

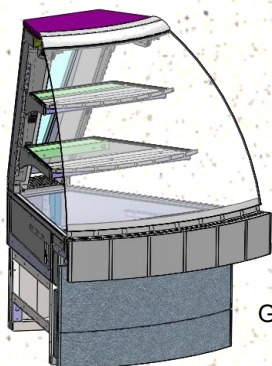
FUSION USER MANUAL

SCC P/N
5-7247

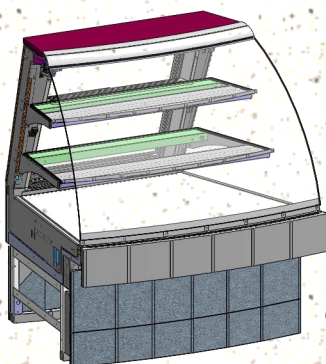
REFRIGERATED SERVICE MEDIUM VOLUME CASES / CURVED FRONT GLASS / ANGLED BACK

PLEASE NOTE THE FOLLOWING:

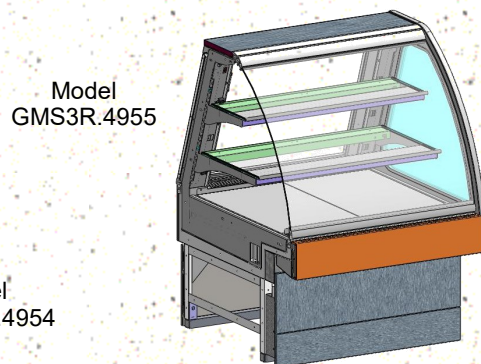
1. YOUR SPECIFIC MODEL NUMBER IS LOCATED ON THE SERIAL LABEL (USUALLY AT CASE REAR). HOWEVER, LABEL LOCATIONS MAY VARY DEPENDING UPON MODEL.
2. SEE *SERIAL LABEL LOCATION & INFORMATION* SECTION IN THIS MANUAL FOR SAMPLE LABELS.
3. CASES SHOWN IN THIS MANUAL MAY REFLECT FULL OR OPEN END PANELS / STRAIGHT OR ANGLED BASES. YOURS MAY DIFFER.
4. SEE *"MODELS (AND THEIR RESPECTIVE CASE DIMENSIONS) LISTED IN THIS MANUAL"* SECTION FOR ADDITIONAL INFORMATION REGARDING SPECIFIC CASE DIMENSIONS OF STANDARD MODELS AND CDRs.



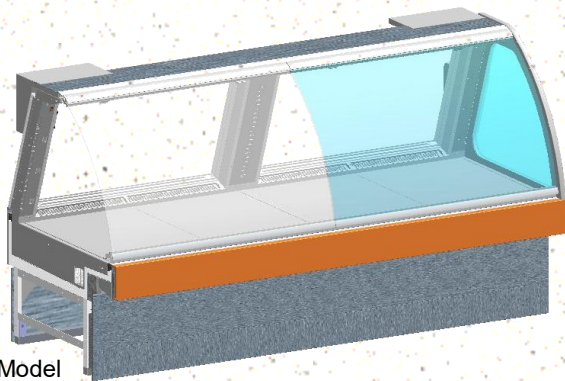
Model
GMSX4R.4953



Model
GMSX2R.4954

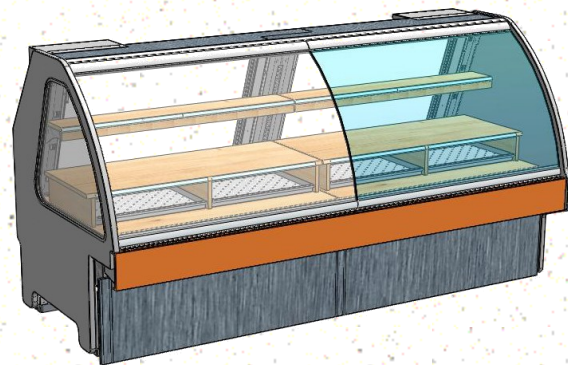


Model
GMS3R.4955

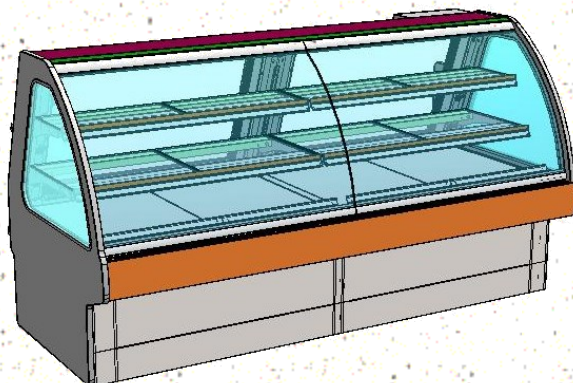


Model
GMS8R.4956

Model
GMS8R.5003
With Optional
Scale Stands
And Wood
Shelving



Model
GMS8R.4936 With
Optional Scale
Stand



Model GMBS4R
(Straight Back)

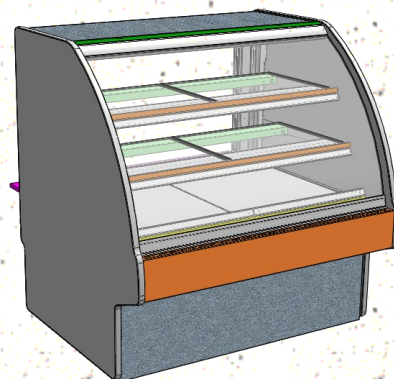


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OVERVIEW

- These Structural Concepts cases are designed to merchandise packaged products at 41 °F (5 °C) or less product temperatures (unless custom cases with wire rack shelving).
- Product must be pre-chilled to 41 °F (5 °C) or less before being placed in merchandiser.
- Cases should be installed and operated according to this operating manual's instructions to ensure proper performance. Improper use will void warranty.

TYPE 1 vs. TYPE 2 CONDITIONS

This unit is designed for the display of products in ambient store conditions where temperatures and humidity are maintained within a specific range.

- Type 1 conditions: ambient conditions are to be 55% max. humidity and 75 °F (24 °C) max. temperature.
- Type 2 conditions: ambient conditions are to be 60% max. humidity and 80 °F (27 °C) max. temperature.

- If unsure if unit is Type 1 or 2, see tag next to serial label. See **SERIAL LABEL LOCATION & INFORMATION LISTED / TECH INFO & SERVICE** section in this manual for sample serial labels).

COMPLIANCE

- Performance issues when in violation of applicable NEC, federal, state and local electrical and plumbing codes are not covered by warranty.
- See below compliance guideline.

WARNINGS

- This page contains important warnings to prevent injury or death. Please read carefully!

PRECAUTIONS and WIRING DIAGRAMS

- See next page for **PRECAUTIONS** and **WIRING DIAGRAM** information.

**COMPLIANCE**

This equipment **MUST** be installed in compliance with all applicable NEC, federal, state and local electrical and plumbing codes.

WARNING

**ELECTRICAL
HAZARD**

**WARNING**

Risk of electric shock. Disconnect power before servicing unit.
CAUTION! More than one source of electrical supply is employed with units that have separate circuits.
Disconnect ALL ELECTRICAL SOURCES before servicing.

WARNING

**KEEP
HANDS
CLEAR**

**WARNING**

Hazardous moving parts. Do not operate unit with covers removed.
Fan blades may be exposed when deck panel is removed.
Disconnect power before removing deck panel.

**WARNING**

This product can expose you to chemicals, including Urethane (Ethyl Carbamate), which are known to the state of California to cause cancer and birth defects or other reproductive harm. For more information go to P65Warnings.ca.gov.

WARNING

**HOT
SURFACE**

**WARNING**

Condensate pan and overflow condensate pans are **HOT!**
Disconnect and allow to cool before cleaning or removing from case.

PRECAUTIONS

- Following are important precautions to prevent damage to unit or merchandise. Read carefully!
- See previous page for specifics on **OVERVIEW**, **CONDITION TYPE**, **COMPLIANCE** and **WARNINGS**.

WIRING DIAGRAM

- Each case has its own wiring diagram folded and in its own packet. It may be placed near ballast box, field wiring box, raceway cover, or other related location.

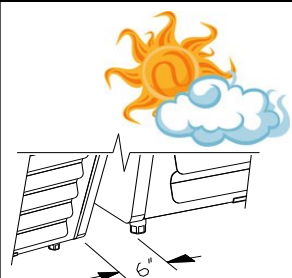
REFRIGERANT DISCLOSURE STATEMENT

- This equipment is prohibited from use in California with any refrigerants on the "List of Prohibited Substances" for that specific end-use, in accordance with California Code of Regulations, title 17, section 95374.
- This disclosure statement has been reviewed and approved by Structural Concepts and Structural Concepts attests, under penalty of perjury, that these statements are true and accurate.



CAUTION! GFCI BREAKER REQUIREMENT
If N.E.C. (National Electric Code) or your local code requires GFCI (Ground Fault Circuit Interrupter) protection, you **MUST** use a GFCI breaker in lieu of a GFCI receptacle.

CAUTION



CAUTION! ADVERSE CONDITIONS / SPACING ISSUES

- Performance issues caused by adverse conditions are **NOT** warranted.
- To prevent damage to end panels due to condensation, apply industrial grade silicone sealant and tightly join to opposite end panels. When not adjoining cases, keep end panels at least 6" away from walls/structures. Rear panels must also be kept at least 6" from walls and structures.
- Case must not be exposed to direct sunlight or any heat source.
- To maintain proper case temperature, keep case at least 15-feet from exterior doors, overhead HVAC vents or any air curtain disruption.
- Self-contained case clearance: 6" min. air intake / 6" min. air discharge.

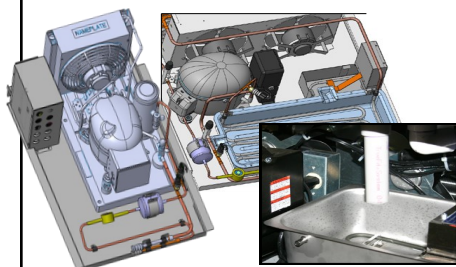


CAUTION! POWER CORD AND PLUG MAINTENANCE
Risk of electric shock. If cord or plug becomes damaged, replace only with cord and plug of same type.



CAUTION! DO NOT RELY ON THERMOMETERS OR THERMOSTATS FOR PRODUCT (FOOD) TEMPERATURES.

- Thermometers & thermostats reflect air temperatures **ONLY**.
- For **ACTUAL** product (food) temperatures, use a calibrated food probe thermometers **ONLY**.
- For accurate readings, **DO NOT** use infrared food thermometers.



CAUTION! CHECK CONDENSATE PAN, ITS POSITION & PLUG!

Water on flooring can cause extensive damage!

- Before powering up case, check that condensate pan is positioned directly under case's condensate drain.
- Before powering up case, check that condensate pan's electrical plug is **SECURELY** connected to condensate system's receptacle.
- If wicking material is used in condensate pan, check that it is secure.

MODELS LISTED IN THIS MANUAL (AND DETERMINING THEIR RESPECTIVE CASE DIMENSIONS)

DETERMINING YOUR MODEL AND ITS CASE DIMENSIONS:

Note 1. Your model number can be found on serial label (usually at case rear). However, serial label placement can sometimes vary depending upon model. See *SERIAL LABEL INFORMATION & LOCATION* section in this manual for serial label samples.

Note 2. Dimensions of most models can be found at www.structuralconcepts.com. Simply enter the case model number into the Product Number Search box. Click the ***product specification*** link for complete dimensions.

Note 3. If your specific model is not found, contact technical service (phone number is listed at Technical Service section in this manual) for dimensions.

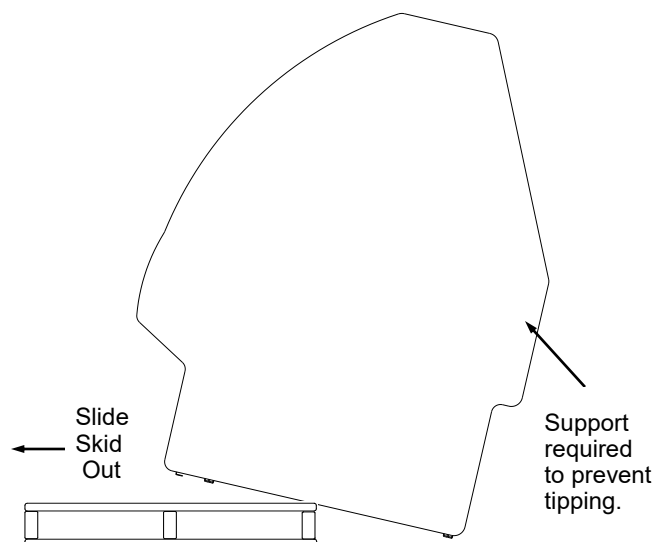
Note 4. CDRs (Customer Design Requests) are listed with a 4-digit suffix. Dimensions are very similar to standard model (pre-suffix) dimensions.

THIS OPERATING MANUAL ENCOMPASSES THE FOLLOWING MODELS (AND THEIR RESPECTIVE CDRs):

This manual is applicable (but is not limited) to: Models GMDS6R.6035B GMS3R.4955
GMS8R.4936 GMS8R.4956 GMS8R.5003 GMBS3R GMBS4R GMBS5R GMBS6R
GMBS8R GMBS10R GMBS12R GMBS452R GMSX252R GMS3R.4955
GMS8R.4956 GMSX2R.4954 GMSX4R.4953

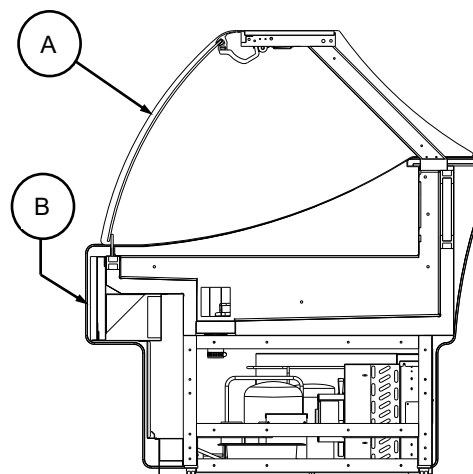
INSTALLATION: SKID REMOVAL, POSITIONING, LEVELING, REAR DOOR REMOVAL

Note: Units shown may not depict an exact representation of your particular unit being installed.



1. Remove Unit From Skid

Caution: case must always remain supported or center of gravity will allow case to fall. Slide unit to rear of skid and tip backward off skid.



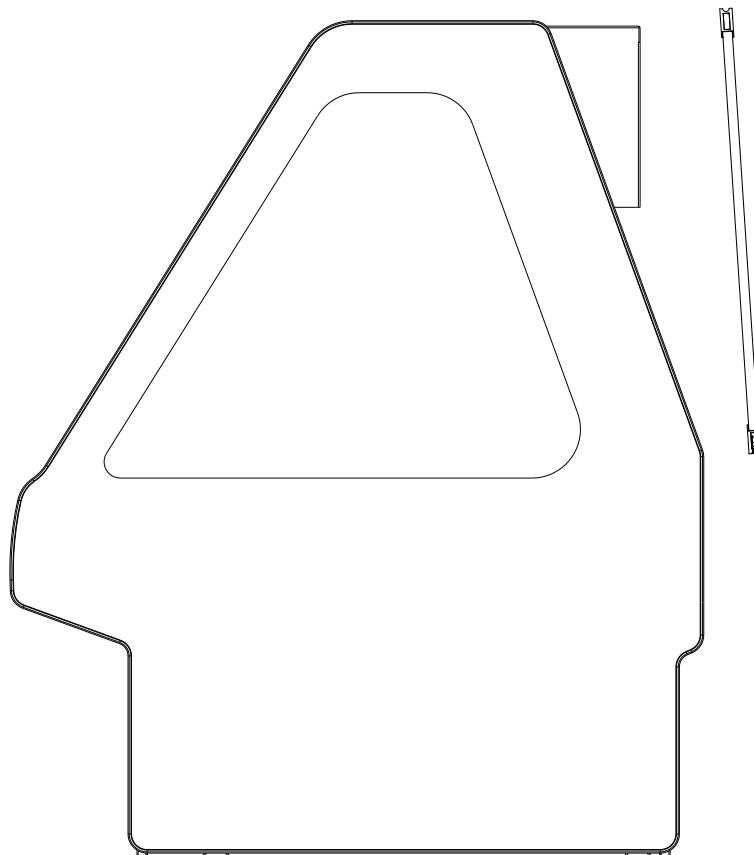
2. Position and Level Units

- Move case into position. Or, if case has casters, roll into position.
- Align multiple units carefully in areas A and B.
- See next page for frame support rails and shimming instructions.

3. Removing the Rear Sliding Doors

Note: Doors are not interchangeable. There is an inner and outer door. The outer must be removed first and replaced last.

- The outer door is the right hand door (from the service side or rear of case).
- It is identified by a stop located at the lower right hand corner to the inside of the case.
- Move doors toward the center of the case.
- Individually lift each door up toward the top of the case; pivot the bottom of the door out.
- Carefully set rear sliding doors down to prevent them from falling.
- Replace rear sliding doors in reverse order they were removed.

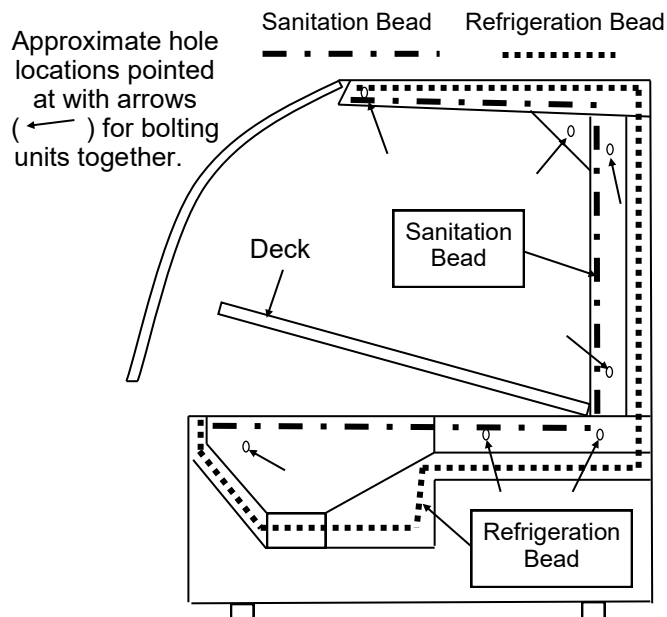


INSTALLATION, CONTINUED: BOLTING and CAULKING UNITS TOGETHER

4. Bolting and Caulking Units Together

Follow these steps to assure a secure, level lineup.

- Begin all lineups leveling from highest point of floor.
- After the 'first' case is level, apply industrial grade butyl caulk on non-visible areas (at case end). Use industrial grade silicone sealant on visible areas (at case end).
- Form Two (2) Caulk/Sealant Lines: (Sanitation and Refrigeration). See illustration at mid-right for outline of caulk/sealant lines.
- Line up 'second' case bolt-hole to bolt-hole to 'first' case.
- Using SCC-supplied bolts (found in installation packet or inserted in holes), insert bolts in bolt hole locations (shown at right). You may need to remove decking to access lower bolt holes.
- Caution! Front of cases **MUST** be flush with each other! After leveling, all cases to be same height.
- Using SCC-supplied nuts & bolts, **lightly tighten** each of the 5 to 8 bolts in a cross-wise pattern. Work your way around the pattern, tightening more firmly at each pass. Do not firmly tighten one bolt and then start on the next!
- After the cases are bolted together, level the 'second' case. Repeat this process for each case to be adjoined.
- After all lined-up cases are level, seal all seams with industrial grade silicone sealant.



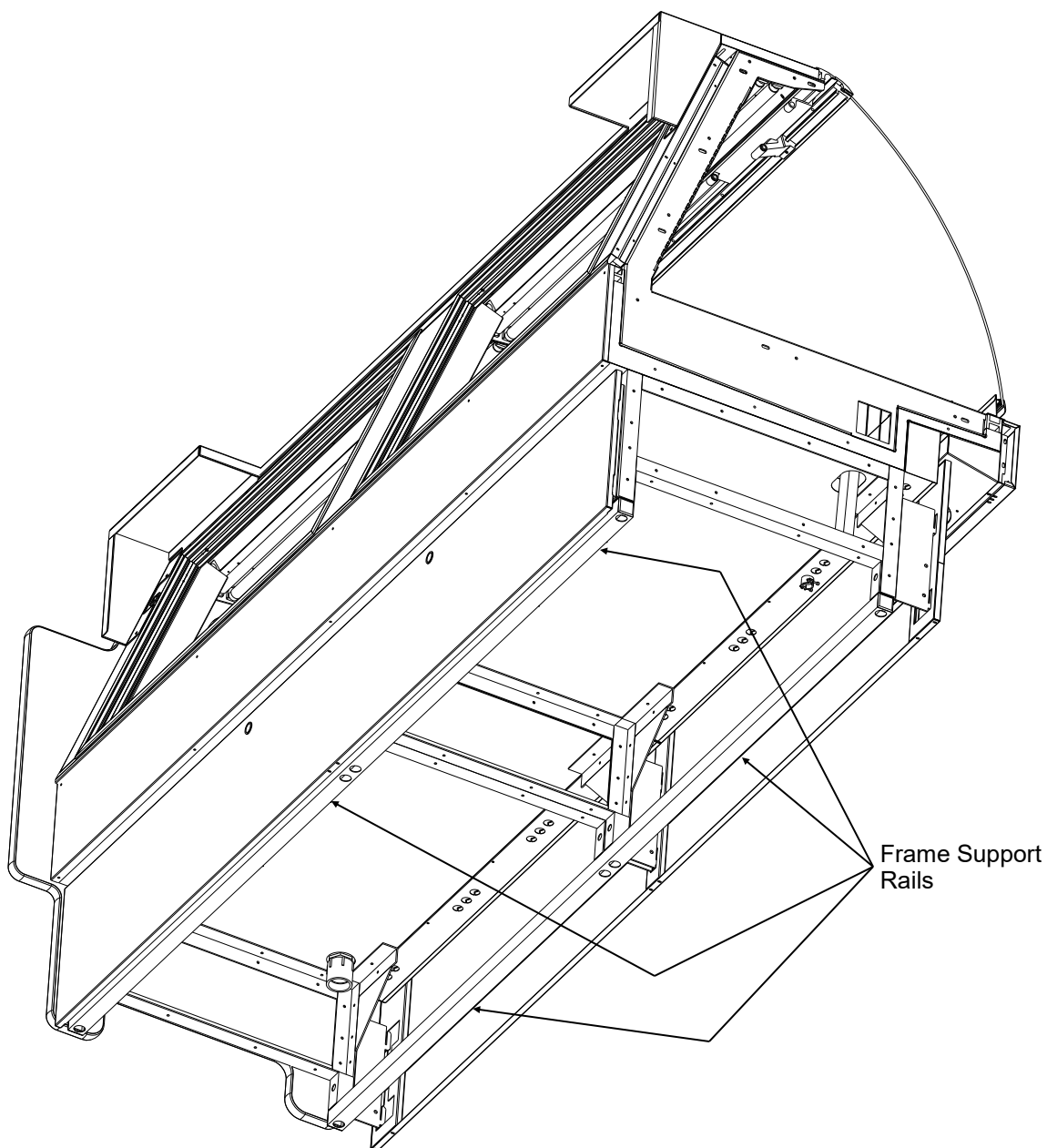
Note: Units shown may not depict an exact representation of your particular unit being installed.

5. Position & Align Case Alongside Other Cases **(See Previous Page For Instructions)**

- Before adjusting levelers (or shimming frame support rails), make certain that the case is in proper position and, if required, aligned with adjoining case(s).
- This may require the repositioning of the case you are installing or the already positioned case.

6. Frame Support Rails Must Be Shimmed

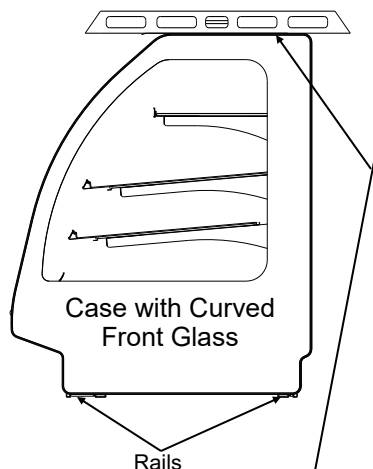
- Illustration below shows case with frame support rails.
- Shims will be provided with all cases that have frame support rails.
- Use shims to level case.
- **Note:** *After case is in position, it must be sealed to floor to prevent entry or leakage of liquid or moisture.*



7. Front Glass Alignment & Adjustment via Rail System (For Curved and Flat Front Glass)

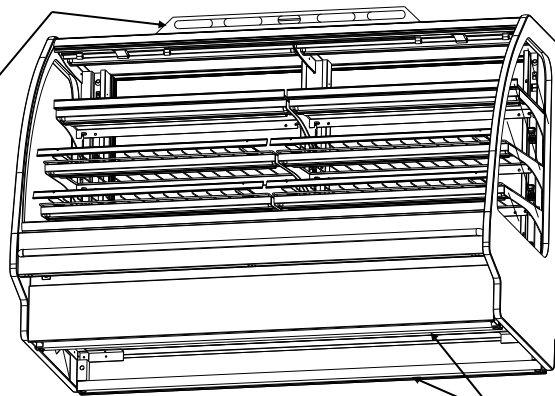
- Proper alignment of the front glass is important to create and maintain a seal inside the case.
- Improper alignment can cause air leaks compromising the environment inside the case and create condensation.
- Follow the five steps listed below to assure proper front glass alignment.
- Illustrations shown may not exactly reflect every feature or option of your particular case.

1. **Side-to-Side Leveling:** Place a level on top of display case (parallel to front glass). Raise or lower either side of case by inserting shims under the rails to level the case (following steps 3 and 4 below).



2. Front-to-Back Leveling:

- Place a level on top of case, perpendicular to the front glass.
- Raise or lower either side of case by shimming under the rails (following steps 3 & 4 below).
- Double-check the side-to-side level.



END PANEL

FRONT GLASS

Rails

3. If FRONT-LEFT CORNER is too close to end panel (or hitting it), insert shims at the BACK LEFT CORNER of case.

LIFT

FRONT GLASS

END PANEL

4. If FRONT-RIGHT CORNER is too close to end panel (or hitting it), insert shims at the BACK RIGHT CORNER of case.

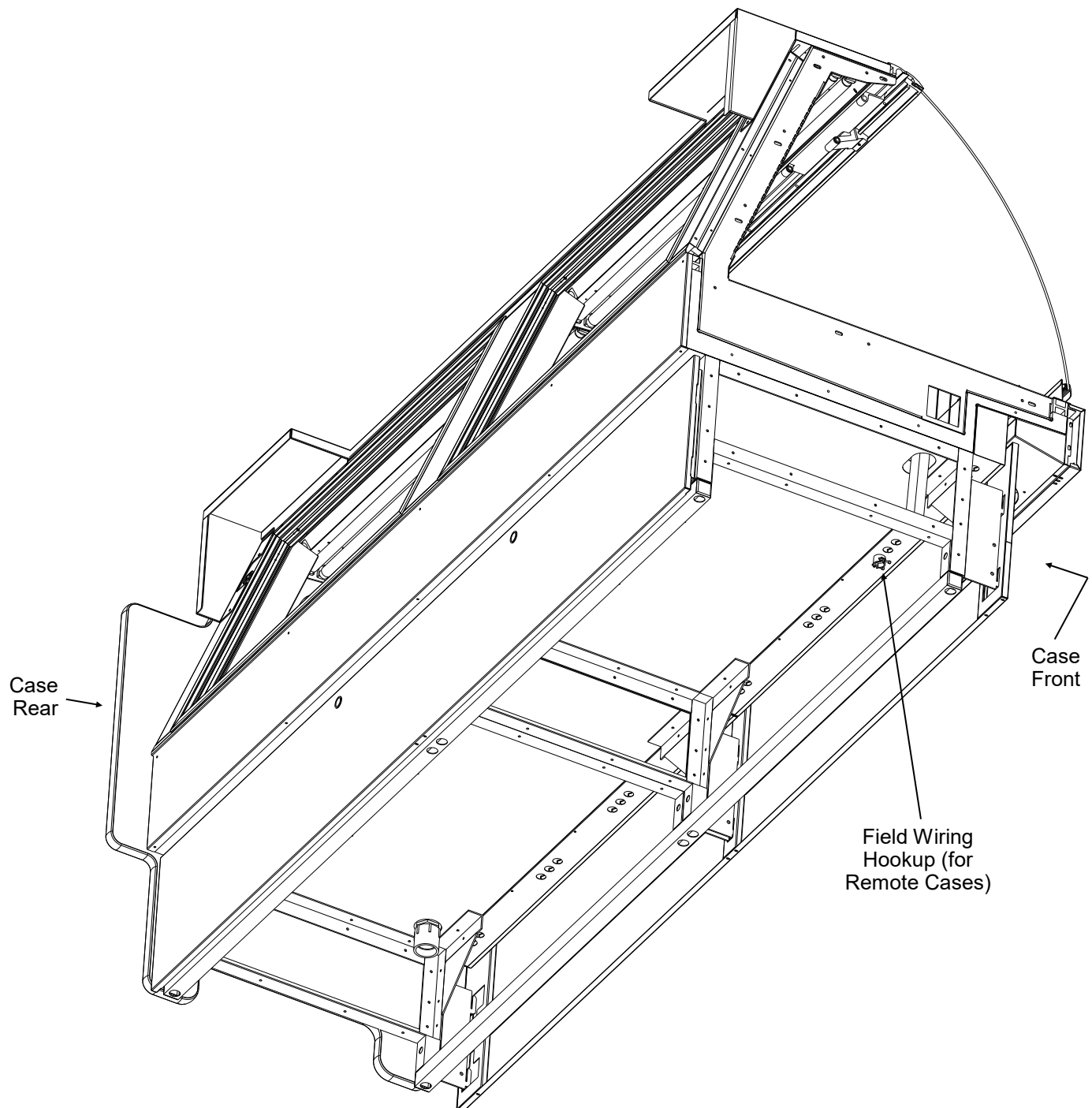
LIFT

5. Verification:

- After inserting shims, open and shut the front glass.
- Verify (again) that the front glass is properly aligned at both left-hand and right-hand side of the case.
- If not, repeat the shimming procedure until the front glass is properly aligned along both sides of the case.

1. Electrical Connections

- Field wiring hook-up / electrical access locations are shown in illustrations below (though they may not exactly reflect your particular unit).
- Single phase leads are provided.
- See Technical Information Sheet for more information.
- Remote Units (Standard Cases): This case is hard-wired. When power is supplied, the case will power-up.

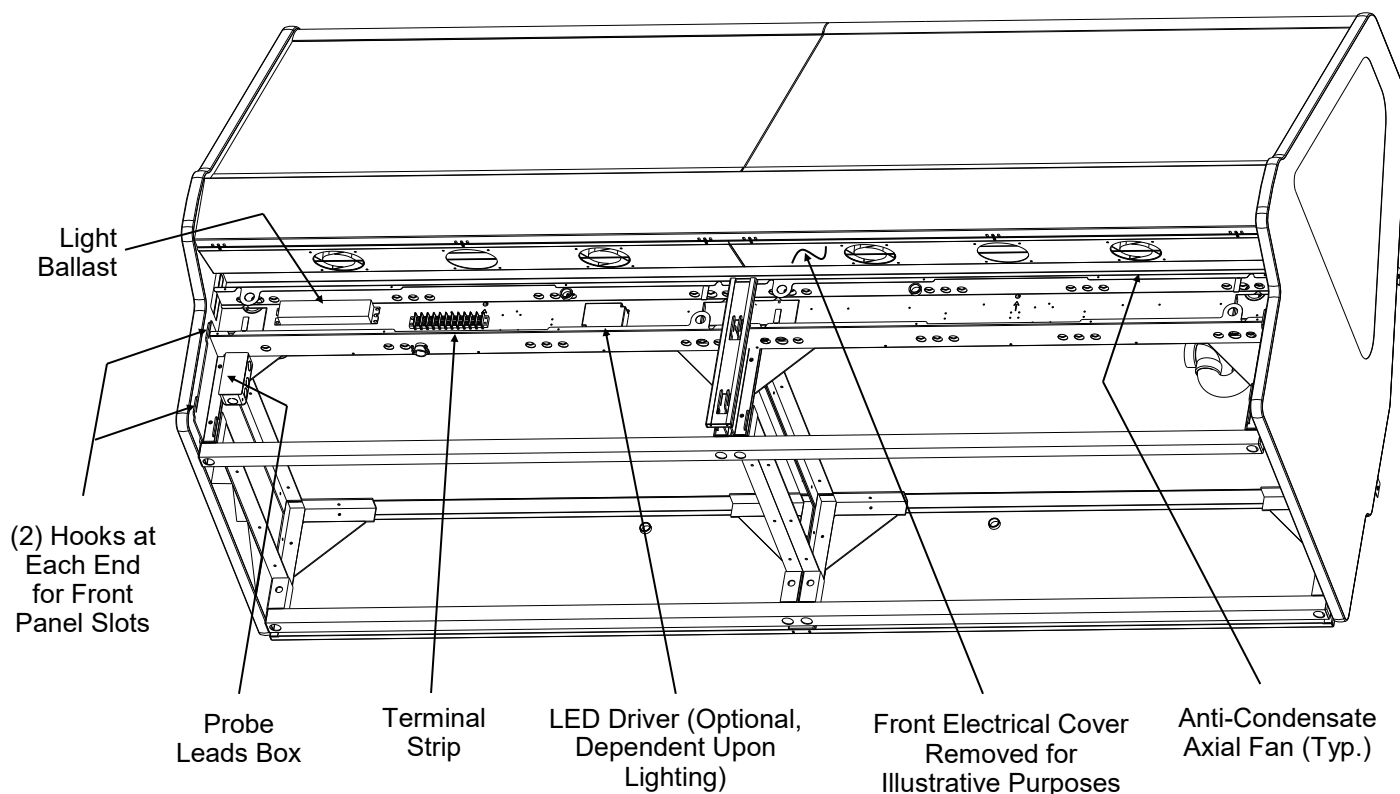


2. Probe Leads Box / Field Wiring Box / Ballast (or Optional LED Driver) / Terminal Strip / Anti-Condensate Axial Fans

- Probe leads are in probe leads box (on certain models). It is located at customer front-left of case (behind front panel).
- Field wiring box is also located at front left of case (behind front panel)
- Ballast (or optional LED driver) and terminal strip is also located behind front electrical cover (shown removed for illustrative purposes).

- Screws hold front electrical cover in place. Unscrew and drop electrical cover down & out.
- Anti-condensate axial fans (for front glass) may be accessed (at underside of front panel) by simply removing four screws, and dropping fans down.
- **Caution!** Only certified electricians are to access electrical components!

Note: Illustration shown may not exactly reflect every feature or option of your particular case.



--- View of GMDS8R With Front Panel and Electrical Cover Removed ---

1. Front Curved Glass

- Front curved glass may be raised by grasping lower edge and lifting upward.
- Mechanism will allow glass to remain in raised position without holding in place.
- See illustration at top-right.

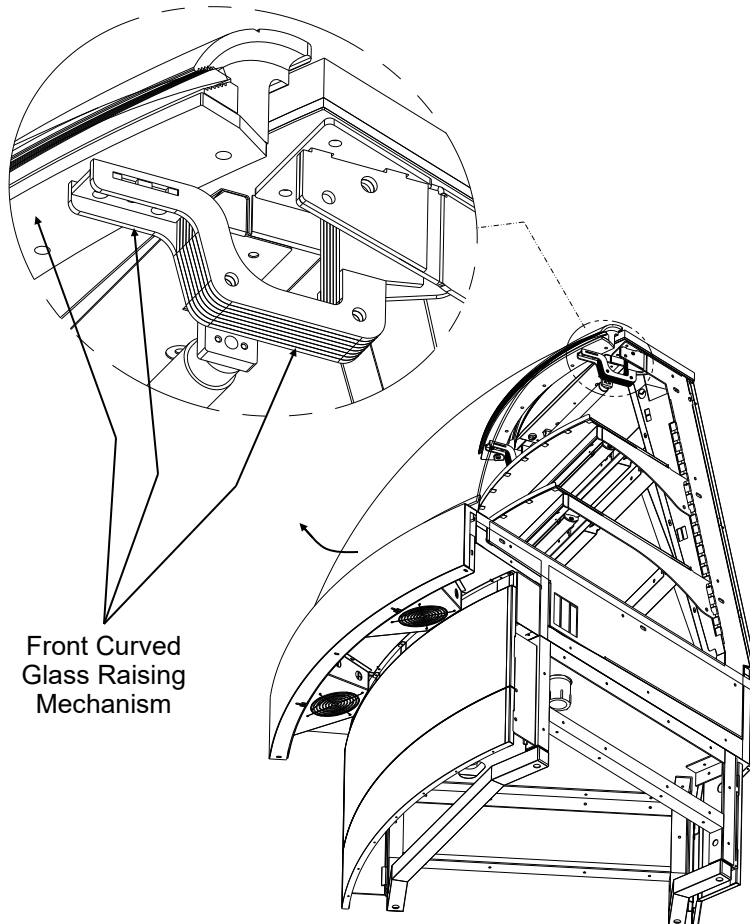
2. Lights and Doors

- Turn on the lights. Light switch is located on inside of case at top right, from case rear.
- See illustration at lower-left.

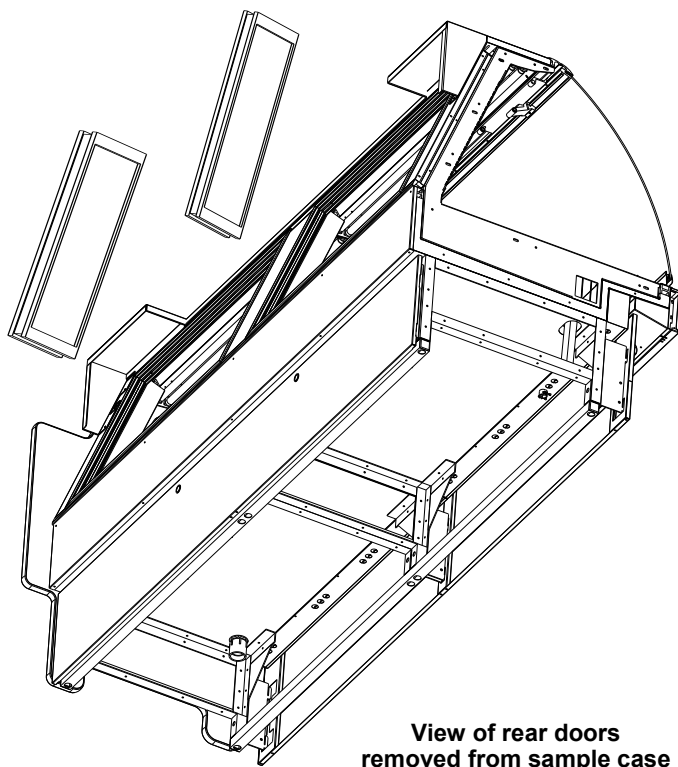
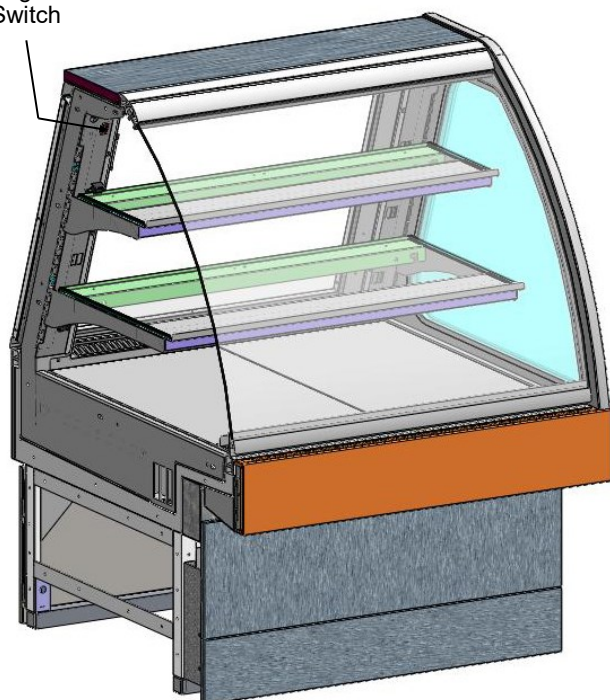
3. Removing the (Optional) Rear Doors

- Move rear doors toward the center of case.
- Individually lift each door up toward the top of case and pivot bottom of the door out.
- **Caution:** Gently set doors down to avoid marring, scraping, scratching or breakage.
- See illustration at lower-right.

Note: Illustrations shown may not exactly reflect your particular model, features or options.



Light Switch



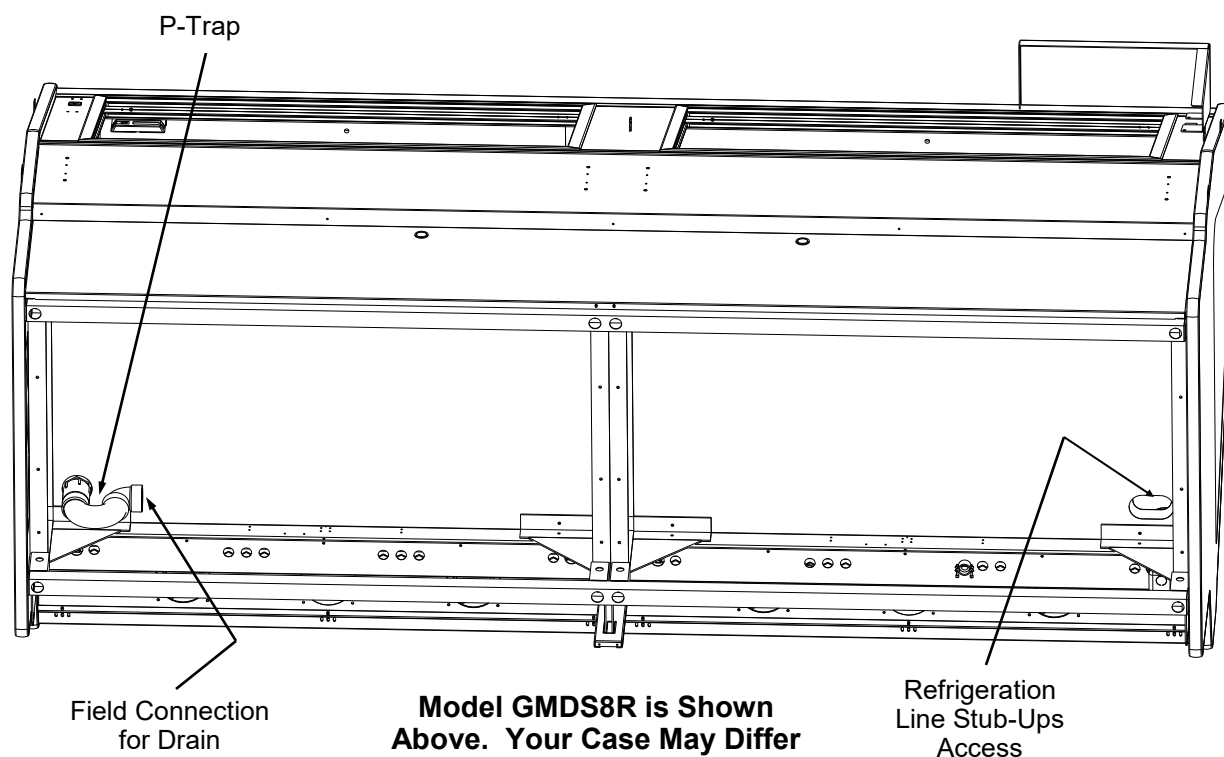
1. Refrigeration Line Stub-Up Connections

- Refrigerant stub-up access is at underside of case.
- Stub-up connections are accessed by removing rear panel (no screws required).
- Run case-to-case connections through cutouts in base.
- Sweat the high and low pressure connections.
- Fill access hole with suitable filler to insure watertight integrity of tub.
- Note: Illustration below may not reflect every feature or option of your particular case.

2. Drains

- Cases have drains at left and right hand sides.
- Longer cases may have drain at case center.
- Drain field connection is as shown below. See **MAINTENANCE FUNDAMENTALS - DRAIN / SHUT-OFF VALVE / BALANCE VALVE ACCESS** section in this manual for illustration of Balance Valve, Shut-Off Valve, Drain, Refrigeration Line Stub-Ups Access, etc.
- Depending upon drain access needs, either front or rear panel may be removed to gain access to drain stub-up.
- 1.5" male PVC stub-up connection is under case.
- Drain stub-up may be at case center in extended length cases.
- Connect tub drain to floor drain. Maintain 1/4"-fall per foot to provide proper drainage.

Note: Illustration shown may not exactly reflect every feature or option of your particular case.

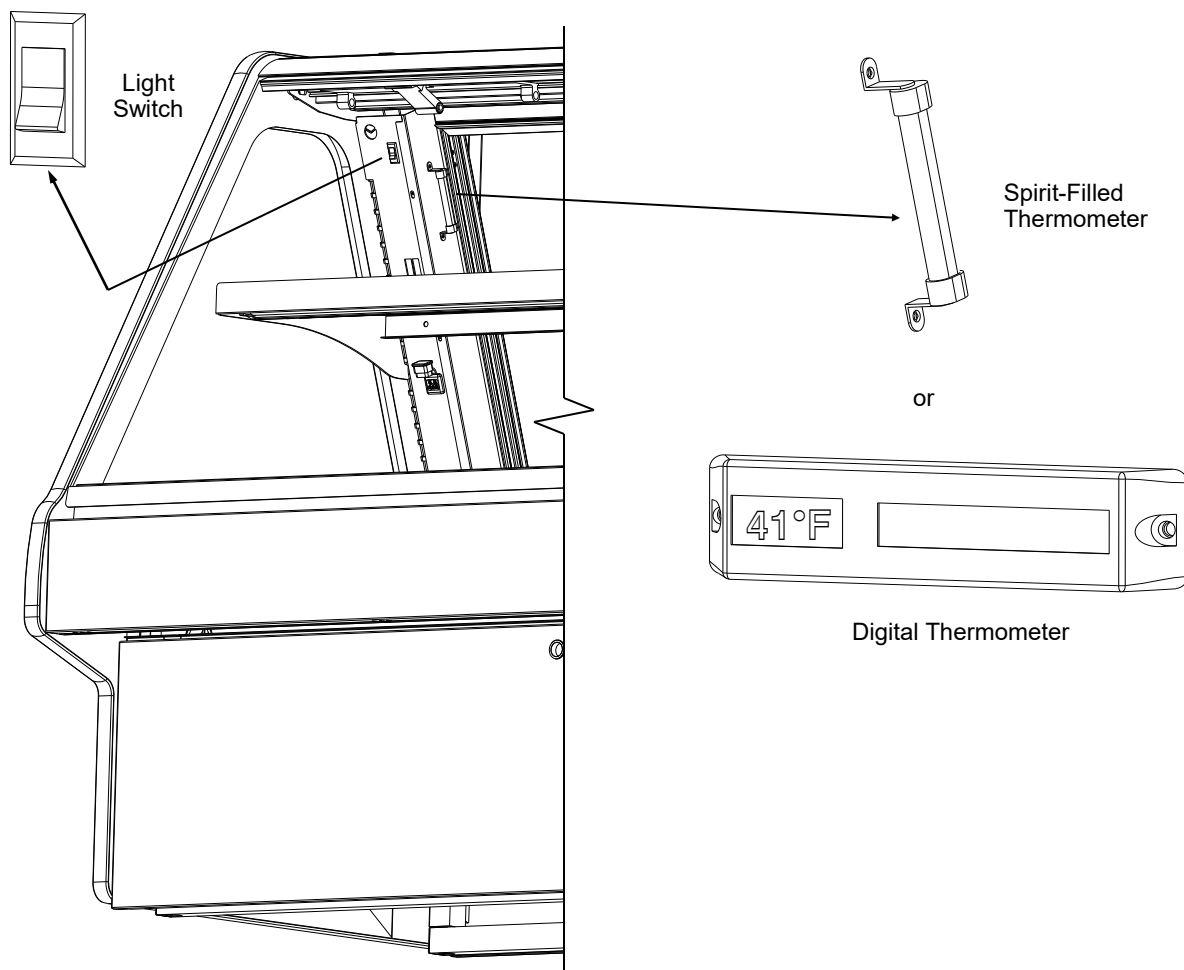


1. Merchandiser Start-Up

- Unit will energize when properly field wired.
- Evaporator coil fans will automatically turn on. From the front of the case, lift glass and remove the decking; check to see that the coil fans are all functioning properly.
- Lights switch is accessible at case front-left, near upright. See illustration below.
- Turn light switch on. All lights should come on at the same time. First time lighting may require a short warm up-period for the bulbs.
- Slightly dim or a flickering of new bulbs is normal.
 - If lights do not turn on, check all raceway plugs. The lighting is wired in series so **all lights must be plugged in or receptacles capped** in order for the case to light.
 - See next page for illustration of scale stand receptacles.

2. Thermometers

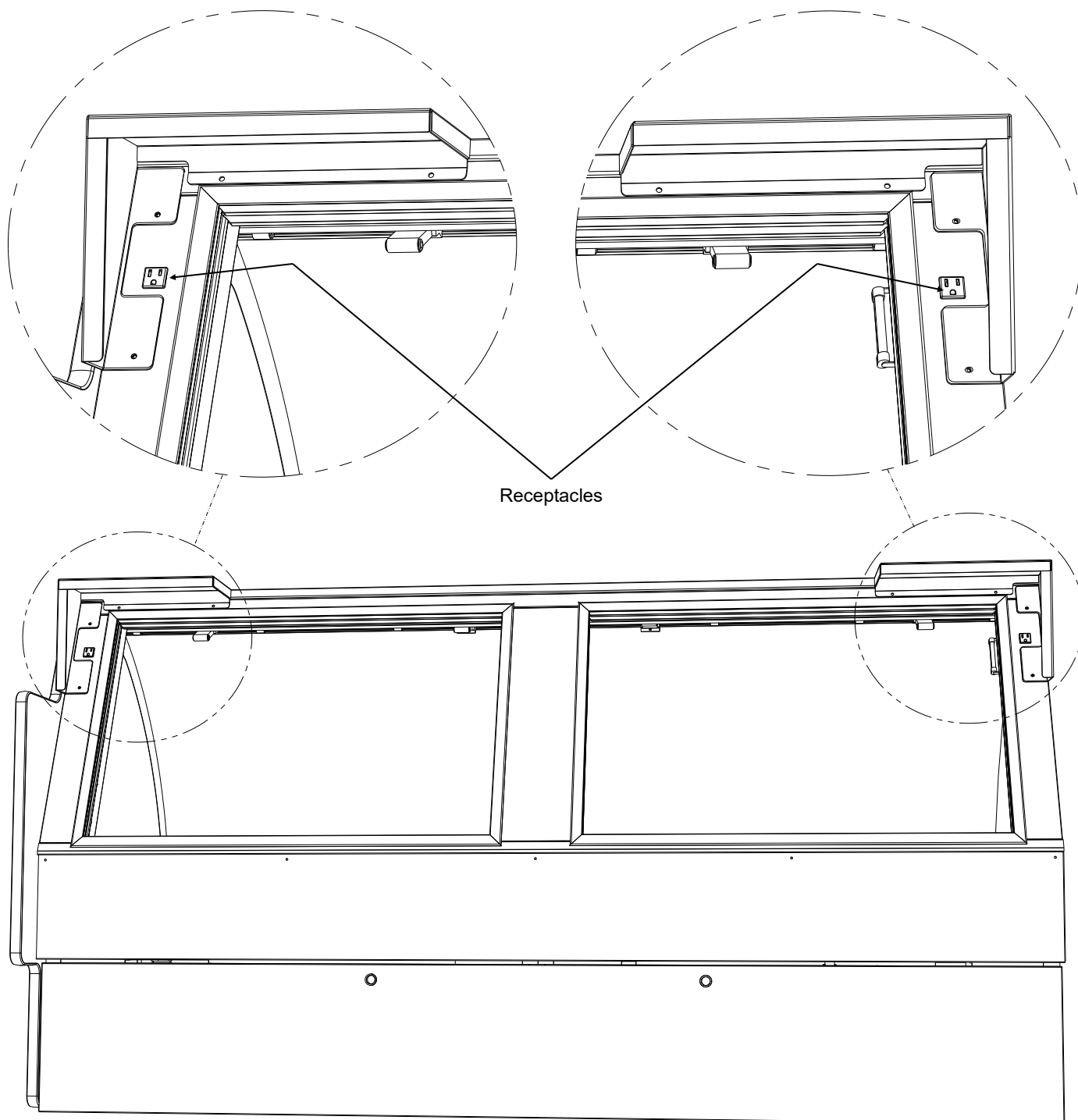
- Refrigeration section has been tested to maintain temperature at or below 5° Celsius / 41° Fahrenheit.
- Spirit-filled and/or digital thermometers are usually found at case rear near light switch.
- Thermometers are for monitoring warmest air temperature.
- Thermometers reflect internal air temperature only (not actual food temperature).
- Use probe thermometers to determine actual product temperatures.

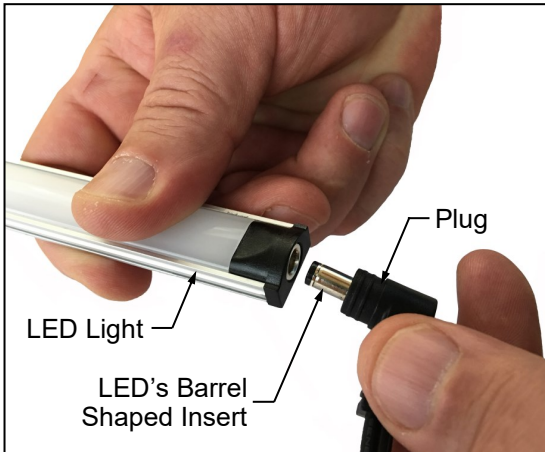


1. Scale Stand (Optional)

- Scale Stand locations and illustrations are shown below.
- Plug scale stand cord into receptacle(s) as shown in illustrations below.

Note: *Illustrations shown may not exactly reflect your particular model, features or options.*



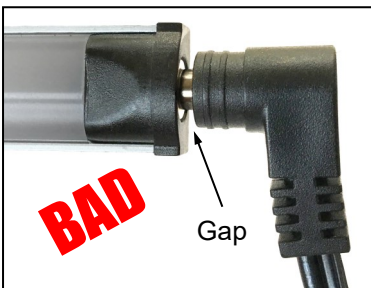


2. Power Cord and Plug

- Power cord and plug (for LED lights) locations vary depending upon model.
- Caution! You must plugged in an approved outlet!

3. LED Lights

- LED lights are usually located at both header and shelving of case; placement on your merchandiser may differ.
- Check that ALL of the light plugs are properly connected to the LED light.
- Plug must be inserted ALL THE WAY into the LED light orifice (with no gap) to work properly.
- See **TROUBLESHOOTING** section in manual if LED lights malfunction.



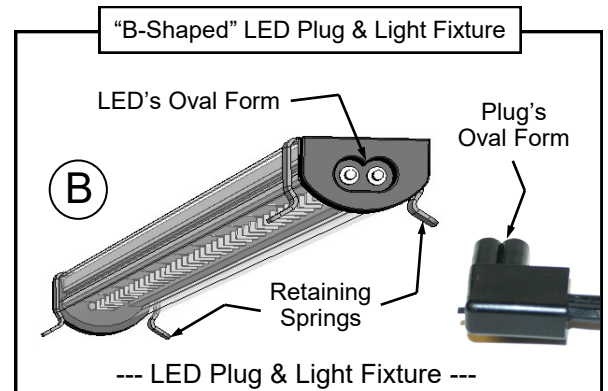
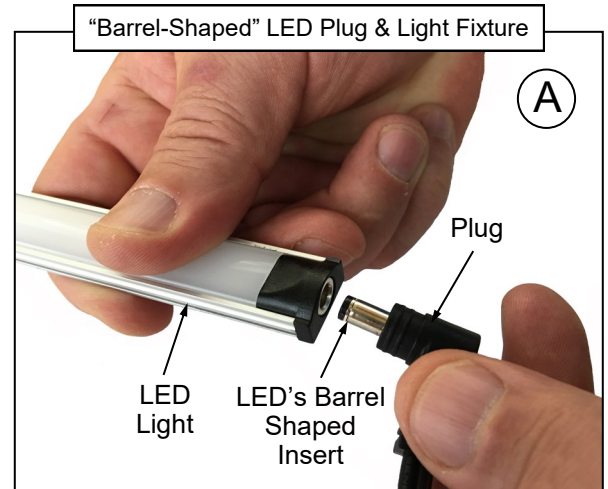
4. LED Style Light Fixtures

Removal of faulty LED light:

- LED lights rarely require change-out.
- To remove faulty LED light, simply grasp light near retaining spring and carefully pull away from its spring. Disconnect plug from LED's socket.
- Contact Structural Concepts' Technical Service Department for replacement parts (see Technical Service section of this manual for information).

Replacement of LED light:

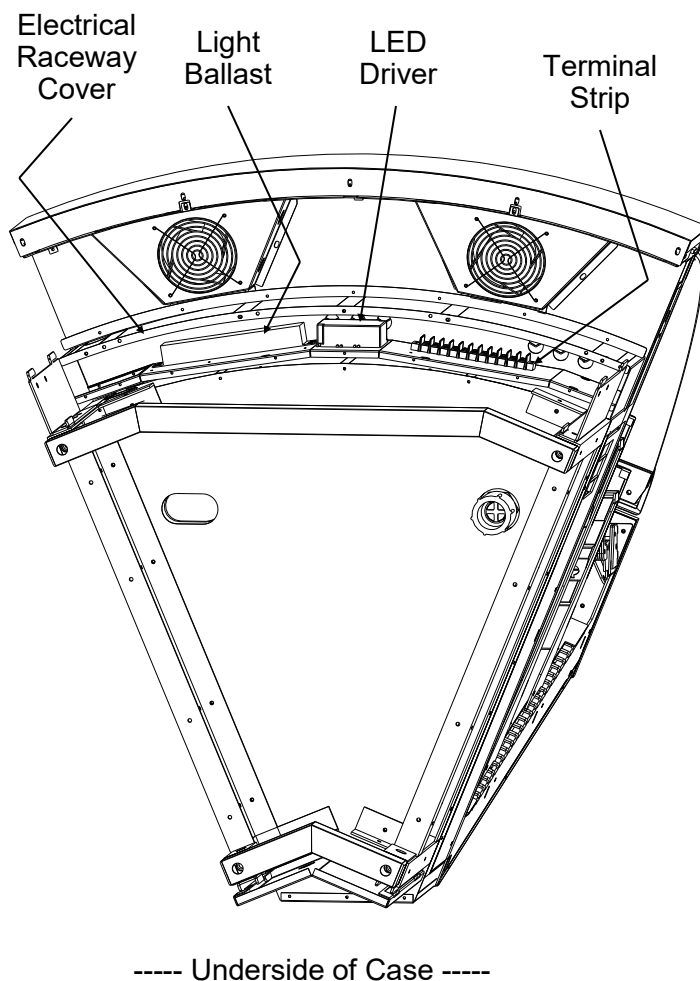
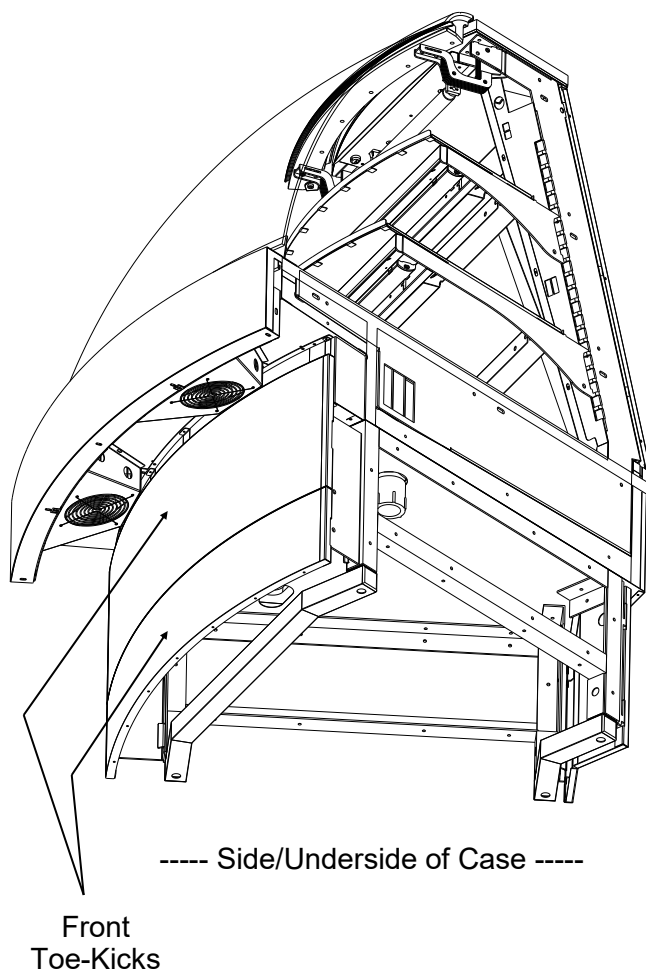
- To replace LED light fixture, simply insert new LED light at proper position (socket must be near plug). Carefully snap into metal springs so LEDs are held firmly in place.
- **Note:** LED light and plug must be connected in a specific manner or they will not work.
- A. Certain plug designs ("barrel type") merely require that plug be pushed all the way in.
- B. Other plugs require "oval edge" of plug to connect to oval edge of LED light.
- See illustrations at right.



5. LED Power Supply Access

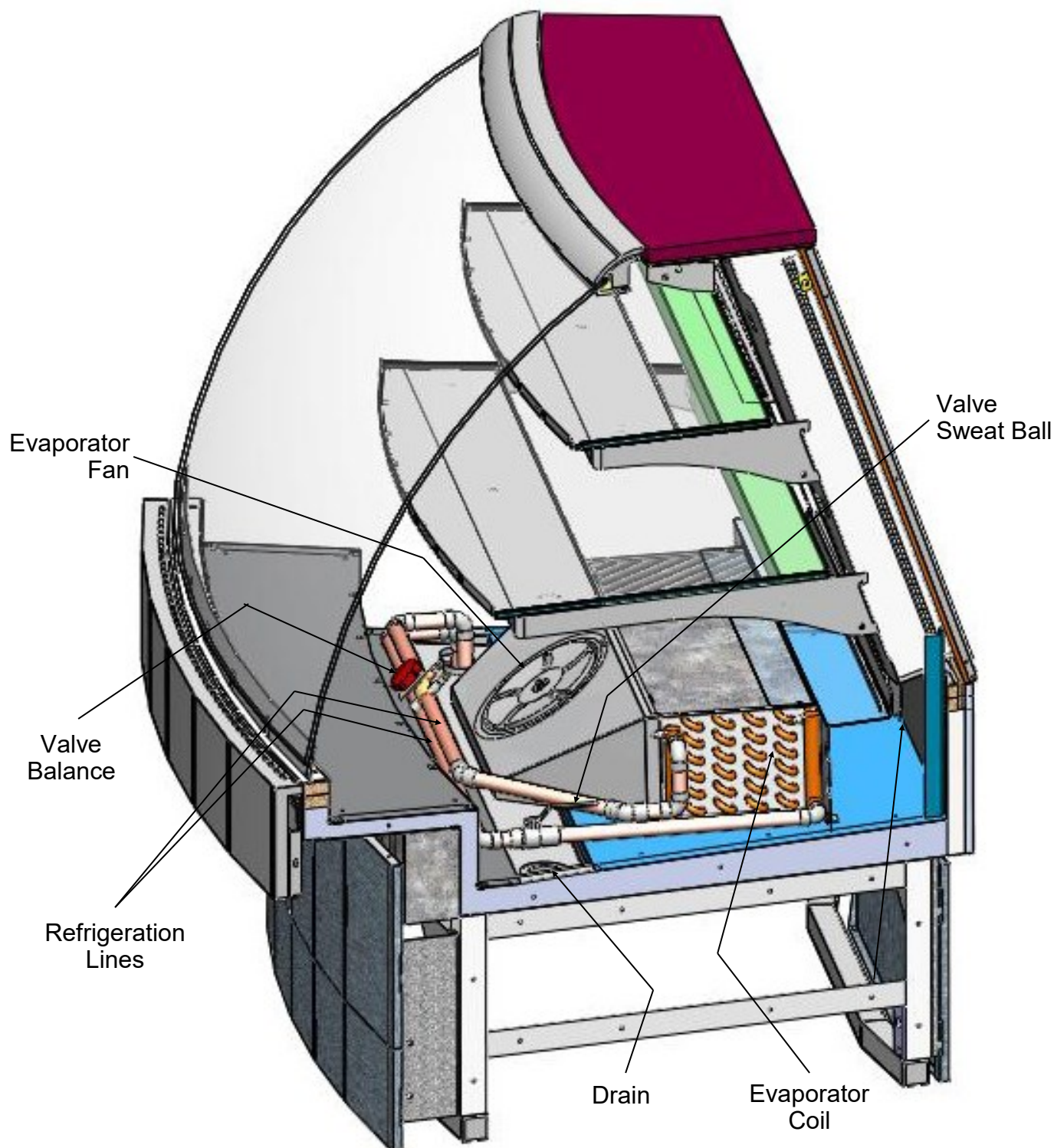
- Disconnect electrical power from unit.
- Remove front toe-kicks.

- Remove electrical raceway cover.
- After service/replacement, return the electrical raceway cover and toe-kicks in the reverse order they were removed.



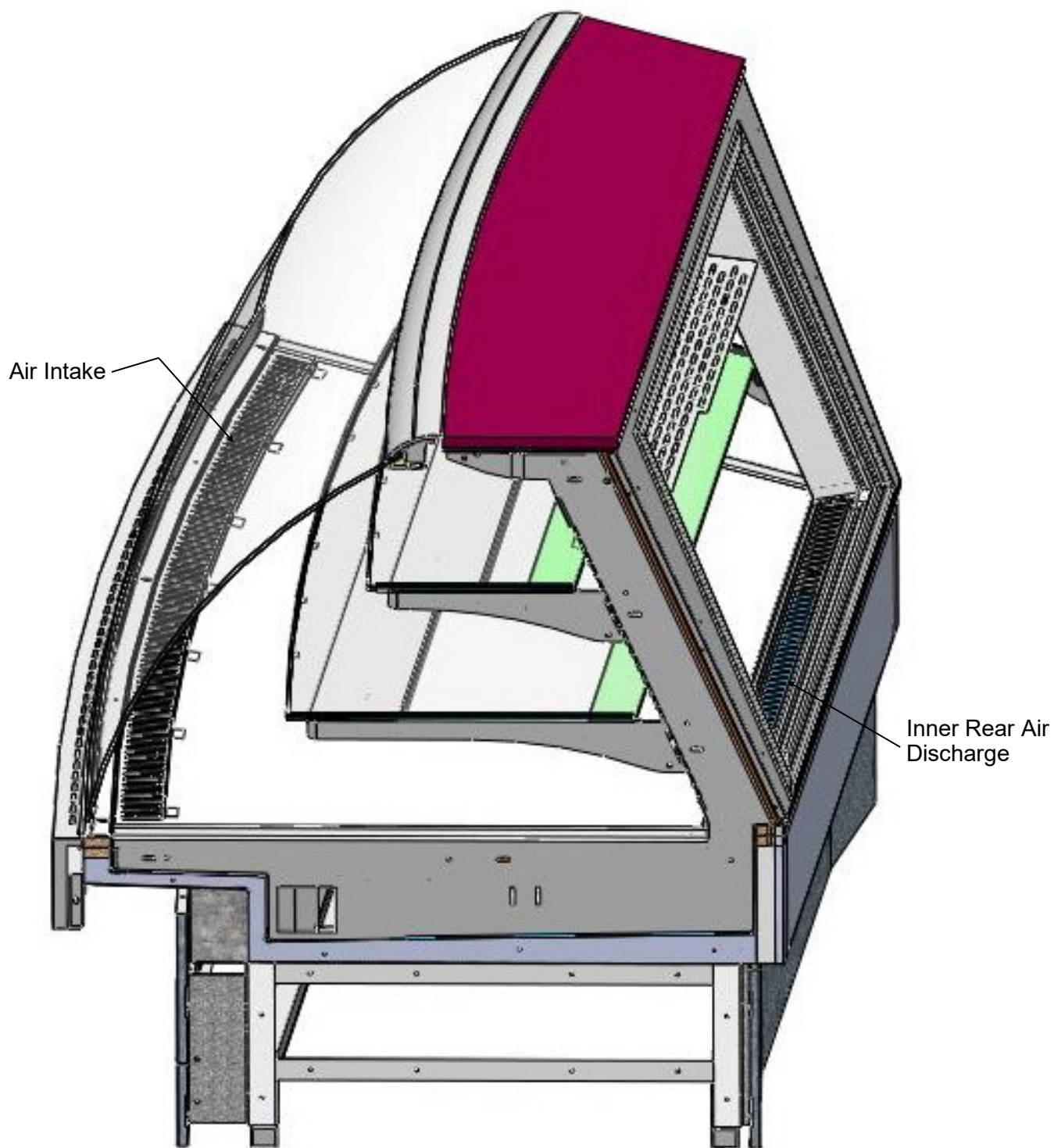
6. Evaporator Fan, TXV & Drain Access

- Caution! Turn Main Power off and disconnect from outside power source.
- Remove Decking and Sub-Deck
- Perform maintenance, service or cleaning as required.
- Return Decking and Sub-Deck to unit in reverse order in which they were removed.
- Note: Model GMSX2R.4954 is illustration below. Your case may not exactly reflect every feature option as unit shown.



7. Front Air Intake and Inner Rear Air Discharge

- Do not set product or utensils on intake or discharge.
- Proper airflow and temperature will be compromised if airflow is blocked.
- See illustration below.



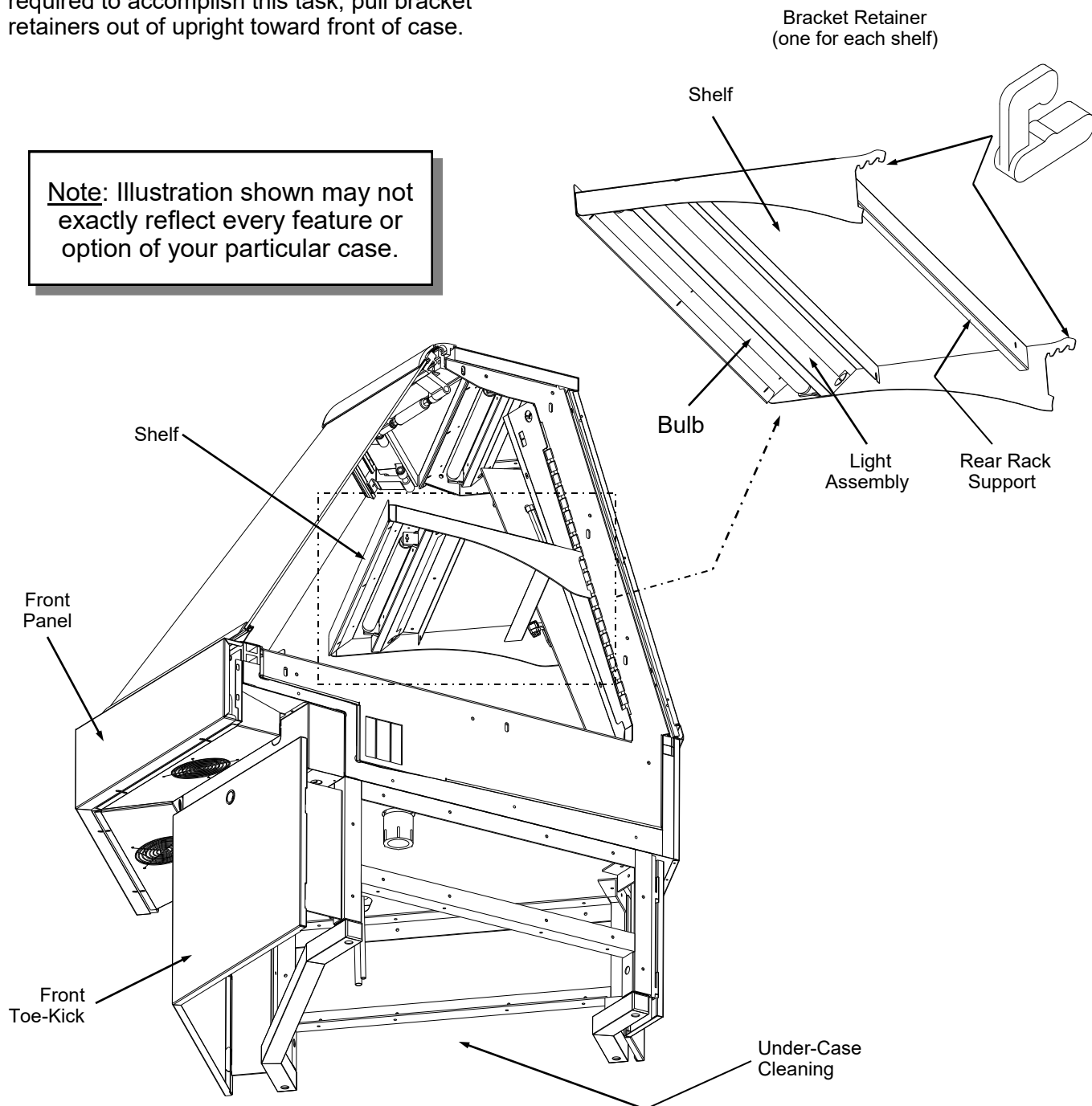
9. Shelf Assembly Removal

- Remove and set aside metal shelves.
- For lighted shelving, unplug the light cord and detach from the rear shelf support.
- Slide light assembly back to unlock, then rotate up to separate from brackets.
- Slide rear support back to unlock and rotate up to separate from brackets.
- Remove brackets. **Note: It may be necessary to remove the bracket retainer.** Pliers will be required to accomplish this task; pull bracket retainers out of upright toward front of case.

Note: Illustration shown may not exactly reflect every feature or option of your particular case.

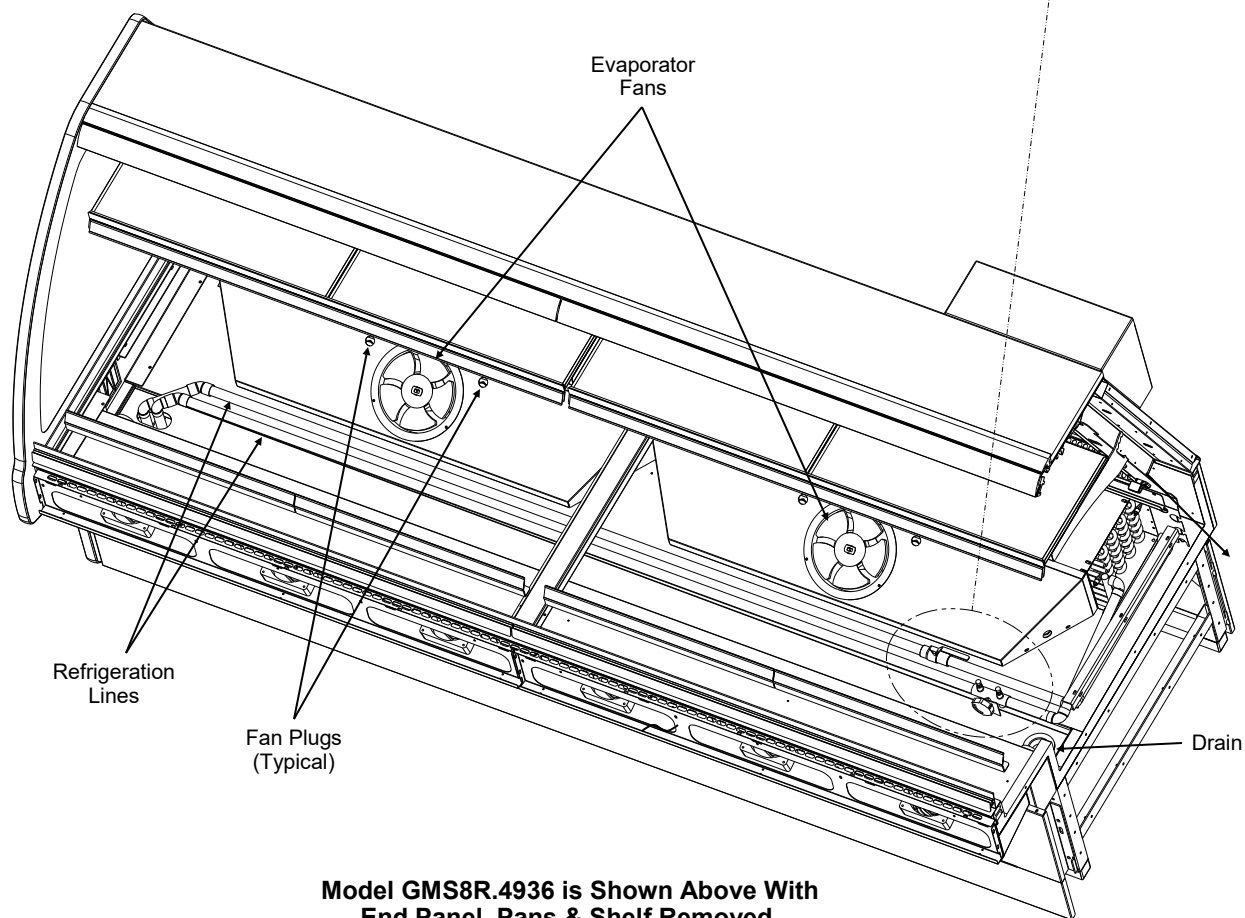
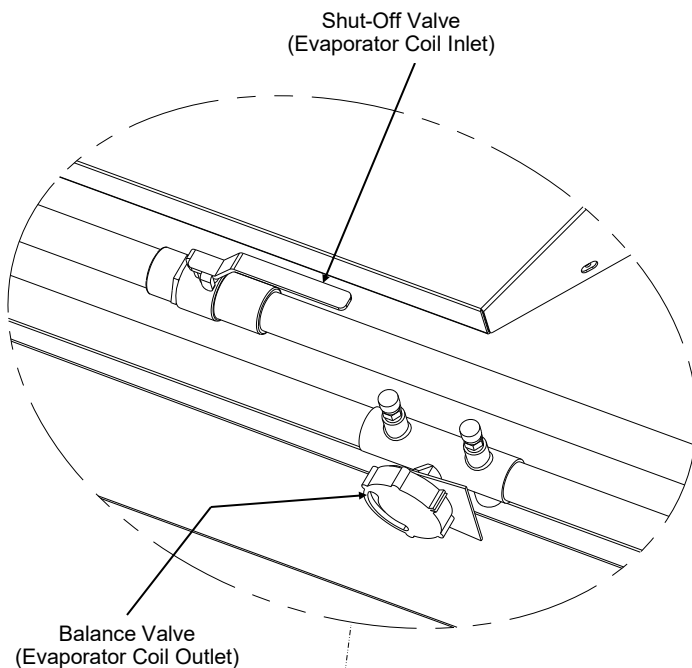
10. Under Case Cleaning

- Sufficient under case cleaning is accessible by hand or 1-1/2 inch diameter cleaning tool such as a vacuum hose.
- Extensive cleaning can be done by removing the Front Panel and / or the Rear Toe-Kick. See **Maintenance Fundamentals** section (under *Light Ballast Access/Removal*) for in depth instructions on removing front panel.



11. Drain / Shut-Off Valve / Balance Valve Access

- Access to valves and drain can be achieved by removing deck pans.
- All are accessible from front of case.
- Fans: Unplug fans and remove the fastener from the access panel in the front right (or left) side of the unit.
- See illustrations on this page for general location.
- **Caution!** Only authorized refrigeration technicians are to access valves!

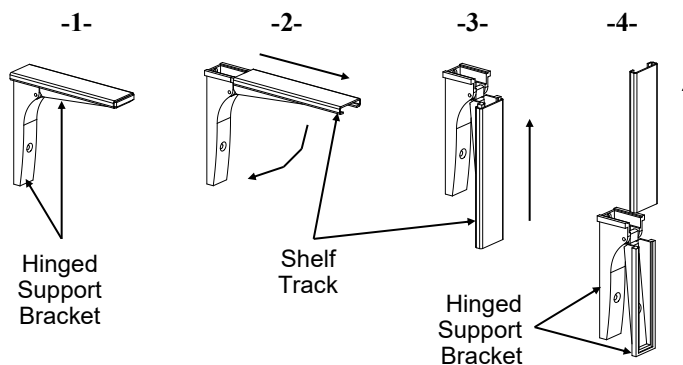


**Model GMS8R.4936 is Shown Above With
End Panel, Pans & Shelf Removed.
Your Case May Differ.**

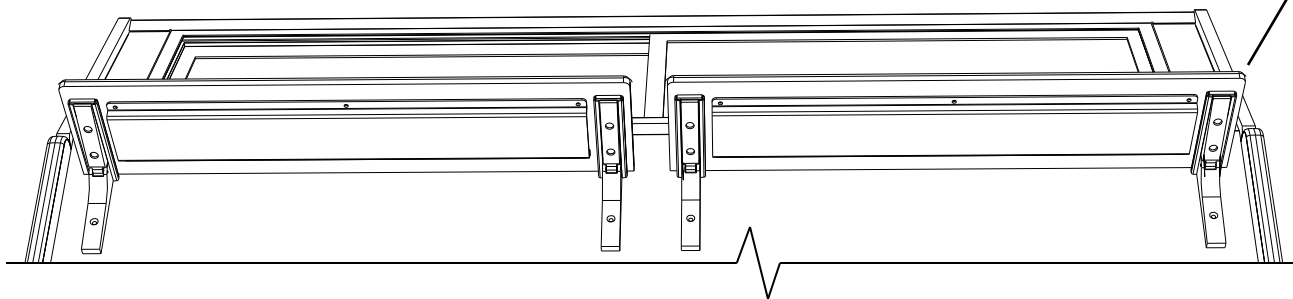
12. Rear Ledge Removal Steps

The illustrations at right and below reflect step-by-step removal method.

1. Hinged Support Bracket is shown in its standard upright position.
- 2 & 3. While upright, Rear Ledge must be slid away from case and then rotated downward to vertical position.
- 3 & 4. From the shelf's lowered position, lift from bottom edge upward to disengage shelf track (and attached Rear Ledge) from bracket.



Rear Ledge Removal Steps
Note: For clarity, only Shelf Track is shown being removed. Rear Ledge is attached to Shelf Track.





Serial Label Location & Information Listed / Technical Information & Service

- Serial labels are affixed at a wide range of places (on the header, near thermostat, at case rear, behind panels/toe-kicks, on electrical boxes, etc.).
- Serial labels contain electrical, temperature and refrigeration information, as well as regulatory standards to which the case conforms.

- Sample serial label shown below.
- For additional technical information and service, see the *TECHNICAL SERVICE* page in this manual for instructions on contacting Structural Concepts' Technical Service Department.

Structural Concepts®
888 E. Porter Rd - Muskegon, MI 49441

3048256
Conforms to UL Std. 471
Conforms to NSF/ANSI Stds. 2 & 7
CERTIFIED TO CAN/CSA
STD C22.2 NO 120

Super Heat Temp
Defrost

Reveal
Blend
Harmony
Impulse
Oasis

Addenda
Grocerant
Fusion

MODEL NRS3648RXV-SAMPLE
SERIAL NO. 12345X30DZ098765

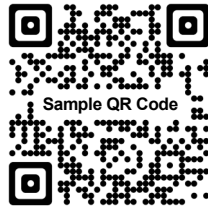
120/1/60 16 A
R513A AMOUNT 50 OZ
HIGH 186 LOW 88
20A
20A

ELECTRICAL RATING
REFRIGERANT
DESIGN PRESSURE
MINIMUM CIRCUIT AMPACITY
MAXIMUM OVERCURRENT

6-8 °F
6 defrosts per day, 45 °F

FOR PARTS AND SERVICE
CALL 1-800-433-9490

SCAN FOR PRODUCT LITERATURE



Sample QR Code

SAMPLE ONLY

SAMPLE ONLY

SAMPLE ONLY

SAMPLE ONLY

TYPE II DISPLAY REFRIGERATOR: THIS EQUIPMENT IS INTENDED FOR USE IN AN AREA WHERE THE ENVIRONMENTAL CONDITIONS ARE CONTROLLED AND MAINTAINED SUCH THAT THE AMBIENT TEMPERATURE DOES NOT EXCEED 80 °F (27 °C).

--- Sample Serial Label For Refrigerated Cases ---

CLEANING SCHEDULE (TO BE PERFORMED BY STORE PERSONNEL)

AREA	FREQ.	INSTRUCTIONS
Exterior	Daily	<u>All Glass / Mirrors:</u> Clean side glass, front glass and mirrors with household or commercial glass cleaner. Clean out door track with moist cloth.
	Daily	<u>Rear Sliding Door Exterior Glass:</u> Clean with household or commercial glass cleaner.
	Daily	<u>End Panels, Front Panel, Toe-Kick, etc.:</u> Wipe off all surfaces with warm water and mild soap solution and non-abrasive cloth.
	Daily	<u>Front Panel (if Veneer):</u> Do not use general cleaning solutions on veneer. Use Pledge™ or Murphy's Oil™. See illustration below for sample case with veneer on front panel.
	Daily	<u>CAMBRIA® NATURAL QUARTZ or SILESTONE® NATURAL QUARTZ:</u> See next two pages for cleaning instructions on these solid surfaces.
	Weekly	<u>Rear Sliding Door Tracks:</u> Slide door away from area to be cleaned (or entirely remove door). Use warm water and mild soap solution with cloth or sponge to clean along door tracks.
	Weekly	<u>Wood, Laminate and Painted Surfaces:</u> Clean with mild soap and water solution and a soft cloth .
	Weekly	<u>Air Filter (with Magnetic Strips) on Rear Grille (If Any):</u> Remove air filter. Rinse with hot water against air flow direction. Use mild detergent to remove smoke and grease stains.
	Monthly	<u>Under Case Cleaning:</u> Remove front toe-kick (or rear panel). Vacuum under case to remove all dust and dirt. Replace front toe-kick (or rear grille) when complete.
Interior	Weekly	<u>Decks:</u> Wipe off decks with moist cloth dipped in mild soap and water solution.
	Monthly	<u>Tub and Drain:</u> Keep clean and free of debris which could clog tub and drain. To access drain area, remove the deck and fan shroud. <ul style="list-style-type: none"> • Vacuum tub under deck. • Run hose into drain to flush out debris. Carefully hose out the tub. • Caution! Avoid splattering water over the case and surrounding areas!
	Monthly	<u>Air Return Grille and Fan Shroud Area:</u> 1) Turn off power. 2) Remove decks from case. 3) Clean with moist cloth. See Maintenance Fundamentals that pertain to <i>Evaporator Fan, TXV and Drain Access</i> for illustration.

Overview - Cambria® Natural Quartz Surface

- Cambria is created from pure natural quartz, an extremely hard stone crystal mined directly from the earth. In fact, quartz is the hardest non-precious stone to be found in the earth's surface.
- Cambria is non-porous, making cleanup easy and preventing food and moisture from penetrating its surface (the main source of growth for harmful bacteria).
- Cambria has been certified by NSF International for use as a food preparation surface.



Cleaning - Cambria® Natural Quartz Surface

Clean as often as desired with warm water and a pH neutral, non-abrasive cleaner such as Formula 409® or Simple Green®. Rinse with clear, clean water. No sealing, buffing or re-polishing is necessary.

Other guidelines to observe:

- For dried spills, use a wet cotton cloth.
- Avoid bleach, alkaline (high pH) cleaners such as oven cleaner, abrasive cleaners such as Comet®, Soft Scrub® products, or other products containing pumice, SOS® pads, and other similar products, paint removers, furniture strippers, tarnish or silver cleaners or the like.
- Do not apply any sealers, penetrants or topical treatments to Cambria® under any circumstances.
- Natural stone surfaces can be damaged by sudden and rapid change of temperature especially near the edges, as well as direct or sustained heating of the top.
- Cambria® may not withstand the direct transfer of heat from pots and pans and other cooking units such as electric frying pans and griddles, and some crock-pots or roaster ovens and heat lamps. Therefore, the use of a hot pad or trivet is always recommended.
- Cambria® will resist stains from fruit juices, food coloring, coffee, tea, wine, grape juice, nail polish and felt tip markers.

CLEANING & MAINTENANCE of SILESTONE® NATURAL QUARTZ SURFACE BY COSENTINO

Routine Care	<p><u>For Daily, Routine Cleaning:</u></p> <p>Silestone® requires very little maintenance. Simply wipe your Silestone surface with soap and warm water on a regular basis to maintain its beauty and shine for years to come. Any pH balanced general-purpose household cleaner may be used (e.g. dish soap, Windex®).</p>
Difficult Spills	<p><u>For Difficult Spills:</u></p> <p>To remove difficult spills, wipe the surface with warm water and soap. If needed, apply a common household cleaner. For stains that harden as they dry, such as food, gum, nail polish, and paint, remove by gently scraping off of surface (using a blade or putty remover), and then clean using warm water and soap. Gray marks left by the razor, can be wiped away with soap and water. Silestone®'s advanced technology makes its surface extremely resistant to damaging chemicals. Difficult spots may be treated with one of the cleaners listed below. Leave the cleaner to sit for up to 10 minutes. Scrub and rinse thoroughly.</p> <div style="display: flex; align-items: center;"> <ul style="list-style-type: none"> • Acetate • Lacquer Thinner • Rubbing Alcohol • Ammonia • Mineral Spirits • Vinegar • Formula 409® • Paint Thinner <div style="margin-left: 20px;"> <p>Caution should be exercised in the handling and storage of any of the chemicals / products listed to the left. Each product's manufacturer's instructions should be consulted and utilized when using and storing these products.</p> </div> </div>
Extreme Heat Protection	<p><u>Extreme Heat Protection:</u></p> <p>Silestone® is extremely resistant to heat, and can withstand moderately high temperatures for brief periods of time without being damaged. Although Silestone® is more heat resistant than any other stone surface, all stone can be damaged by sudden and extreme temperature changes, especially near the edges. For this reason, it is recommend that a trivet or a hot pad be used to protect the Silestone® surface from extreme heat.</p>
Chemicals To Avoid	<p><u>Chemicals To Avoid:</u></p> <p>Avoid exposing your Silestone® surface to strong chemicals and solvents.</p> <ul style="list-style-type: none"> • <i>Items to avoid include: nail polish remover, permanent markers or inks, oil soaps, and furniture cleaners or paint strippers that contain trichlorethane or methylene chloride.</i> • Also avoid exposing you Silestone® surface to chemicals with high alkaline/PH levels, such as oven cleaners. <p>Caution must be used for the following:</p> <ul style="list-style-type: none"> • Products containing oils or powders may leave a residue. • Repetitive use of abrasive scrubs/cleaners may dull Silestone®'s finish. • Use of oven/grill cleaner may discolor Silestone® and should be avoided. • Repetitive exposure to extreme heat may damage Silestone's finish. <p>Apparent stains like coffee, food, makeup, etc.:</p> <ul style="list-style-type: none"> • Apply the appropriate cleaner with a paper towel and wipe. If necessary, the area may be soaked with pads of paper towels from 3-10 minutes; • Scrub the area. Rinse thoroughly. Dry thoroughly.
Extreme Scratch Protection	<p><u>Extreme Scratch Protection:</u> Although Silestone® is extremely scratch resistant, Silestone® surface should be protected by using a cutting board to avoid damage to knives.</p>

TROUBLESHOOTING

CONDITION	TROUBLESHOOTING
Case Not Lining Up	See Installation Section for instructions on properly aligning case (alongside other cases) and adjusting levelers.
Product is Drying Out	Check the relative humidity in the store.
Water Is On The Floor	Check that the drain trap is free of debris.
	Check that the drain hose is correctly positioned over the floor drain.
	Check store conditions. Conditions should be 55% humidity / 75° Fahrenheit to prevent condensation.
Fan Emits Excessive Noise	Check that the case is aligned, level and plumb.
	Check evaporator fan for cleanliness.
	Unplug/power off fan motors. Check motor shaft for excessive bearing wear.
	Check that fan motors are securely mounted in brackets.
	Verify that fan blades are securely mounted to fan motor.
	Check that nothing is preventing blade rotation.
	Check that the fan shroud is properly secured.
Fans Are Not Working	Check that fans are plugged in at the fan shroud.
	Check for foreign material obstructing fan performance.
	Check that fan blades freely rotate within fan shrouds.
	Check that power is going to fans.
	Check that fan wiring is connected on terminal blocks.
	Check that MAIN power switch (if any) is turned on.
	Check if there is ice build up blocking the fan.
System Is Not Operating	Check that the utility power is on.
	Check the circuit breaker box for tripped circuits.
	Check that the MAIN power switch (if any) is turned on.
	Check that unit is properly plugged in (self contained units).

TROUBLESHOOTING, CONTINUED

CONDITION	TROUBLESHOOTING
Case Lights Are Not Working	Check that light switch is in the <i>on</i> position.
	Turn lights off and then check bulbs for proper connection.
	Check for burned out bulbs. Turn lights off & replace.
	Clean dirt and dust from the bulbs to prevent flickering.
	Check to insure voltage at ballasts. If voltage is entering but not exiting ballast, ballast is faulty.
Case Is Not Holding Temperature	If a large amount of warm product was added to the case, it will take time for the temperature to adjust. Unit needs product to be pre-chilled.
	Check that the discharge air is not disrupted or blocked by product. See Startup and Operation section for limitations.
	Check that the case is not in the sun or near a heat or air-conditioning vent.
	If case is located near front doors, temperature fluctuation can hinder unit's ability to maintain temperature.
	Check air grilles for obstructions.

PREVENTIVE MAINTENANCE (TO BE PERFORMED BY TRAINED SERVICE PROVIDER)

PREVENTIVE MAINTENANCE	FREQUENCY	INSTRUCTIONS
Case Exterior	Quarterly	<u>Under Case Cleaning</u> : Once refrigeration package is clear of unit, vacuum under case to remove all dust and dirt that may collect under case.
Case Interior	Quarterly	<u>Evaporator Fan Blades, Motor, and Bracket</u> : Wipe down each blade, motor and bracket with moist cloth.
		<u>Tub, Coil and Drain</u> : Remove evaporator fan shroud panel and clean Tub, Coil and Drain with warm water and mild soap solution. Remove any debris that may clog drain.
	Quarterly	<u>Honeycomb</u> : Remove the honeycomb. Vacuum, then clean with warm water and soap. See <i>HONEYCOMB AIR DIFFUSER REMOVAL / REPLACEMENT</i> sheet in this manual for removal / replacement instructions.

STRUCTURAL CONCEPTS TECHNICAL SERVICE CONTACT INFORMATION & LIMITED WARRANTY

TECH SERVICE/WARRANTY CONTACT INFO:
1 (800) 433-9490 / EXTENSION 1

DAYS/HOURS AVAILABLE:
MONDAY - FRIDAY (CLOSED HOLIDAYS)
8:00 a.m. TO 5:00 p.m. EST

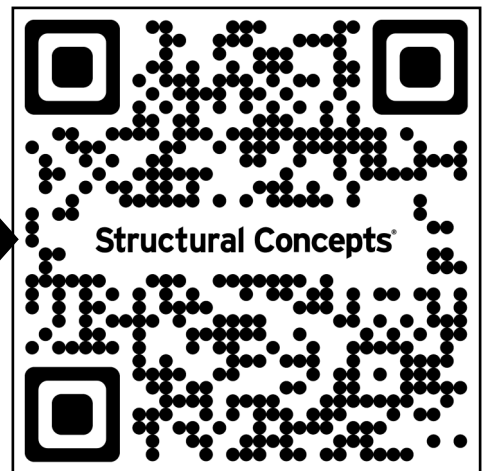
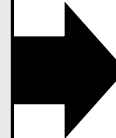
**YOU MUST HAVE THE FOLLOWING INFO AVAILABLE
BEFORE CONTACTING STRUCTURAL CONCEPTS:**

SERIAL NO. / MODEL NO. / STORE NO. / STORE
ADDRESS / DETAILS (PHOTOS, LEAK LOCATIONS,
DAMAGE, STORE'S AMBIENT CONDITIONS, ETC.)

**To Access The Limited Warranty To Your
Case, Follow These Instructions:**

> If Viewing This Document on Smart Phone,
Tablet or Computer, Select/Click On The QR
Code at Right.

> If Viewing This Document In Print (Hard
Copy), Scan The QR Code at Right With Your
Smart Phone or Tablet.



DATE DUE / COMMENTS: _____

DESCRIPTION:

WORK ORDER / SEQ No.	MODEL(S)	PART No.	SIZE(S)	COMMENTS
Aras #5045/#5047				

ROUTINGS / SIGNOFF

ROUTED TO:	DEPARTMENT	INITIALS	SIGNOFF DATE	COMMENTS
LINDA KARR	REGULAT. COMPLIANCE			
BK, JP, BD, RP	REFRIG. ENGINEERING			
RS, BA, JH, DG	PROD. MANAGEMENT			
TODD ALDRIDGE	PROJ. MANAGEMENT			
KARL ROSENCRANTS	PROJ. MANAGEMENT			
VERN DEBOER	PROJ. MANAGEMENT			
FRED VANDONKELAAR	PROJ. MANAGEMENT			
BERT OGBORN	TECHNICAL WRITER			

REVISIONS

REV LEVEL	DATE	BY	REVISION(S)
A	10.13.2010	BRO	RELEASE FOR PRODUCTION. Used 5-7185 as template.
B	1.31.2011	BRO	Per meeting w/Bill V., combined manual 5-8027 with this one. SWUE showed models GMS8R.4936, GMS8R.5003 and GMBS4R IN 5-8027. Other models eventually to be included in 5-8027 include the GMBS3R, 5R, 6R, 8R, 10R and 12R.
C	1.18.2012	BRO	Revised Overview/Warnings Sheet; Matting, etc.
D	8.10.2012	BRO	Revised warranty sheet and overview/warnings sheet. Changed cover sheet to read "Medium Volume Merchandisers" rather than "Mid-Volume..." Dropped reference to NSF throughout manual (as it relates to Type 1 and 2, etc. Specified GFCI mandate (rather than recommendation). TXV was TXV Valve.
E	4.16.2014	BRO	Added model GMBSX252R.
F	6.24.2014	BRO	Added...then removed Models GMBS552R & GMBS652R (INDIA RESOURCES). Revised Warranty Sheet. Added Model GMBS452R and GMDS6R.6035B; Specified That Manual Represents "Curved Front Glass Units."
G	10/24/22	CTG	REVISED O/W SHEET INFO, SERIAL LABEL, SCC LOGO, PRODUCT FAMILY LOGO & FILE NAME. REPLACED CONTROLLER AND WARRANTY SHEET INFO W/SINGLE SHEETS (WITH QR CODES) PER QR CODE IMPLEMENTATION PROTOCOL.