fig. 3.

**NOTICE >** Move the appliance as close as possible to the final location before removing the wooden skid. Your model may require removing the front and/or rear grill/cover to access the shipping bolts.

3. Remove the appliance from the wood skid and set the skid aside.

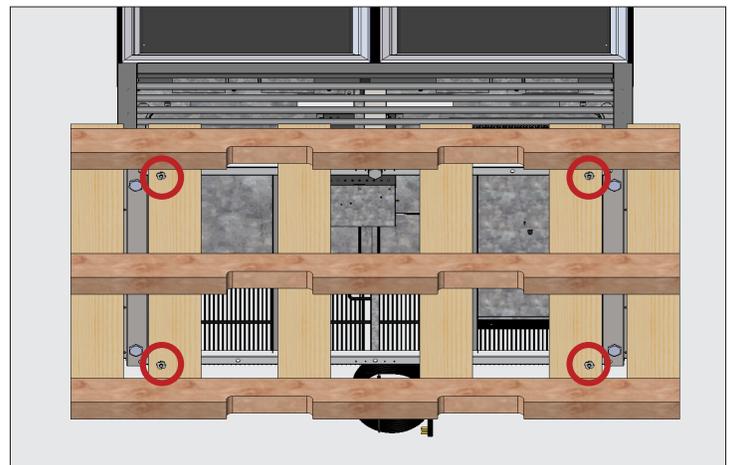
**NOTICE >** **DO NOT** lift the appliance by the counter tops, doors, drawers, or grills.



**Fig. 1.** Remove the exterior packaging.



**Fig. 2.** Remove the glass swing door shipping bracket, if so equipped. Do not discard.



**Fig. 3.** Shipping bolt locations.

# Installation & Setup (cont.)

## Appliance Location

- Ensure that the drain hose or hoses are positioned in the pan.
- Free the plug and cord from inside the lower rear of the appliance (**DO NOT** plug it in yet).
- Place the appliance close enough to the electrical supply so that extension cords are never used.

## Leveling Screw Installation

⚠ WARNING!	
	<p><b>Tipping hazard! ALWAYS</b> verify center leveling screws fully contact the floor after leveling the appliance.</p>

Leveling screws (fig. 1-3) are provided to assist with leveling the appliance.

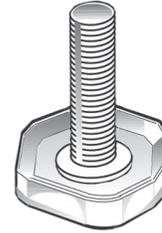
### Required Tools

Required tools include (but may not be limited to) the following:

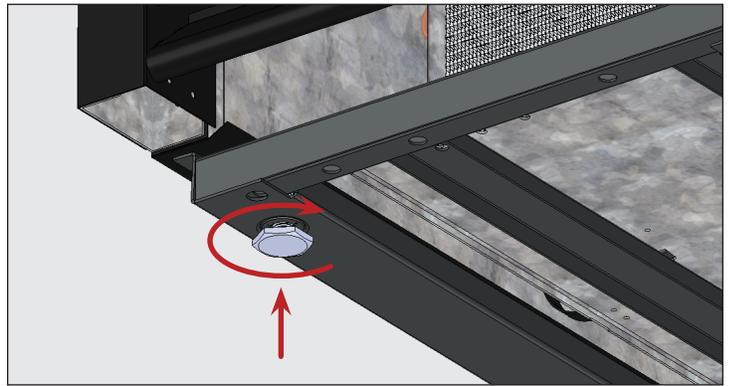
- Adjustable Wrench

## Procedure – Leveling Screws

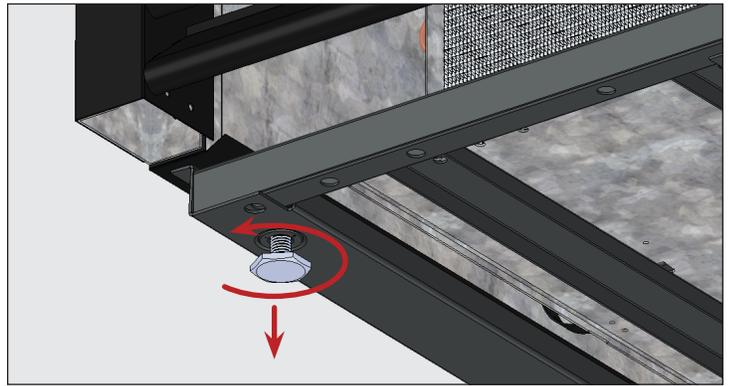
If leveling screws are not factory installed, then, with access to the appliance bottom, install the leveling screws into the threaded holes in the frame rail or appliance bottom. See figs. 1–3.



**Fig. 1.** Leveling screw.



**Fig. 2.** Turn the leveling screws clockwise to lower the appliance.



**Fig. 3.** Turn the leveling screws counterclockwise to raise the appliance.

# Installation & Setup (cont.)

## Leveling the Appliance

<b>⚠ WARNING!</b>	
	<p><b>Tipping hazard! ALWAYS</b> verify center leveling screws fully contact the floor after leveling the appliance.</p>

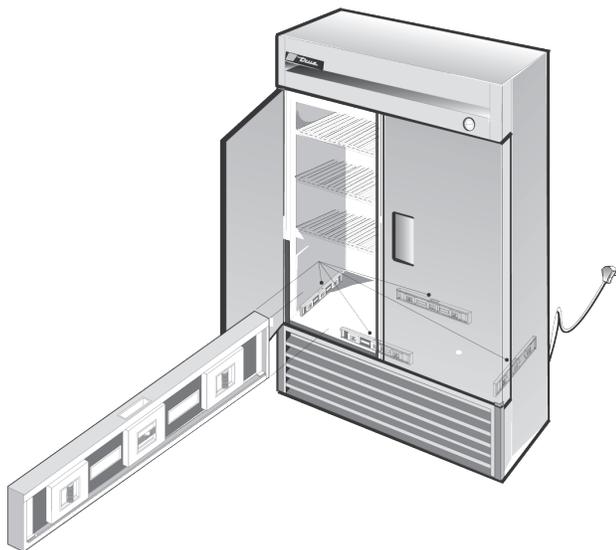
Proper leveling of your TRUE appliance is critical to operating success (for non-mobile appliances). Leveling impacts effective condensate removal and door operation.

See "Leveling Screw Installation" (pg. 12) for level adjustment information.

### Procedure

Position the appliance in its final installation location. Then, level the appliance front-to-back and side-to-side. See fig. 1.

1. Position the level on the inside floor of the unit near the doors (level parallel to appliance front). Level the appliance.
2. Position the level at the inside rear of cabinet (level parallel to appliance back). Level the appliance.
3. Position the level on the left and right inside floor (level parallel to appliance sides). Level the appliance.



**Fig. 1.** Measure the level along the perimeter of the interior floor.

## Sealing the Appliance to the Floor

<b>ⓘ USER ACTION!</b>	
	<p>Asphalt floors are susceptible to chemicals. TRUE recommends installing a layer of tape between the asphalt and the sealant to protect the floor.</p>

The following procedure describes sealing a non-mobile appliance to the floor for NSF standards. This may not be required for your application.

### Procedure

1. Position the appliance in its final installation location. Be sure to leave adequate clearance between the back and sides per "Clearances" (pg. 8) to ensure proper ventilation.
2. Level the appliance front-to-back and side-to-side. See "Leveling the Appliance" (pg. 13).
3. Draw an outline of the appliance base on the floor.
4. Raise and block the front side of the appliance.
5. Apply a bead of NSF-approved sealant (see list below) to the floor, 1/2" (13 mm) inside the front part of the outline drawn in step 3. The bead of sealant must be heavy enough to seal the entire appliance surface when the appliance is lowered on top of the sealant.
6. Raise and block the rear of the appliance.
7. Apply sealant to the floor on the other three sides, as outlined in step 5.
8. Examine the appliance to ensure that it is sealed to the floor around the entire perimeter.

### NSF-Approved Sealants

- 3M #ECU800 Caulk
- 3M #ECU2185 Caulk
- 3M #ECU1055 Bead
- 3M #ECU1202 Bead
- Armstrong Cork – Rubber Caulk
- Products Research Co. #5000 Rubber Caulk
- G.E. Silicone Sealer
- Dow Corning Silicone Sealer

## Installation & Setup (cont.)

### Shelf Installation

#### ⚠ WARNING!



Overloading, incorrectly installing, or improperly loading shelves can cause shelf failure and negatively affect appliance operation, resulting in appliance damage, product damage, or personal injury.

#### 🛠 USER ACTION!



For ease of installation, True recommends installing the lower shelf first.

#### 📢 NOTICE!



Doors are manufactured with a 90° stay open feature to assist with loading and unloading of the cabinet.

### Procedure

1. Position the shelf brackets in front of the shelf standard at the desired height. See fig. 1.
2. Raise the shelf front and hook the shelf bracket support tab into the shelf standard slots. See figs. 2 and 3.
3. Slide the shelf angle adjustment tabs into the shelf standard slots. Position the notches in the angle adjustment tabs to support the shelf at the desired angle. See fig. 3.

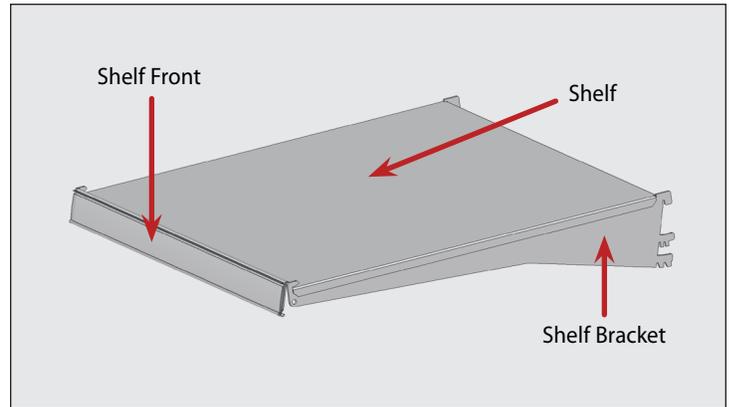


Fig. 1. The cantilever shelf components.

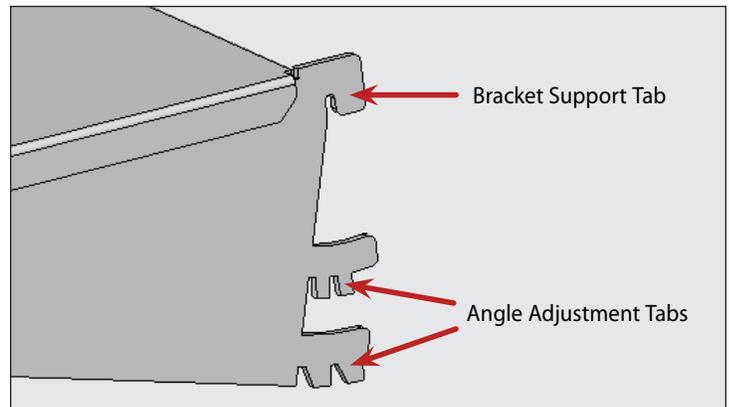


Fig. 2. Cantilever shelf tab identification.

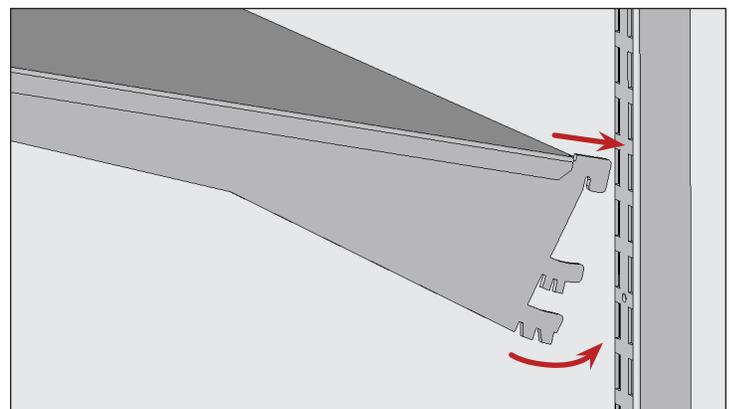


Fig. 3. Cantilever shelf into the shelf standard.

## Appliance Operation

# Appliance Operation

### ⚠ WARNING – SPOILAGE!



The owner is solely responsible for ensuring safe holding temperature levels for all food items. Failure to do so may result in unsafe food products. Loss or spoilage of products in your appliance is not covered by warranty. In addition to following recommended installation procedures, run the appliance for 24 hours prior to usage to verify operation.



### Startup

### ⓘ USER ACTION!



Before loading product, run your TRUE appliance empty for 24 hours to verify proper operation. Remember, our factory warranty **DOES NOT** cover product loss!

- The compressor is ready to operate when the appliance is purchased. All you need to do is plug in the appliance.
- Good air flow inside your TRUE appliance is critical. Take care to prevent product from pressing against the sides or back wall and coming within 4" (101.6 mm) of the evaporator housing. Refrigerated air off the evaporator coil must circulate throughout the appliance for even product temperatures.
- Excessive tampering with the control could lead to service difficulties. If replacing the temperature control is ever needed, be sure to order the replacement from your TRUE dealer or recommended service agent.
- All covers and access panels must be in place and properly secured before operating this appliance.

## Appliance Operation (cont.)

### Temperature Control & Light Switch Location

The light symbol  shows the approximate location of the light switch.



**Light Switch**

Inside the top ceiling.



**Electronic Temperature Control**

Behind the front bottom grill.

## Appliance Operation (cont.)

### General Sequence of Operation — Refrigerator and Freezer Appliances

#### ! USER ACTION!



For more information regarding a appliance's temperature control adjustment or general sequence of operation, please see our Temperature Control Adjustment—Sequence of Operation Manual in our resource library at [truemfg.com/service-manuals/sequence-of-operation](https://truemfg.com/service-manuals/sequence-of-operation) or scan the **QR code**.

When the appliance is plugged in:

- Interior lights will illuminate on glass door models (see Temperature Control & Light Switch location, pg. 16).
- An electronic control with digital display will illuminate (if installed).
- There may be a short delay before the compressor and/or evaporator fan(s) start. This delay may be determined by time or by temperature, which could be the result of an initial defrost event that will last at least six (6) minutes.
- The temperature control/thermostat may cycle the compressor and evaporator fan(s) on and off together. Every appliance will require a defrost event to ensure the evaporator coil remains clear of frost and ice buildup. Defrost is initiated by a defrost timer or by the electronic control.

**EXCEPTION** – Models TSID, TDBD, TCGG, and TMW do not have an evaporator fan(s).

- The temperature control/thermostat senses either an evaporator coil temperature or air temperature, NOT product temperature.
- An analog thermometer, digital thermometer, or electronic control display may reflect the refrigeration cycle swings of up and down temperatures, NOT product temperature. **The most accurate method to determine a appliance's operation is to verify the product temperature.**
- Refrigerators with mechanical temperature controls will defrost during every compressor off-cycle.
- Freezers with mechanical temperature controls will defrost by time initiation as determined by a defrost timer.

**EXCEPTION** – Models TFM, TDC, THDC and TMW require a manual defrost. The frequency of this manual defrost will depend on the appliance's usage and ambient conditions.

- An electronic control with a digital display (if installed) will show **dEF** during defrost.

**NOTICE >** The display may have a short delay before showing a temperature after a defrost event has expired and instead show **dEF** during a refrigeration cycle.

- Models with an analog or digital thermometer may show higher than normal temperatures during defrost.
- A refrigerator will use the evaporator fans to clear the coil during defrost.

**EXCEPTION** – Models TSID, TDBD, and TCGG do not have an evaporator fan(s).

- A freezer will use heaters to clear the evaporator coil during defrost.

**NOTICE >** The evaporator coil heater and drain tube heater are only energized during defrost. Defrost is terminated when a specific evaporator coil temperature is reached or by a time duration.

Maintenance & Servicing

# Maintenance & Servicing

<b>⚠ WARNING!</b>	
	<ul style="list-style-type: none"> <li>• <b>Only qualified technicians</b> should install and service the appliance. For assistance finding a qualified technician, please visit our Service Company Locator at <a href="http://truemfg.com/support/service-company-locator">truemfg.com/support/service-company-locator</a>.</li> <li>• <b>Turn off and lockout all utilities</b> (gas, electric, water) according to approved practices during maintenance or servicing.</li> </ul>
  	<p><b>The appliance owner is responsible</b> for performing a Personal Protective Equipment (PPE) Hazard Assessment and ensuring adequate protection during maintenance and cleaning procedures.</p> <p>Use appropriate tools, safety equipment, and PPE during installation and servicing.</p>
	<p><b>Sharp Edges!</b></p> <ul style="list-style-type: none"> <li>• Take care when moving, installing, cleaning, servicing, and maintaining the appliance to avoid cuts. Be sure to take care when reaching under the appliance or handling metal components.</li> <li>• Stay clear of pinch point areas, such as the space between appliance doors and surrounding cabinetry. Take care closing doors with children nearby.</li> </ul>

<b>⚠ WARNING!</b>	
	<p><b>Risk of electric shock or burn!</b></p> <ul style="list-style-type: none"> <li>• Powering off an electronic control or setting temperature controls to the 0 (off) position <b>DOES NOT remove power from all components</b>. Unplug the appliance or turn off the power supply before installation or servicing.</li> <li>• <b>DO NOT</b> clean appliance with a pressure washer or hose.</li> </ul>
	<p><b>Flammable refrigerant/insulation used!</b> Have a licensed service provider service your unit to minimize the risk of possible ignition due to incorrect parts or improper service and to ensure the operator's health and safety.</p>
	<p><b>Crush or cut hazard!</b> Keep clear when uncrating, installing, moving, or servicing the appliance.</p>
	<p><b>Slippery Surfaces!</b> Moisture from improper drainage can create slippery surfaces near the appliance. It is your duty to immediately warn your customers of, and dry, the slippery surface. All wet floor areas must be marked with a wet floor sign.</p>

Maintenance & Servicing (cont.)

**! USER ACTION!**

- For additional maintenance instruction, please visit the media center at [truemfg.com](http://truemfg.com).
- Any appliance adjustments are to be made **AFTER** the appliance has been verified level and properly supported.

**! NOTICE!**

The appliance owner is responsible for maintaining the appliance as described in the installation manual. Routine care and maintenance procedures are not covered by TRUE's warranty.

**Component Replacement**

- Replace components with original equipment manufacturer (OEM) components such as those shown in fig. 1. OEM parts minimize the risk of possible ignition due to incorrect parts. Use of non-OEM components may void TRUE's warranty.
- Have a licensed service provider service your unit to minimize the risk of possible ignition due to incorrect parts or improper service and to ensure the operator's health and safety.



**Fig. 1.** Example of OEM parts.

## Maintenance & Servicing (cont.)

### Recommended Maintenance

See recommended maintenance tasks and frequencies below. Some tasks may be required more frequently based on your installation.

Maintenance Tasks	Monthly	Quarterly	Annually
Verify the appliance maintains product temperature.	X	X	X
Inspect power cord for damage; if damaged, replace immediately.	X	X	X
Verify the power cord is fully plugged into the wall receptacle			X
Inspect the overall condition of the appliance and its components (such as castors, doors, and hinges).	X	X	X
Verify operation of all moving parts (such as fan motors, doors and door cords).			X
Check physical condition of all gaskets; verify gaskets seal correctly.		X	X
Inspect any lamps, lamp holder connections, LED modules, and LED module connections.	X	X	X
Check all condenser coils (fronts and backs) for dust and debris; if present, clear the debris.	X	X	X
Check physical condition of all condenser coils and evaporator coils; straighten coil fins as needed.		X	X
Check all evaporator coils for dust and debris; if present, clear the debris.		X	X
Verify the drain line is clear of debris.		X	X



## Maintenance & Servicing (cont.)

### Condenser Coil Cleaning

<b>⚠ WARNING!</b>	
  	<p><b>The appliance owner is responsible</b> for performing a Personal Protective Equipment (PPE) Hazard Assessment and ensuring adequate protection during maintenance and cleaning procedures.</p> <p>Use appropriate tools, safety equipment, and PPE during installation and servicing.</p>
	<p><b>Risk of electric shock or burn!</b></p> <ul style="list-style-type: none"> <li>Unplug the appliance or turn off the power supply before installation or servicing.</li> <li><b>DO NOT</b> clean appliance with a pressure washer or hose.</li> </ul>
	<p><b>Sharp edges!</b> Coil fins are sharp and metal components can have sharp edges. Take care when moving, installing, cleaning, servicing, and maintaining the appliance to avoid cuts.</p>
	<p><b>Risk of eye injury!</b> Airborne dust and debris can cause eye injury. Eye protection recommended.</p>

<b>ⓘ NOTICE!</b>	
	<p>The cleaning of the condenser coil is not covered by warranty!</p>

#### Required Tools

Required tools include (but may not be limited to) the following:

- Phillips screwdriver or bit driver
- 1/4" nut driver
- 3/8" nut driver
- Stiff bristle brush
- Tank of compressed air
- Vacuum cleaner
- Flashlight
- Eye protection
- Gloves

#### Procedure

1. Unplug the appliance or turn off the power supply.
2. Remove the front louvered grill from the appliance. See fig. 1 and 2.
3. With a stiff bristle brush, carefully clean accumulated dirt from the front condenser coil fins See fig. 3.
4. With dirt removed from the surface of the coil, use a flashlight to verify that you can see through the coil and observe the condenser fan blade spinning. See fig. 4.  
  
If the view is clear, carefully vacuum any dirt around or behind the condensing unit. Reinstall the front louvered grill, connect appliance to power and verify operation. If the view is still blocked with dirt, proceed to step 5.
5. Remove the condenser base bolts. See fig. 5.
6. Remove the cabinet support bracket. See fig. 6.
7. Carefully slide the condensing unit out (tubing connections are flexible). See fig. 7.
8. Gently blow compressed air or CO<sub>2</sub> through the coil until it is clean.
9. Carefully vacuum any dirt around and behind the condensing unit area.
10. Carefully slide the compressor assembly back into position and bolt it in place. See fig. 8.
11. Reinstall the cabinet support bracket and the front louver grill. Then restore power and verify operation.

Maintenance & Servicing (cont.)

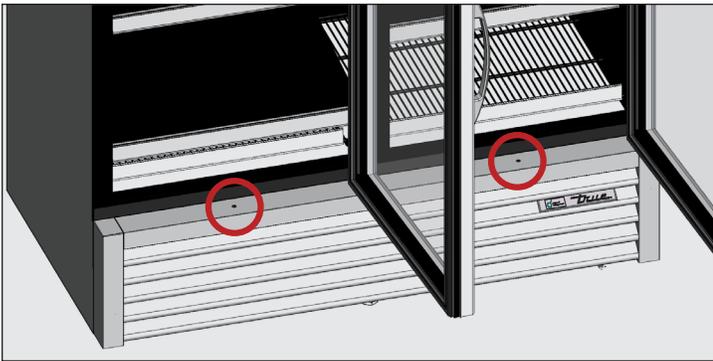


Fig. 1. Front louver grill screw location. Two-door unit shown.

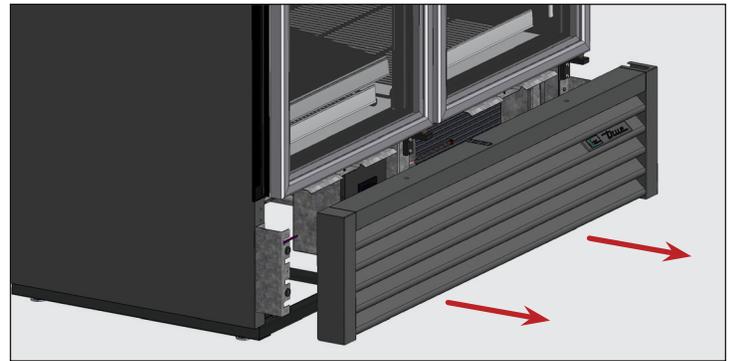


Fig. 2. Carefully pull the front louver grill away from the unit.

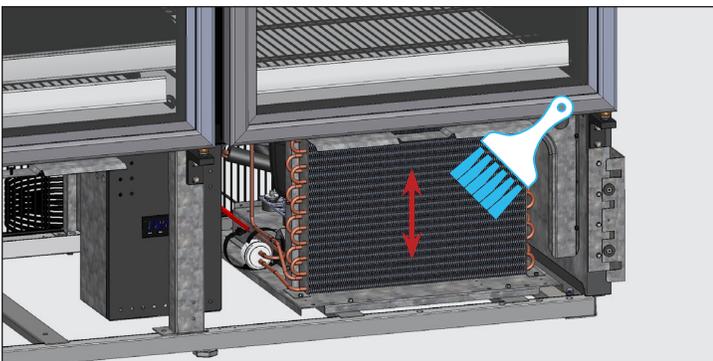


Fig. 3. Never brush across coil fins!

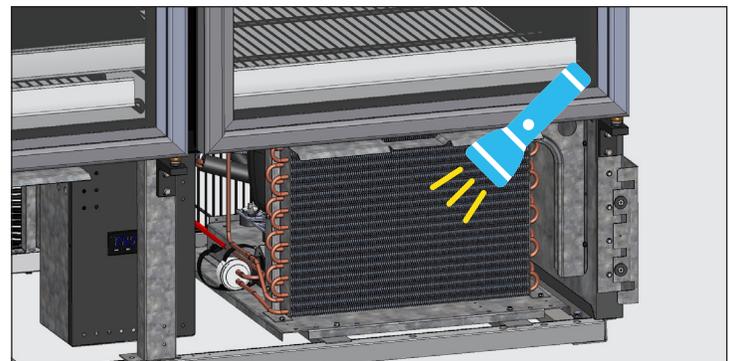


Fig. 4. Verify all blockages have been removed.

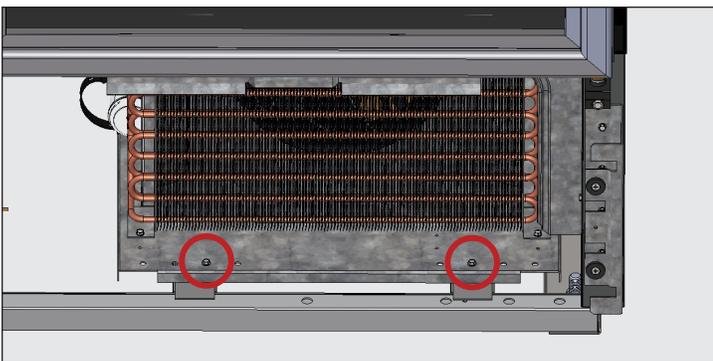


Fig. 5. Condenser base bolt locations.



Fig. 6. Cabinet support bracket screw locations.

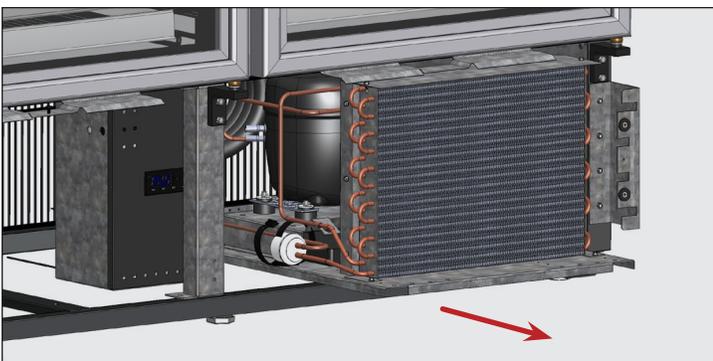


Fig. 7. Carefully slide the condensing unit out.

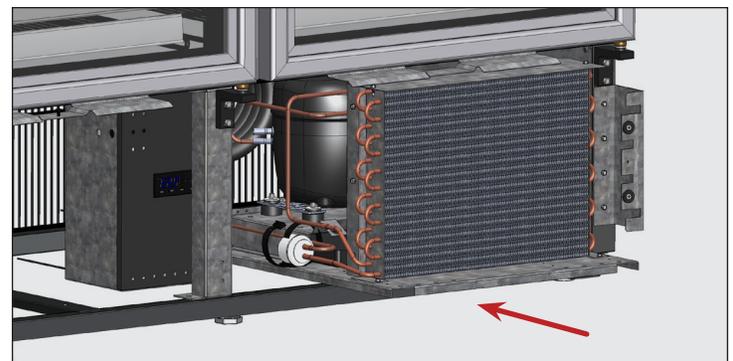


Fig. 8. Carefully slide the condensing unit back into position and reinstall the bolts.

# Maintenance & Servicing (cont.)

### Additional Information

If you have any questions, please contact your local TRUE Manufacturing Service Department. See the front cover for locations and contact information.

- **DO NOT** place any filter material in front of the condensing coil.

### General Surface Care & Cleaning

<b>⚠ WARNING!</b>	
 	<p><b>Risk of electrical shock or fire!</b></p> <p><b>DO NOT</b> clean appliance with a pressure washer or hose.</p>
	<p><b>Slippery Surfaces!</b> Moisture from improper drainage can create slippery surfaces near the appliance. It is your duty to immediately warn your customers of, and dry, the slippery surface. All wet floor areas must be marked with a wet floor sign.</p>
  	<p><b>The appliance owner is responsible</b> for performing a Personal Protective Equipment (PPE) Hazard Assessment and to ensure adequate protection during maintenance and cleaning procedures.</p> <p><b>Use appropriate tools, safety equipment, and PPE</b> during installation and servicing.</p>

### Gaskets

- Clean gaskets with warm soapy water.
- **DO NOT** use sharp tools or knives to scrape a gasket.
- Avoid full-strength cleaning products.

### Interior

- Clean interior surfaces with a mild solution of baking soda and water to help reduce odor; **DO NOT** use harsh or abrasive cleaners.
- For plastic or powder-coated parts, use warm soapy water to clean **DO NOT** use stainless steel cleaners or similar solvents.

### Exterior

- For plastic or powder-coated parts, use warm soapy water to clean **DO NOT** use stainless steel cleaners or similar solvents.
- **DO NOT** clean stainless steel with steel wool or abrasive products. **DO NOT** use detergents or degreasers with chlorides or phosphates.

## Maintenance & Servicing (cont.)

### Stainless Steel Care & Cleaning

#### ! USER ACTION



**DO NOT** use any steel wool, abrasive, or chlorine-based products to clean stainless steel surfaces.

#### ! NOTICE!



The use of proprietary names is intended for example only and does not constitute or imply an endorsement. Omission of proprietary cleansers from this list does not imply inadequacy.

### Stainless Steel Opponents

There are three basic things which can break down your stainless steel's passivity layer and allow corrosion to form.

- Scratches from wire brushes, scrapers, steel pads, and other items that can be abrasive to stainless steel's surface.
- Deposits left on your stainless steel can leave spots. You may have hard or soft water depending on what part of the country you live in. Hard water can leave spots. Hard water that is heated can leave deposits if left to sit too long. These deposits can cause the passive layer to break down and rust your stainless steel. All deposits left from food prep or service should be removed as soon as possible.
- Chlorides which are present in table salt, food and water, as well as in household and industrial cleaners. These are the worst type of chlorides to use on stainless steel.

### Stainless Steel Cleaning and Restoration

- For routine cleaning and removal of grease and oil, apply white vinegar, ammonia, or any good commercial detergent\* with a soft cloth or sponge.
  - Stainless steel polish (e.g., Zep® Stainless Steel Polish, Weiman® Stainless Steel Cleaner & Polish, Nyco® Stainless Steel Cleaner & Polish, or Ecolab® Ecoshine®) and olive oil can act as a barrier against fingerprints and smears.
  - Degreasers\* (e.g., Easy-Off® Specialty Kitchen Degreaser or Simple Green® Industrial Cleaner & Degreaser) are excellent for removal of grease, fatty acids, blood and burnt-on foods on all surfaces.
- \*DO NOT** use detergents or degreasers with chlorides or phosphates.
- For restoration/passivation or removing stubborn stains and discoloration, Brillo® Cameo®, Zud® Cleanser, Ecolab® Specifax™ First Impression® Metal Polish, Sheila Shine, or talc can be applied by rubbing in the direction of the polish lines.

## Maintenance & Servicing (cont.)

### 8 Tips to Help Prevent Rust on Stainless Steel

#### Maintain the Cleanliness of Your Equipment

Avoid build-up of hard stains by cleaning frequently. Use cleaners at the recommended strength (alkaline chlorinated or non-chloride).

#### Use the Correct Cleaning Tools

Use non-abrasive tools when cleaning your stainless steel products. The stainless steel's passive layer will not be harmed by soft cloths and plastic scouring pads.

#### Clean Along Polishing Lines

Polishing lines ("grain") are visible on some stainless steels. Always scrub parallel to polishing lines when visible. Use a plastic scouring pad or soft cloth when you cannot see the grain.

#### Use Alkaline, Alkaline-Chlorinated or Non-Chloride Cleaners

While many traditional cleaners are loaded with chlorides, the industry is providing an ever increasing choice of non-chloride cleaners. If you are not sure of your cleaner's chloride content, contact your cleaner supplier. If they tell you that your present cleaner contains chlorides, ask if they have an alternative. Avoid cleaners containing quaternary salts, as they can attack stainless steel, causing pitting and rusting.

#### Rinse

When using chlorinated cleaners, you must rinse and wipe dry immediately. It is better to wipe standing cleaning agents and water as soon as possible. Allow the stainless steel equipment to air dry. Oxygen helps maintain the passivity film on stainless steel.

#### Never Use Hydrochloric Acid (Muriatic Acid) on Stainless Steel

Even diluted, hydrochloric acid can cause corrosion, pitting and stress corrosion cracking of stainless steel.

#### Water Treatment

To reduce deposits, soften hard water when possible. Installation of certain filters can remove corrosive and distasteful elements. Salts in a properly maintained water softener can also be to your advantage. Contact a treatment specialist if you are not sure of the proper water treatment.

#### Regularly Restore & Passivate Stainless Steel

Stainless steel gets its stainless properties from the protective chromium oxides on its surface. If these oxides are removed by scouring, or by reaction with harmful chemicals, then the iron in the steel is exposed and can begin to oxidize, or rust. Passivation is a chemical process that removes free iron and other contaminants from the surface of stainless steel, allowing the protective chromium oxides to re-form.

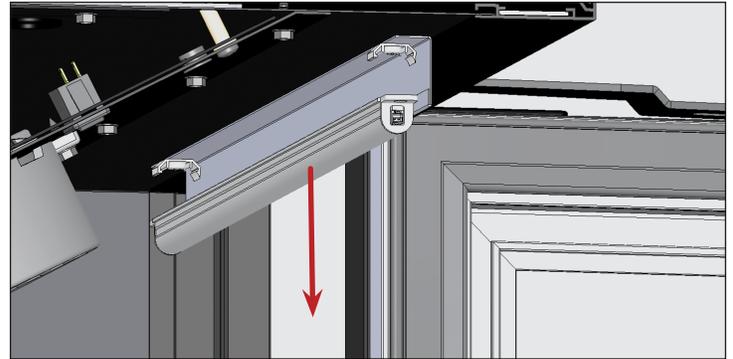
## Maintenance & Servicing (cont.)

### Reversing the Sign Deflector

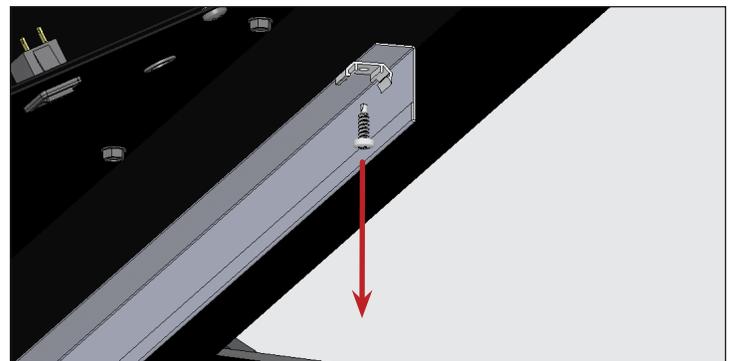
The sign deflector reflects the light from the LED module. Factory-install reflects the light back onto the product. For applications with door decal, reverse the sign deflector to shine light through the decal.

#### Procedure

1. Unplug the appliance or turn off the power supply.
2. Remove the LED module from the LED holders. See fig. 1.
3. Remove the LED holders. See fig. 2.
4. Turn the sign deflector around. See fig. 3.
5. Reinstall the LED holders. See fig. 3.
6. Reinstall the LED module.
7. Restore power and verify operation.



**Fig. 1.** Unsnap the LED module from its holders.



**Fig. 2.** Unscrew the LED holders. Other LED holder not shown.



**Fig. 3.** Installed reversed sign deflector and LED holders.

Warranty Information (USA & Canada Only)

# Warranty Information

To view and download the  
Warranty Information for USA & Canada,  
please scan the QR code below.











[truemfg.com](http://truemfg.com)