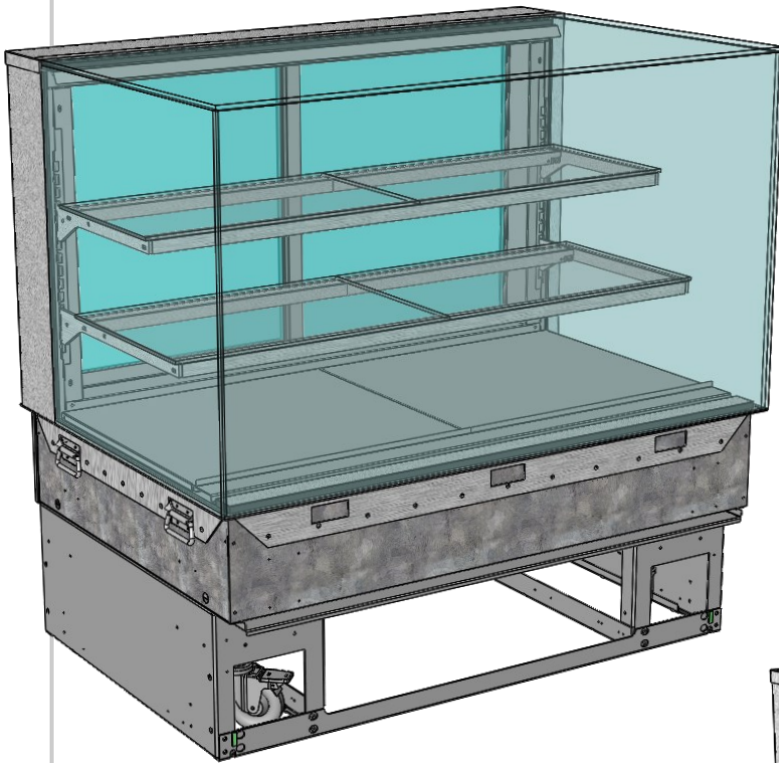


# Reveal<sup>®</sup> USER MANUAL

SCC P/N  
20-88461

**REVEAL<sup>®</sup> FREE STANDING, DRY (AMBIENT) SERVICE MERCHANDISERS**

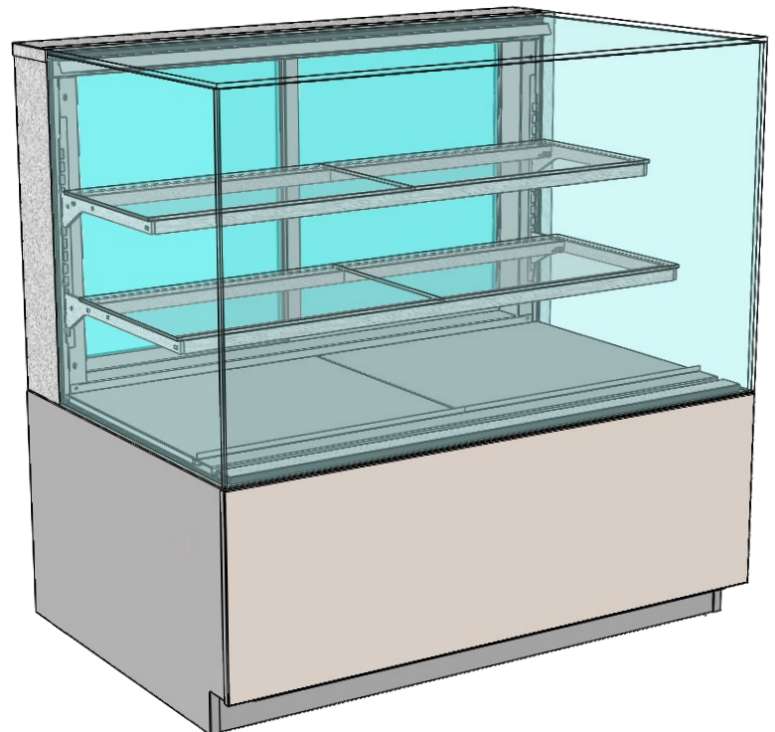
- > REAR SLIDING DOORS
- > **CAUTION! DO NOT PUSH OR PULL ON UPPER GLASS ENCLOSURE!**
- > **ONLY USE HANDLES (AT EACH END OF CASE) TO PUSH OR PULL CASE INTO POSITION!**
- > SEE PAGE 8 and 9 FOR FRONT PANEL, SIDE CLADDING, REAR PANEL & TOE-KICK ATTACHMENT GUIDE



Models Are Shipped WITHOUT Panels or Cladding Attached. See Pages 8 and 9 For Component Attachment Instructions.

Model NR4847DSV Shown Before Front/Side Cladding and Toe-Kick Have Been Attached

Model NR4847DSV Free Standing Unit Shown After Front/Side Cladding and Toe-Kick Have Been Attached



**Structural Concepts<sup>®</sup>**

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**OVERVIEW**

- Cases should be installed and operated according to this operating manual's instructions to insure proper performance.
- Improper use will void warranty.

**COMPLIANCE**

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

**LAMP REPLACEMENT PRECAUTIONS**

- Following lamp replacement guidelines can prevent damage to unit.
- Please read carefully!

**ELECTRICAL HAZARD WARNING**

- Please read the important warning in this document carefully as it can prevent injury or death.

**WIRING DIAGRAM**

- Each case has its own wiring diagram folded and in a packet.
- Wiring diagram placement may vary (near ballast box, field wiring box, raceway cover, or other related location).

**WEIGHT LOADS ON GLASS / PREVENTING SAGGING**

- Caution! To prevent sagging or breakage of glass, do not exceed 5 LB (2.3 KG) weight load per top glass section (between vertical supports).
- To prevent scratching or marring, do not place ANY items on glass.



**ATTENTION  
CONTRACTORS**

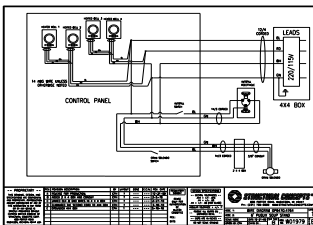
**COMPLIANCE**  
This equipment **MUST** be installed in compliance with all applicable NEC, federal, state and local electrical codes.



**CAUTION! LAMP REPLACEMENT PRECAUTIONS**  
LED lamps reflect specific size, shape and overall design. Any replacements must meet factory specifications.



**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.*



**WIRING DIAGRAM FORMAT & LOCATION**

- Each case has its own wiring diagram folded & in its own packet.
- Wiring diagram placement may vary; it may be placed near field wiring box, raceway, or other related location.



**CAUTION!**

- To prevent sagging or breakage, do not exceed 5 LBS (2.3 KG) weight load per top glass section (between vertical supports).
- To prevent scratching or marring, do not place ANY items on glass.

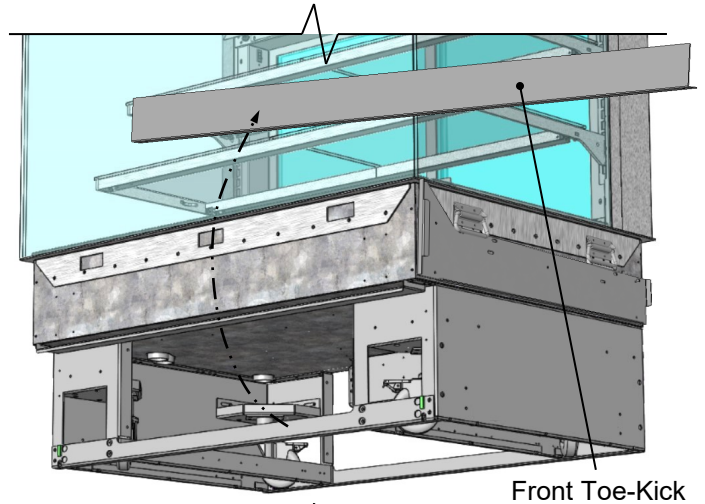
**REVEAL® FREE STANDING DRY (AMBIENT) SERVICE MODEL APPLICABILITY & DIMENSIONS**

<b>Model</b>	<b>Upper Display Height</b>	<b>Overall Height</b>	<b>Depth x Length</b>
NR3633DSV	13 5/8"UDH	32 7/8"OH	33"D x 35 3/4"L
NR3640DSV	20 3/8"UDH	39 5/8"OH	33"D x 35 3/4"W
NR3647DSV	27 7/8"UDH	47 1/8"OH	33"D x 35 3/4"W
NR3655DSV	35 1/4"UDH	54 5/8"OH	33"D x 35 3/4"L
NR4833DSV	13 5/8"UDH	32 7/8"OH	33"Dx 47 3/4"L
NR4840DSV	20 3/8"UDH	39 5/8"OH	33"D x 47 3/4"L
NR4847DSV	27 7/8"UDH	47 1/8"OH	33"D x 47 3/4"L
NR4855DSV	35 1/4"UDH	54 5/8"OH	33"D x 47 3/4"L

## INSTALLATION: TOE-KICK & REAR PANEL REMOVAL / REMOVING CASE FROM PALLET

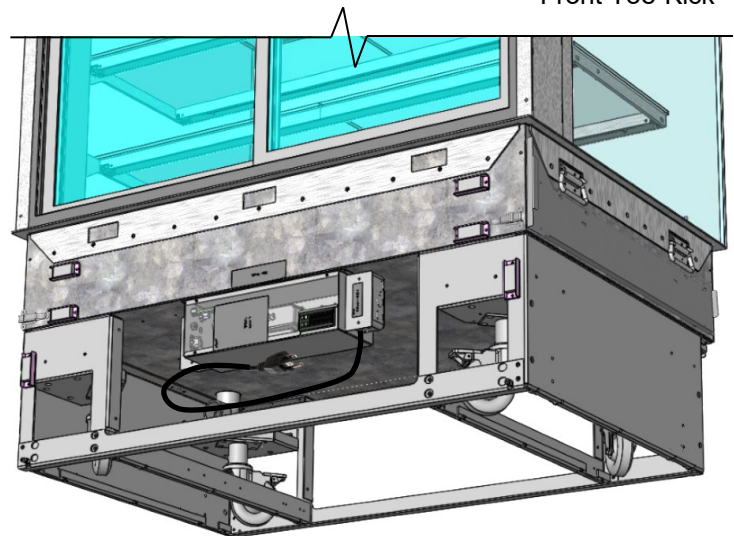
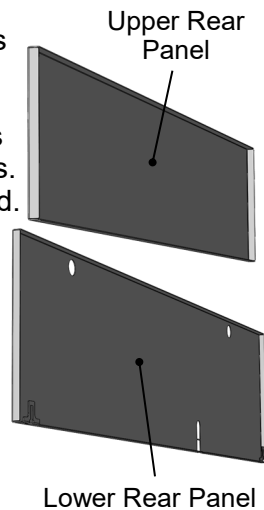
### **1. Remove Front Toe-Kick From Case**

- To prevent damage to case, remove front toe-kick from case before removing from pallet.
- Place front toe-kick in secure location while removing case from pallet.



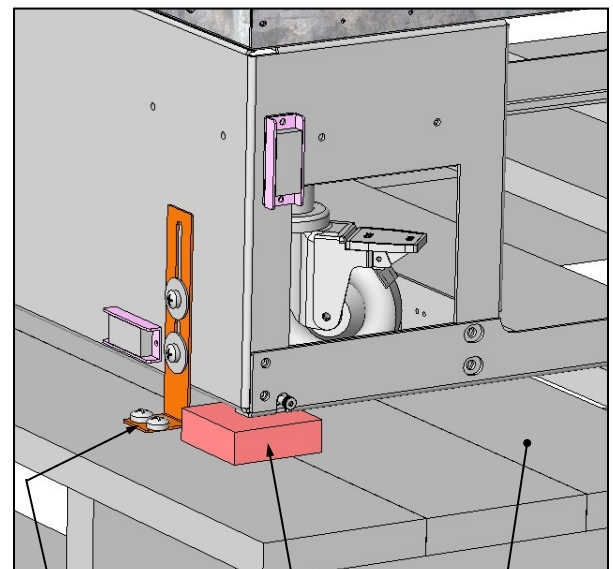
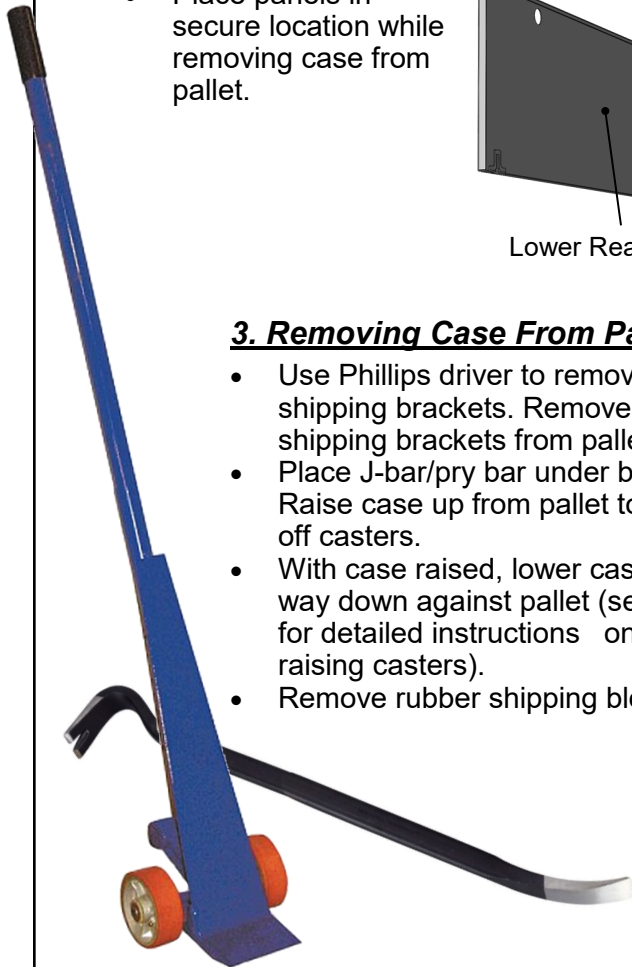
### **2. Remove Rear Panels From Case**

- To prevent damage to case, if upper panel and toe-kick is on the case, lift them **UP and OFF**.
- Upper and lower rear panels are held in place by magnets.
- No screw removal is required.
- Place panels in secure location while removing case from pallet.



### **3. Removing Case From Pallet**

- Use Phillips driver to remove screws from shipping brackets. Remove and discard shipping brackets from pallet.
- Place J-bar/pry bar under base frame. Raise case up from pallet to take weight off casters.
- With case raised, lower casters all the way down against pallet (see next step for detailed instructions on lowering or raising casters).
- Remove rubber shipping blocks.



Shipping Bracket

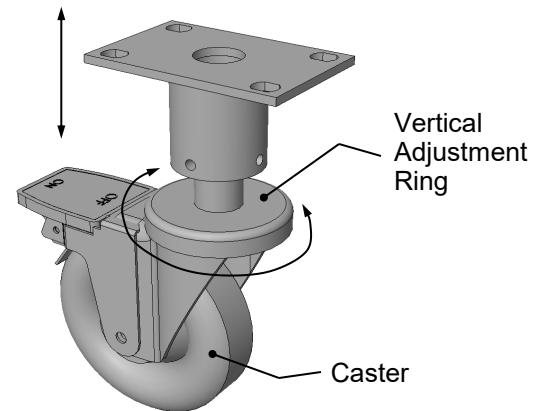
Rubber Shipping Block

Pallet



#### 4. Caster Height: Raising and Lowering

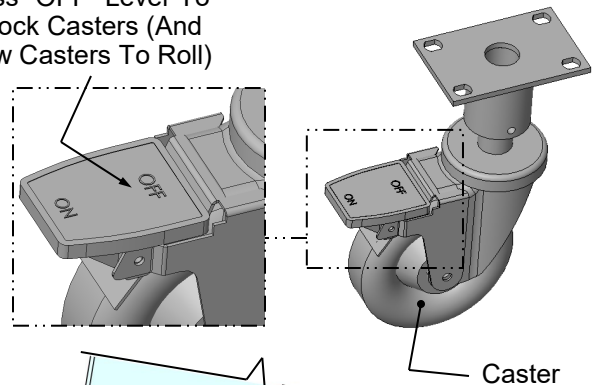
- Raise or lower casters (to adjust case height) by rotating casters' vertical adjustment rings.
  - Rotate vertical adjustment ring clockwise to lower caster (and increase height of case).
  - Rotate vertical adjustment ring counter-clockwise to raise caster (and decrease height of case).



#### 5. Caster Rolling Capability: Unlocking

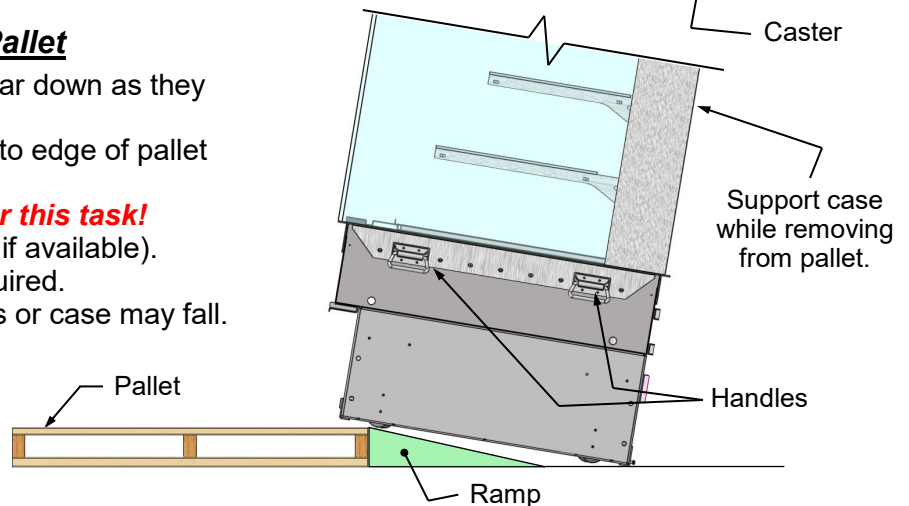
- Important! Case is shipped with caster mechanisms factory set at **ON** (locked) to prevent case from rolling.
- Unlock casters by pressing **OFF** on the caster mechanism.
- See illustration at right.

Press "OFF" Lever To Unlock Casters (And Allow Casters To Roll)



#### 6. Carefully Remove Case From Pallet

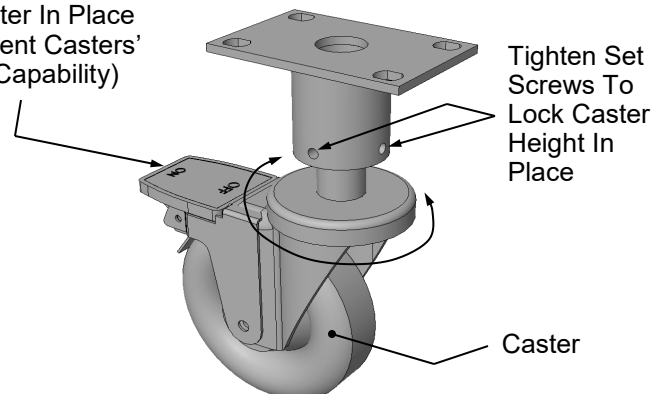
- Check that casters are lowered as far down as they will go (as instructed in step #4).
- Use handles to carefully slide case to edge of pallet (see illustration at right).
- **Caution! 4 people are required for this task!**
- Carefully lower to floor (using ramp if available).
- Slide pallet from under case as required.
- Maintain support of case at all times or case may fall.
- See illustration at right.



#### 7. Casters: Locking

- After case is at desired position (and height), use level to check that case is level and plumb.
- Readjust height as needed (as instructed in step #4).
- **Locking Height:** After proper height (and positioning) of case is attained, tighten the two (2) set screws to lock each caster's height in place.
- **Locking Movement:** Then, to prevent casters' rolling capability, lock casters by pressing ON atop the "ON" and "OFF" lever mechanism (shown at right). Case will now be secured at its new location.

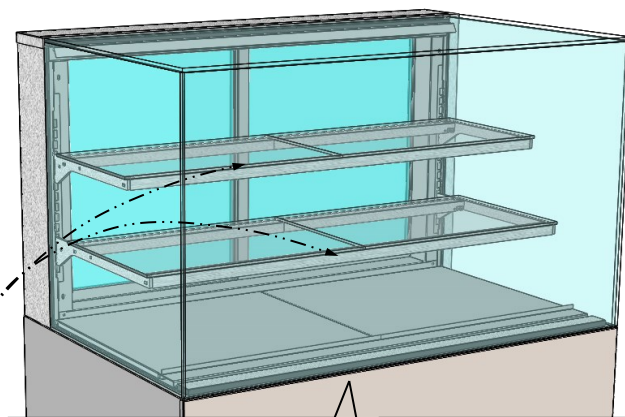
Press "ON" Lever To Lock Caster In Place (And Prevent Casters' Rolling Capability)



**8. Shelving Assembly Components**

- Check that glass shelving is in proper position before placing product in case
  - Shelves may be adjusted vertically or entirely removed from merchandiser.
  - Metal shelving brackets ARE NOT able to be angled. They are at a fixed 90° position.
  - There are 12 components comprising each shelf assembly:
- A. Right bracket (with hooks to attach to slots in upright)
  - B. LED light with magnets
  - C. Front shelf support rail (LED light attaches to its inner cavity via magnets)
  - D. Cover (rests atop front shelf support rail)
  - E. Left bracket (hooks to attach to slots in upright)
  - F. Nylon thumbscrews (4 per shelf) secure shelving during shipment. Note: Remove (using pliers, if necessary) and discard thumbscrews after case

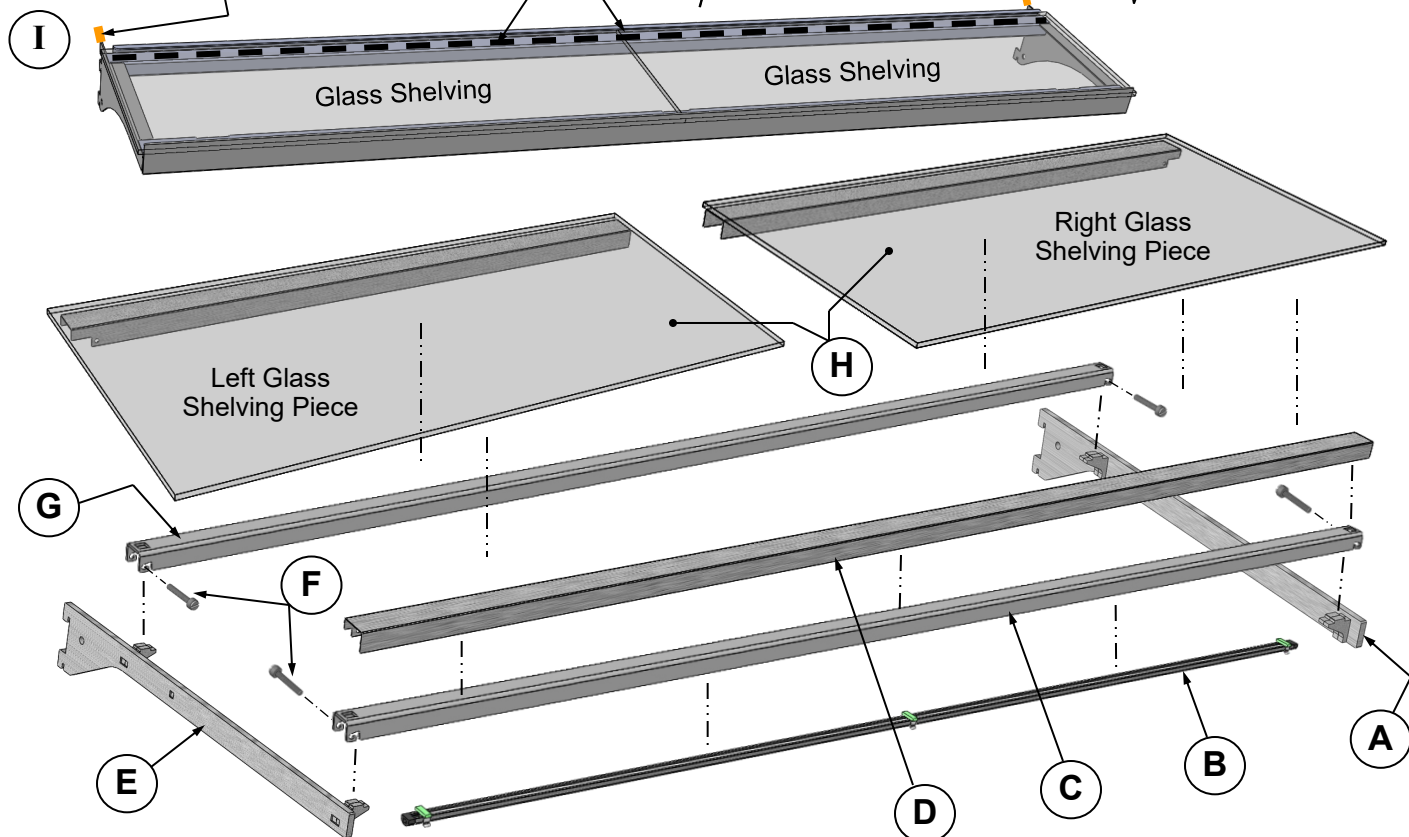
- is installed so shelves can be disassembled (to clean or service).
- G. Rear shelf support rail.
  - H. Left and right glass shelf/cover assemblies (glass is affixed to covers with 2-sided tape from factory). Caution! Glass pieces ARE NOT IDENTICAL! Notches on underside metal covers determine placement in case.
  - I. Nylon retainer clips (2 per shelf) secure brackets during shipment. Note: To adjust or remove shelves, you must remove retainers; pliers may be required to accomplish this task.



Nylon Retainer Clip (Typ.)



From Factory: Transparent 2-Sided Tape Holds Glass To Top Of Rear Shelf Support Rail



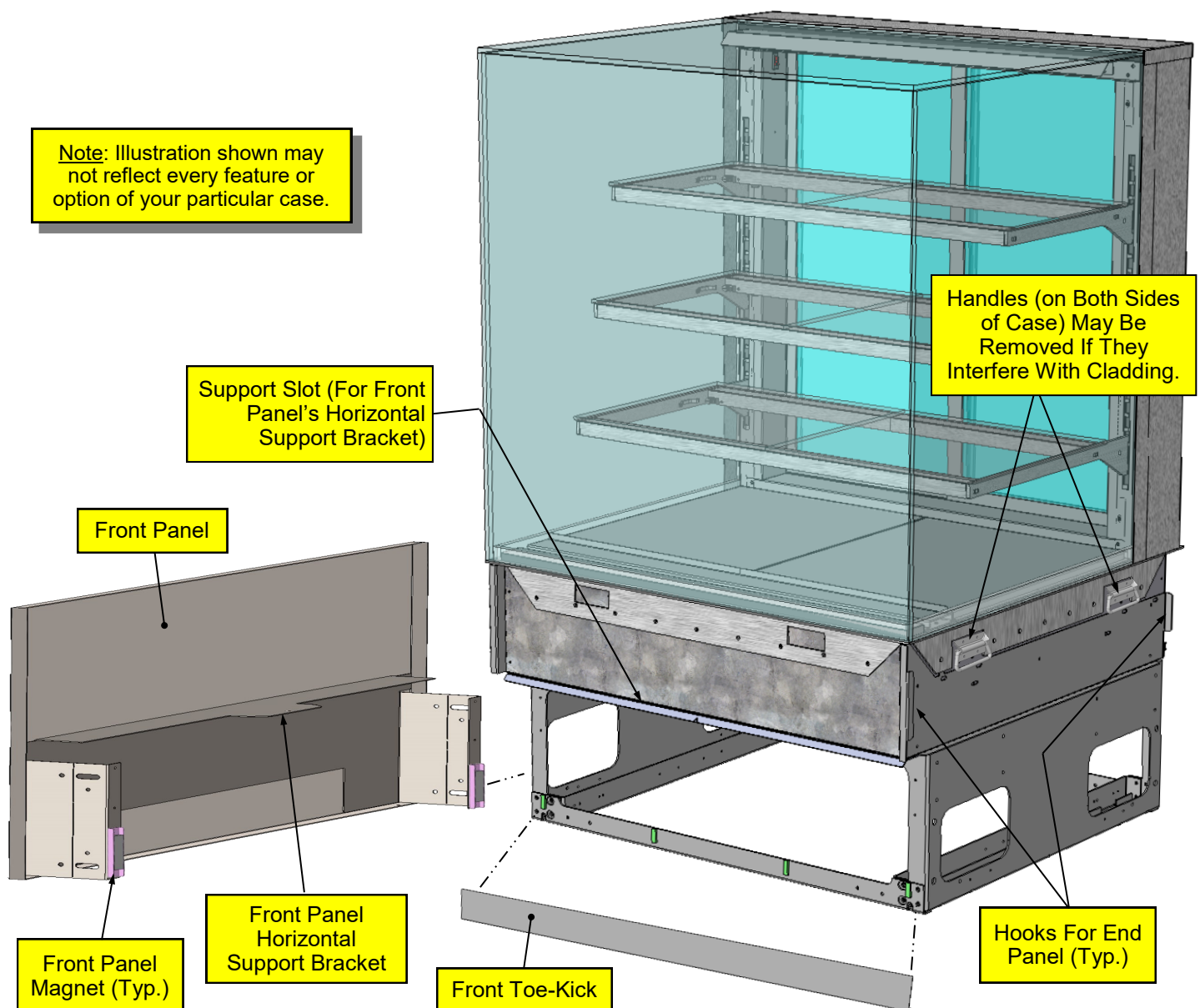
### 9. Attaching Components

- Carefully remove components from packaging.
- Attach components to case via magnets.
- Attach front toe-kick to case (via magnets).
- Slide center bracket (attached to front panel) atop case's front panel support bracket. Then, slide front panel into case until magnets attach to case in flange's cutout opening.
- Attach side cladding to magnets.
- Attach rear upper panel, rear lower panel and front toe-kick to case.

### 10. Handles On Sides of Case

- Handles may remain on case after it has been moved into position and cladding is attached.
- However, if handles interfere with the placement of cladding, they may be removed.

>> See Next Page For Instructions on **ATTACHING SIDE PANELS, REAR UPPER AND LOWER PANEL.**





## INSTALLATION, CONT'D: ATTACHING SIDE PANELS, REAR UPPER AND LOWER PANEL

### 11. Attaching Side Panels

- Attach side panels to case using slot/hook method.
- Use latches at case rear to firmly attach side panels to case.
- See illustrations below.

### 12. Attaching Rear Upper Panel

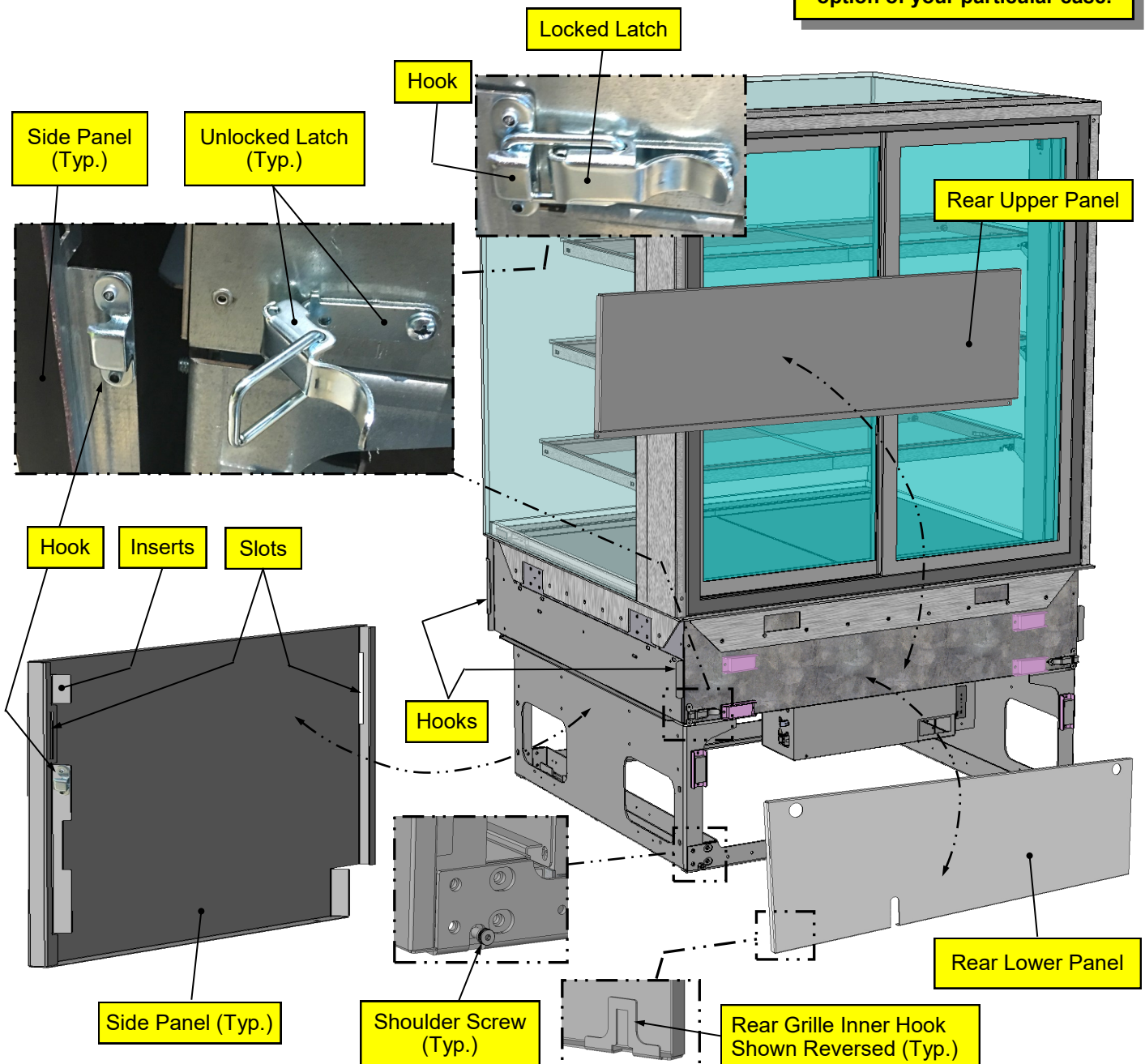
- Place rear upper panel onto care rear.
- Four (4) magnets will hold it firmly in place.
- See illustration below

### 13. Attaching Rear Lower Panel

- Use finger holes to place rear lower panel's inner hooks onto case rear's lower shoulder screws.
- Snap onto case's two (2) rear vertical magnets.

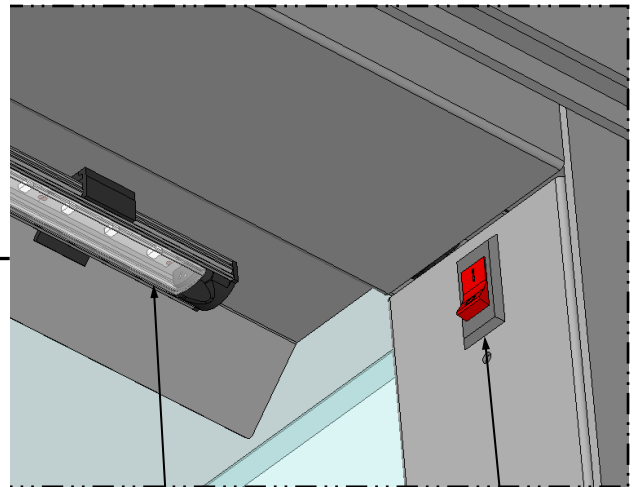
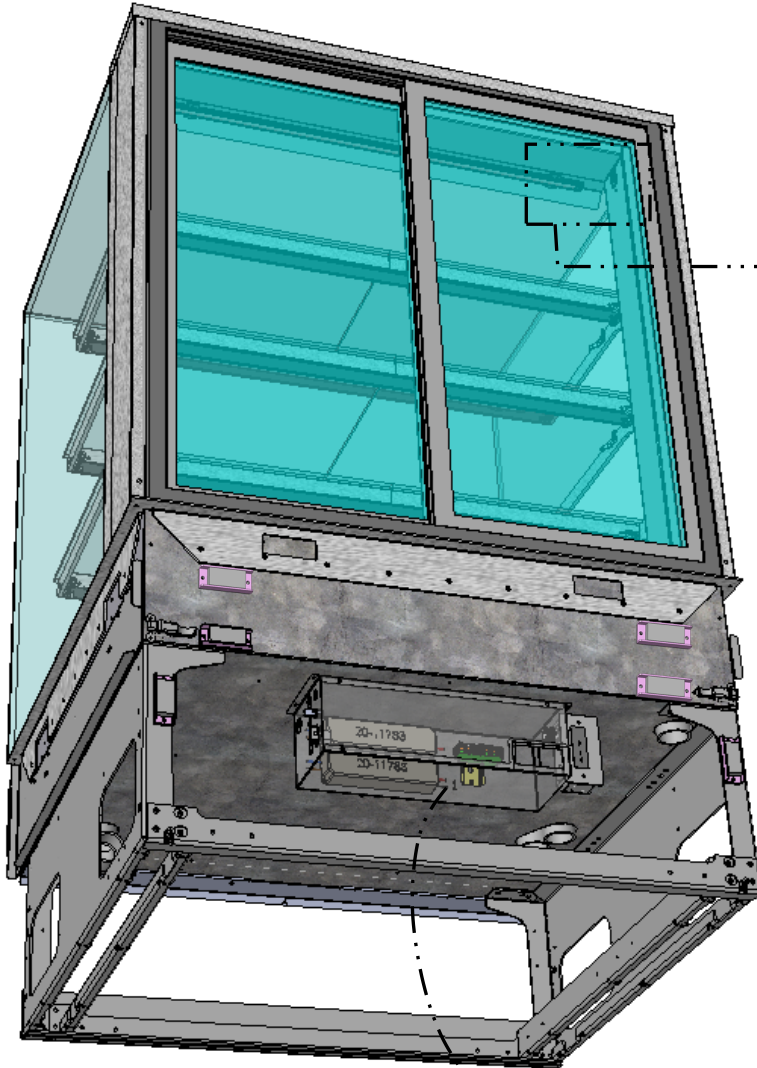
>> Note: Components may be removed in reverse order they were shown being attached on this sheet.

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



**14. Field Wire (Or Plug In) Case / Turn on LED Lights**

- Field-wired case or plug unit into outlet (if factory-supplied plug is present).
- Case will energize when properly field-wired (or plugged into outlet).
- Turn on LED light switch at front-left header.

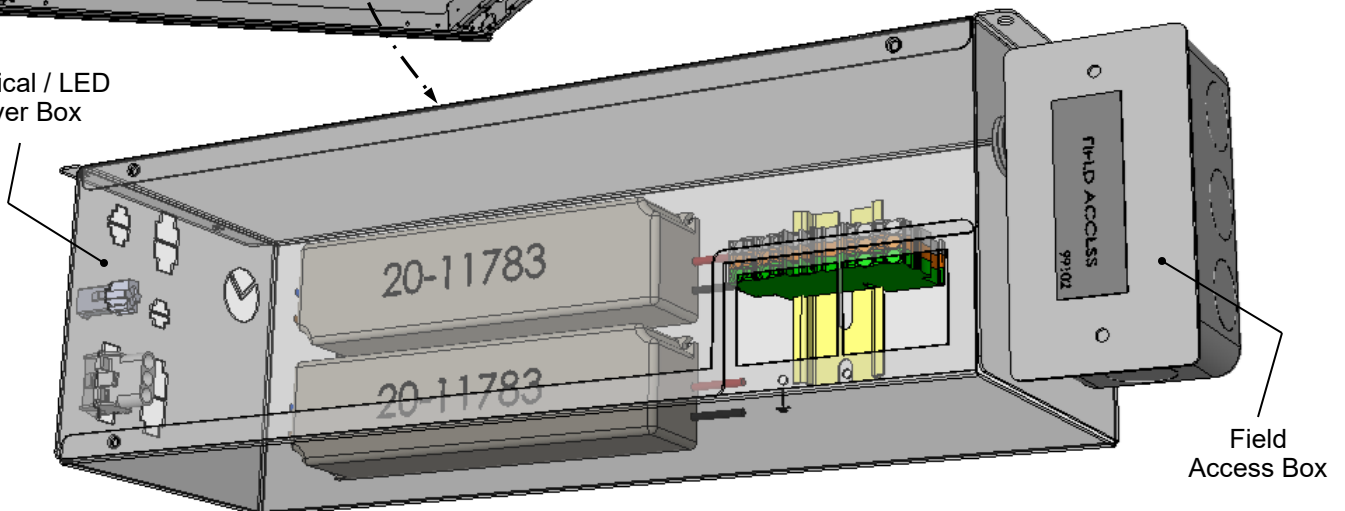


LED Light

Light Switch

**Note:** Illustrations shown may not reflect every feature or option of your particular case.

Electrical / LED Driver Box



Field Access Box

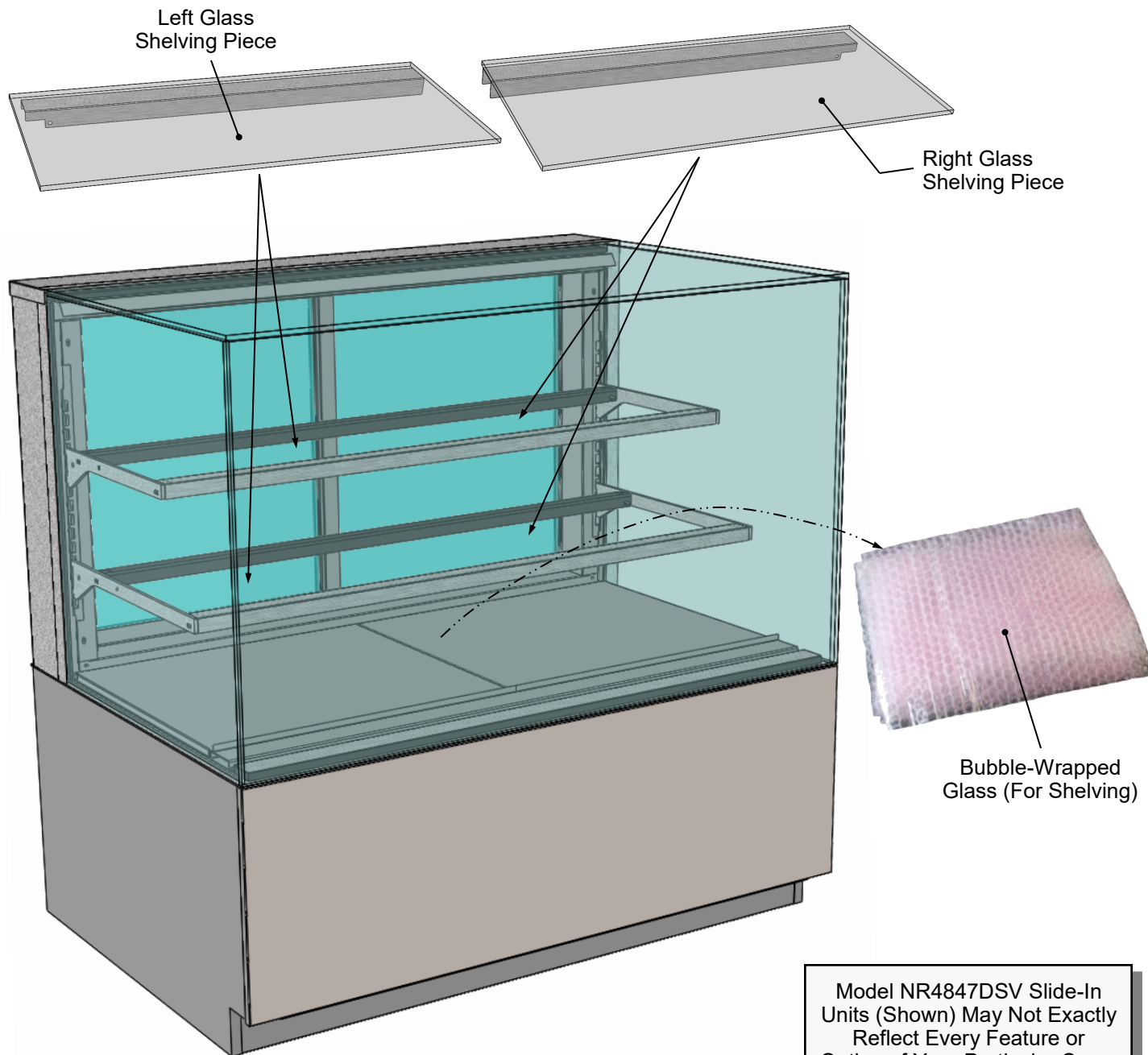
## INSTALLATION, CONT'D: BUBBLE-WRAPPED GLASS (FOR SHELVING)

### **15. Remove Bubble-Wrapped Glass (For Shelving) From Case**

- Carefully remove bubble-wrapped glass shelving pieces from case.
- See illustration below-right.

### **16. Remove Glass From Bubble-Wrap / Carefully Place Them On Shelves**

- Remove glass (for shelves) from its bubble-wrap.
- Place glass pieces on shelves.
- Caution! Glass pieces ARE NOT IDENTICAL! Notches on the underside metal covers determine placement in case.
- See illustrations below and on next page.



### Case Adjoinment Overview

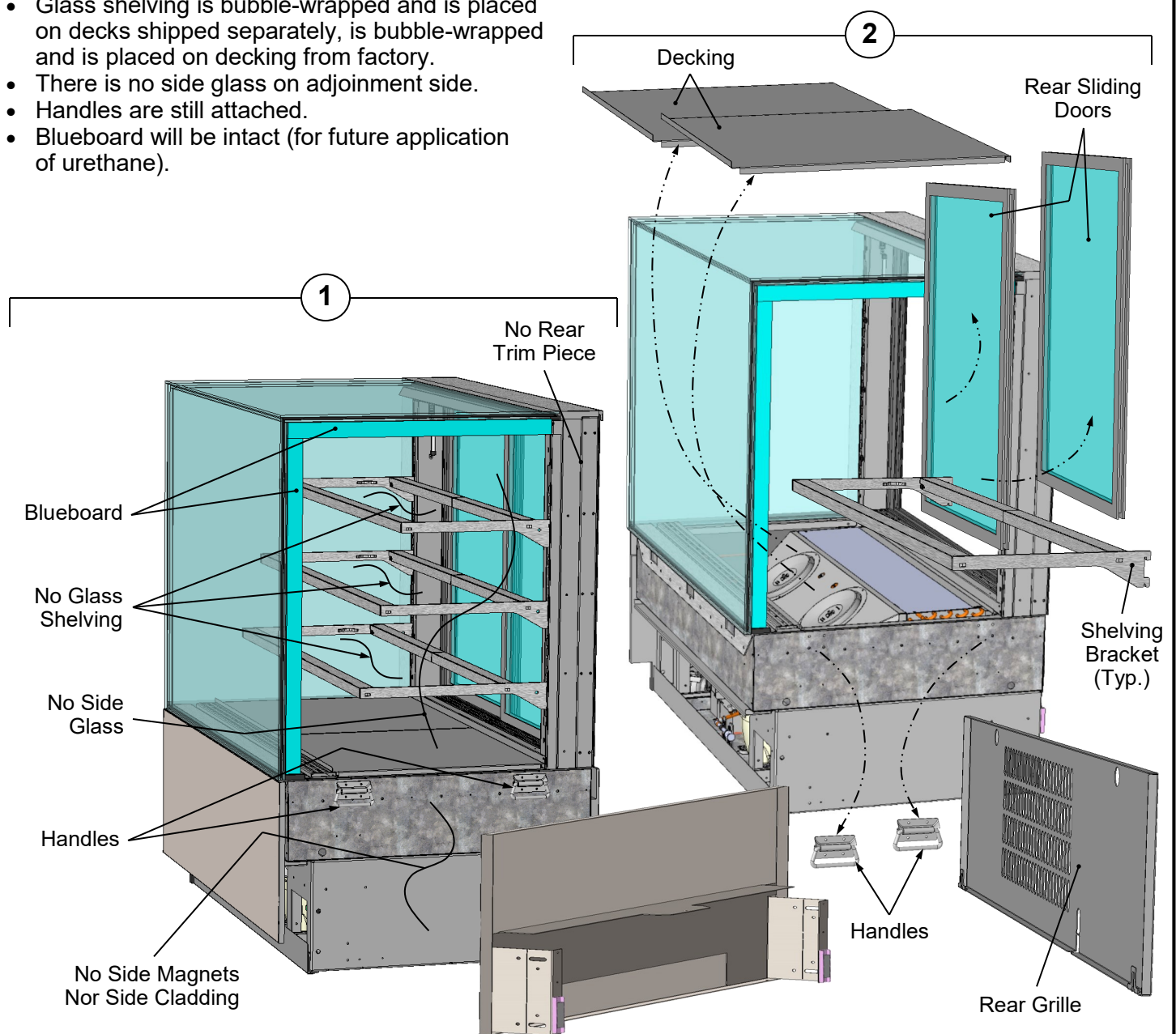
- >> Carefully follow these step-by-step case adjoinment instructions.
- >> Warranty is void if unapproved urethane/sealant is used in case adjoinment process.
- >> Move cases into position before beginning this adjoinment process.

### 1. Case Arrival From Factory

- Cases that are to be adjoined will NOT have side magnets nor side cladding on adjoinment side.
- There is no rear trim piece on adjoinment side.
- Glass shelving is bubble-wrapped and is placed on decks shipped separately, is bubble-wrapped and is placed on decking from factory.
- There is no side glass on adjoinment side.
- Handles are still attached.
- Blueboard will be intact (for future application of urethane).

### 2. Case Preparation Prior To Adjoinment

- Remove front panel.
- Remove rear grille.
- Remove rear sliding doors.
- Remove decking.
- Remove handles.
- Remove ALL shelving brackets.
- Note: Each shelving bracket has a different depth and must be returned to case accordingly!
- Store components in safe and secure location away from foot traffic.
- See below-right illustration.
- >> Adjoinment instructions continue on next page.





### 3. Industrial Grade Urethane Application

- Lay a generous, CONTINUOUS bead of SCC-provided urethane adhesive (as identified with — — — line pattern shown below).
- Lay a generous bead of industrial grade urethane adhesive at center of uprights (in non-visible areas).
- This urethane prevents refrigerated air from escaping between cases (causing condensation and reducing refrigeration efficiency) as well as preventing ants or other insects from entering case.
- See illustration below.

### 4. Case Adjoinment w/SCC-Provided Screws

- **Note:** Cases in this adjoinment have a wide range of surfaces (metal, foam board, blueboard, etc.).
- A variety of SCC-provided wood screws, bolts, washers and nuts are provided in adjoinment kit.
- Due to wide range of hole locations, you must access adjoinment points through rear door, rear grille, decking, front panel and rear grille areas.
- Firmly tighten all screws!

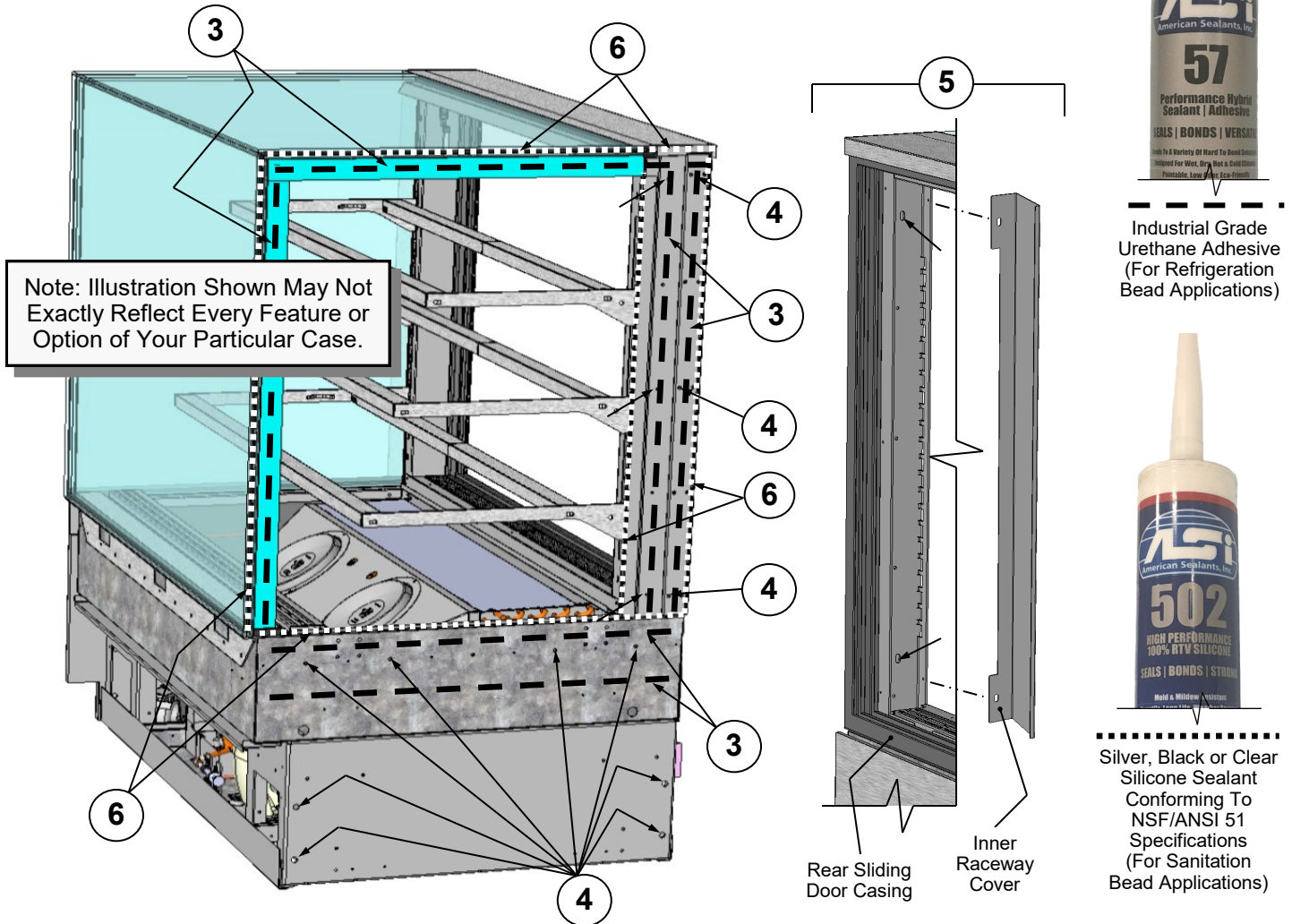
### 5. Inner Raceway Adjoinment

- Inner raceway cover must be removed (by removing 2 screws).
- Use 1/4-20 bolts, nuts and washers to attach inner raceway upright to adjoining case.
- Then, reattach inner raceway cover .

### 6. Silicone Sealant Application

- After case is adjoined, apply a generous, CONTINUOUS bead of silicone sealant (as identified with ..... line pattern shown below) at both inner and outer adjoinment seams.
- When properly applied, this sealant will prevent water from seeping between cases (into the case or to the floor) as well as prevent crumbs or other residue from entering between case seams.

>> Adjoinment instructions continue on next page.





### 7. C-Bracket Attachment

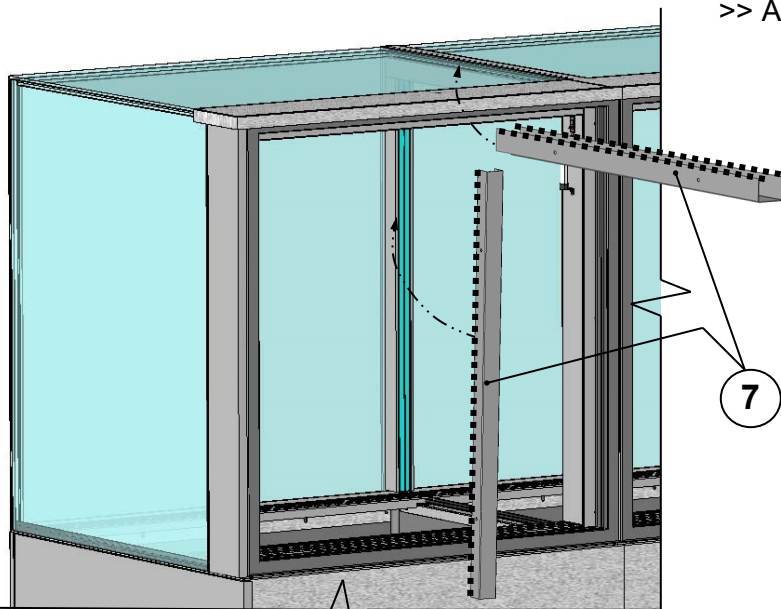
- After cases are attached, place vertical and horizontal C-brackets at inner case.
- Use SCC-provided screws to attach to Celtec/blueboard. Two holes at each side of both C-brackets are provided for screws.
- After C-brackets are adjoined, apply a generous, CONTINUOUS bead of silicone sealant (as identified with ..... line pattern shown).

- **Note:** Illustration below shows silicone bead applied at required spot on C-brackets PRIOR to attachment to case for illustrative purposes only.

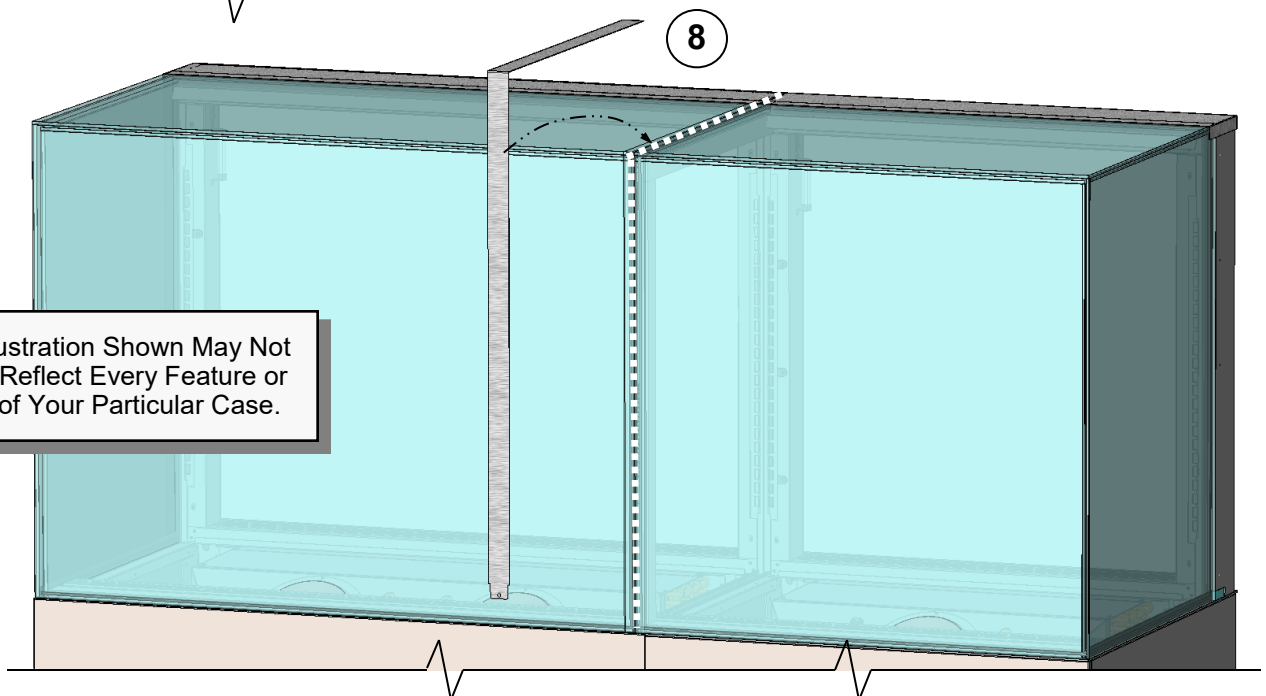
### 8. Middle Trim Attachment

- After placing generous, CONTINUOUS bead of silicone sealant (as identified with ..... line pattern shown) middle trim may be attached to case.
- Apply a generous bead of silicone at underside of trim piece and attach at seam.

>> Adjoinment instructions continue on next page.



Silver, Black or Clear  
Silicone Sealant  
Conforming To  
NSF/ANSI 51  
Specifications  
(For Sanitation  
Bead Applications)



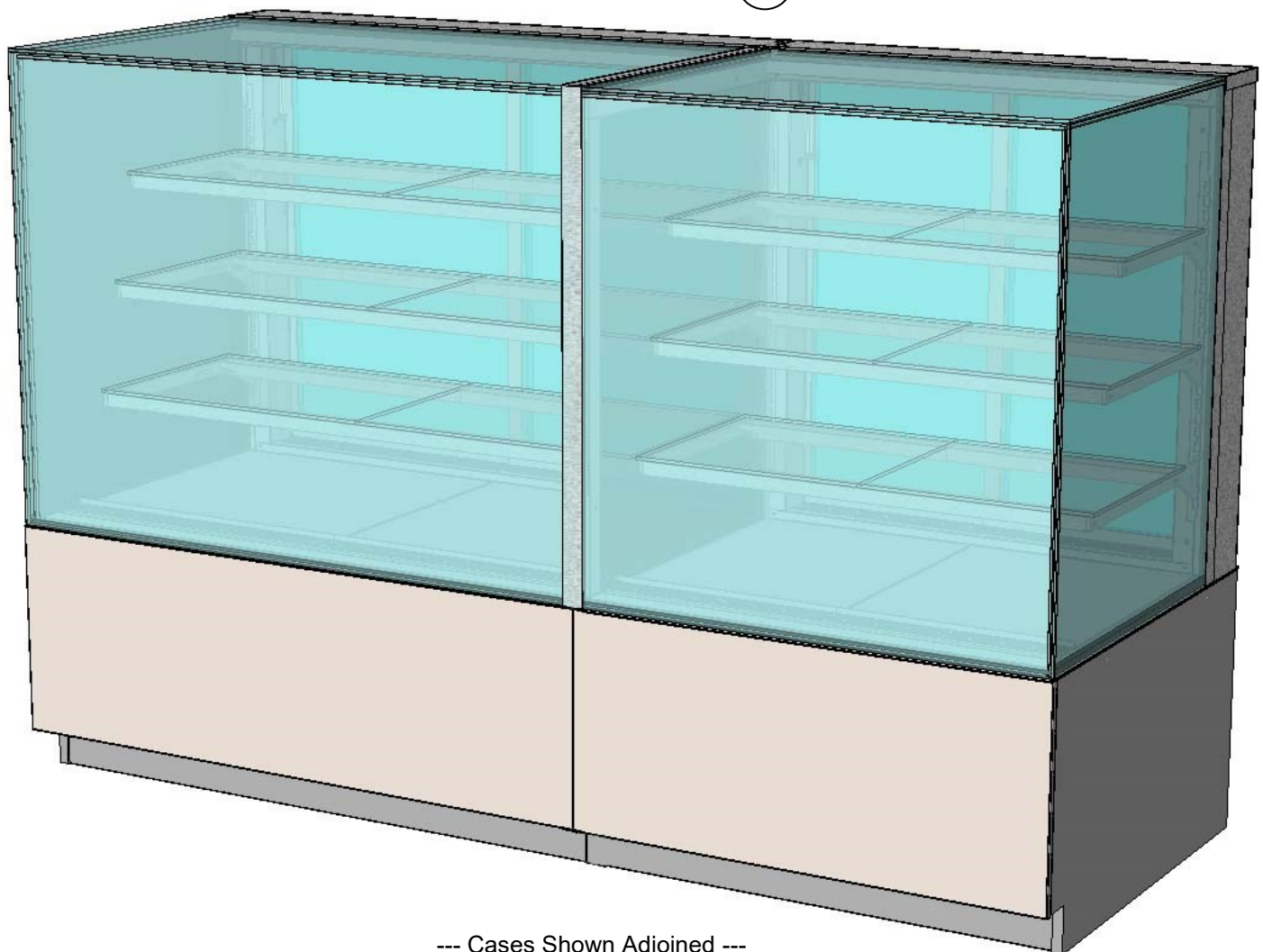
Note: Illustration Shown May Not Exactly Reflect Every Feature or Option of Your Particular Case.

**9. Case Adjoinment Complete / Component Replacement**

- After case adjoinment is complete, replace decking, shelving, front panel, rear grille, and rear sliding doors in reverse order they were removed.
- Glass may now be removed from protective bubble-wrap and placed on shelving brackets.
- Discard handles that had been removed.
- See illustration below.

Note: Illustration Shown May Not Exactly Reflect Every Feature or Option of Your Particular Case.

9

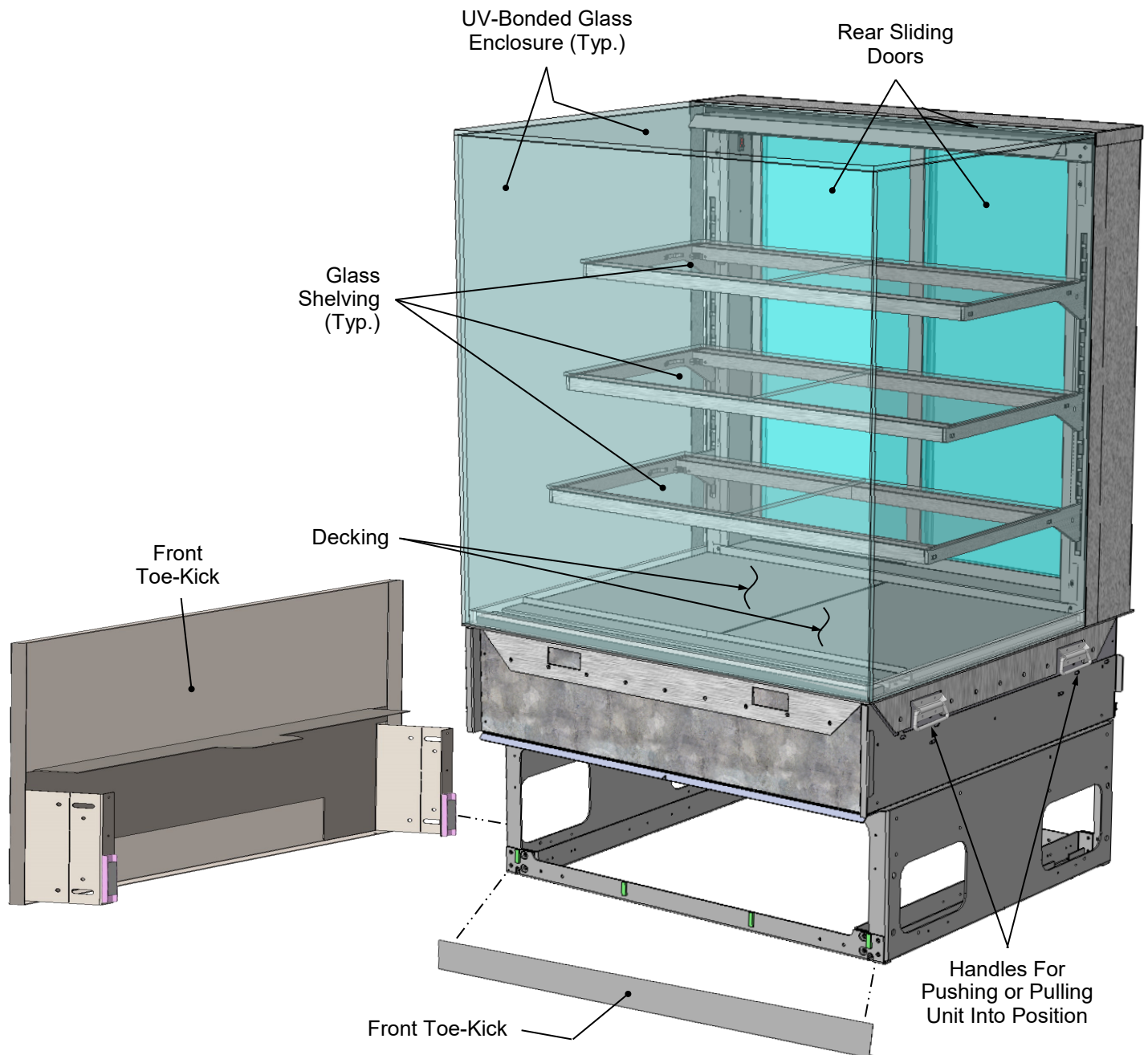


--- Cases Shown Adjoined ---

**1. Front View Of Free Standing, Service Merchandisers**

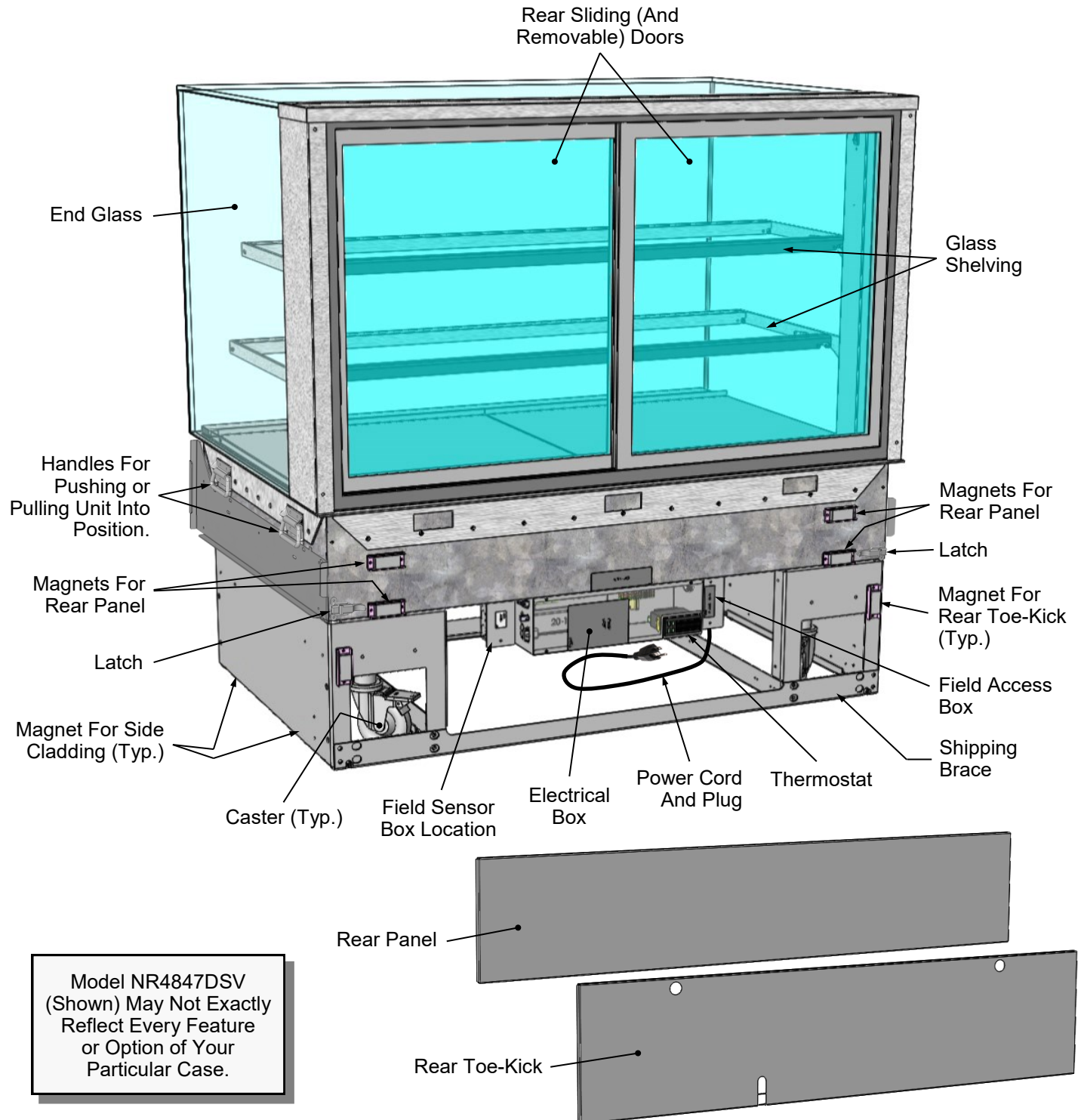
- Sample free standing model is illustrated below.
- See **INSTALLATION, CONT'D: MOVING/POSITIONING CASE INTO POSITION / ATTACHING COMPONENTS** section in manual for view of front panel, side cladding, rear toe-kick, back panel, etc.
- See next page for rear view of merchandiser.

Model NR3635DSV (Shown) May Not Exactly Reflect Every Feature or Option of Your Particular Case.



**2. Rear View Of Free Standing, Service Merchandisers**

- Sample free-standing model is illustrated below.
- See ***INSTALLATION, CONT'D: MOVING/POSITIONING CASE INTO POSITION / ATTACHING COMPONENTS*** section in manual for view of front panel, side cladding, front toe-kick, front panel, etc.
- See previous page for front view of merchandiser.





### 3. Power Cord and Plug

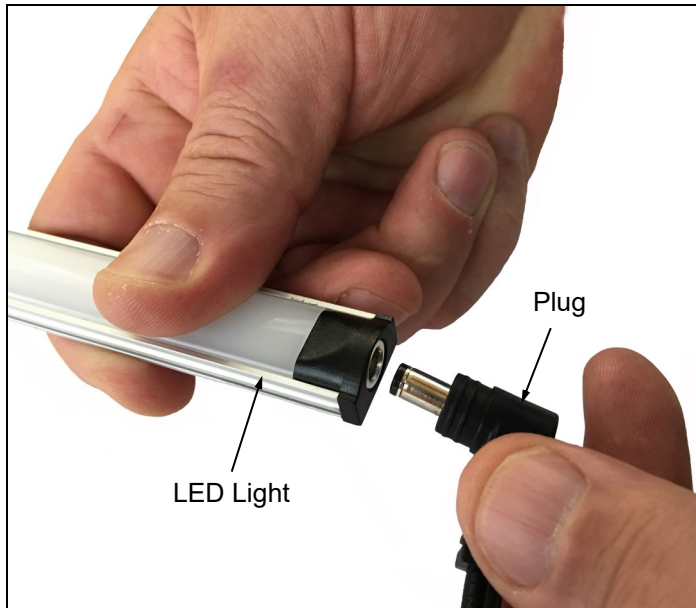
- Power cord and plug (for LED lights) is at case rear (shown below).
- Caution! You must plugged in an approved outlet!

### 4. LED Light Switch Locations

- Light switch is in column cover (accessible by sliding open door at case rear).
- See illustrations below-right.

### 5. LED Lights

- LED lights are located at both header and shelving of case (as shown below).
- 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.



LED Light

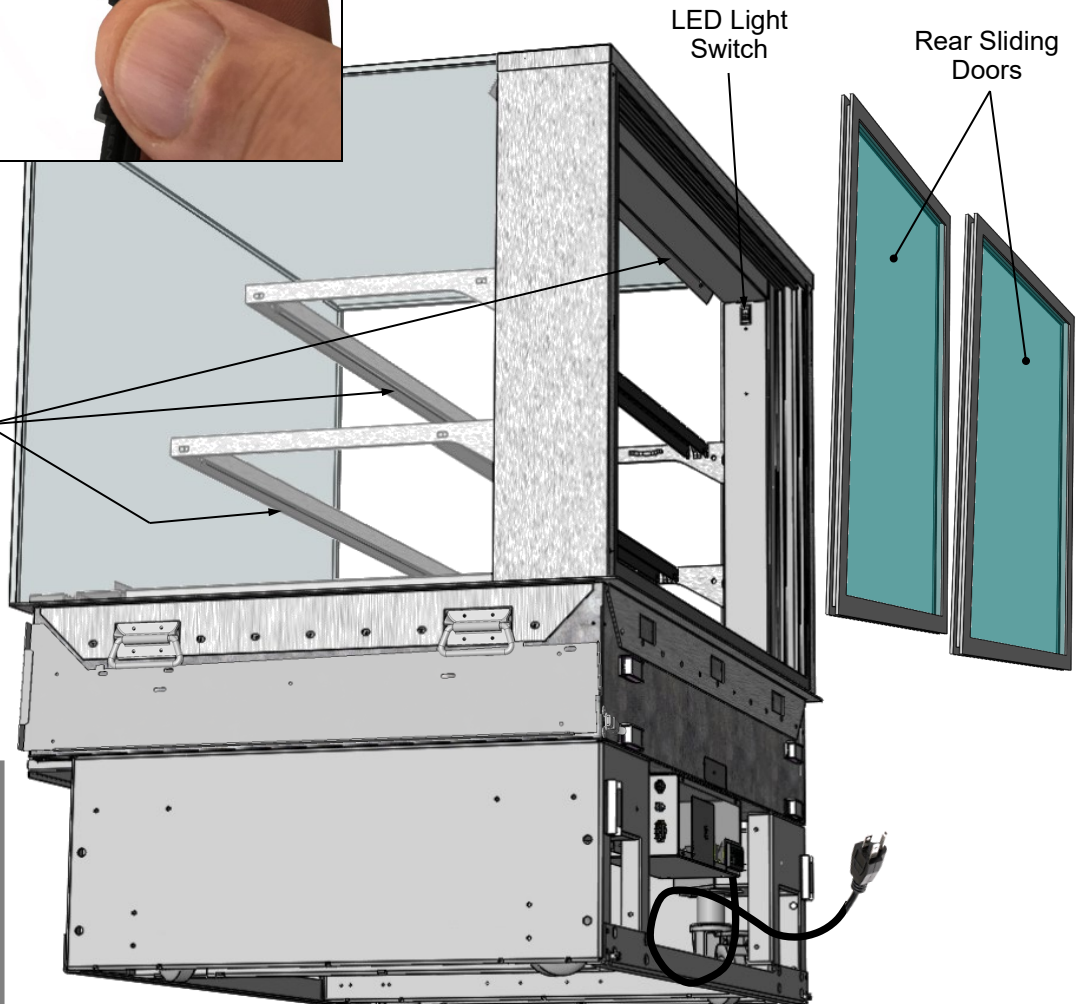
Plug

LED Lights In  
Shelving And  
Header

LED Light  
Switch

Rear Sliding  
Doors

Model NR4847DSV  
Unit Is Shown Partially  
Disassembled For  
Illustrative Purposes.  
It May Not Reflect Every  
Feature or Option of  
Your Particular Case.

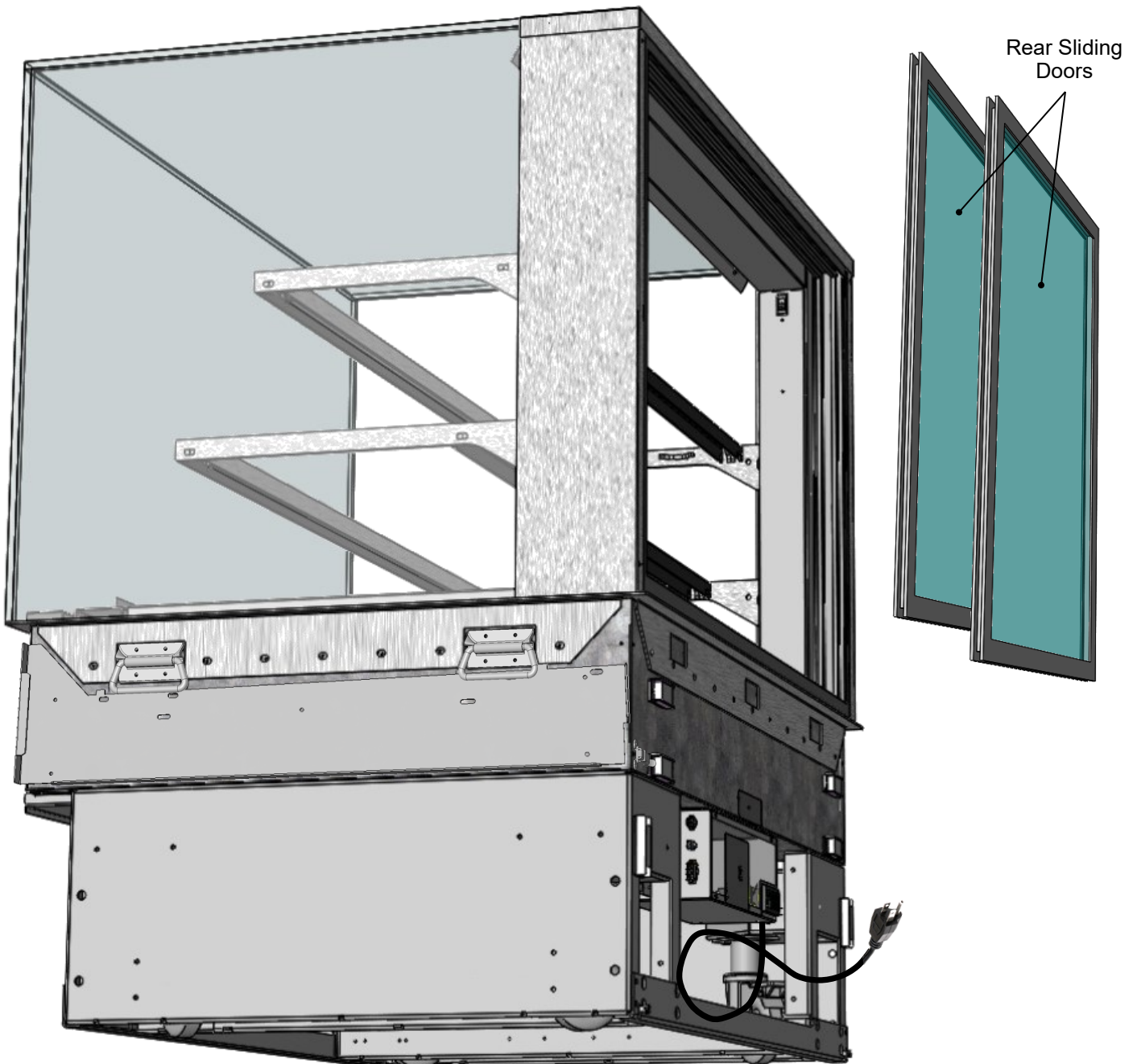




**6. Rear Sliding Door Removal / Replacement**

- To remove rear sliding doors, move doors toward center of case.
- Individually lift each door up toward the top of the case; pivot the bottom of the door out.
- Return doors to case in reverse order they were removed.

Model NR4847DSV Unit  
Is Shown Partially  
Disassembled For  
Illustrative Purposes. It  
May Not Reflect Every  
Feature or Option of Your  
Particular Case.

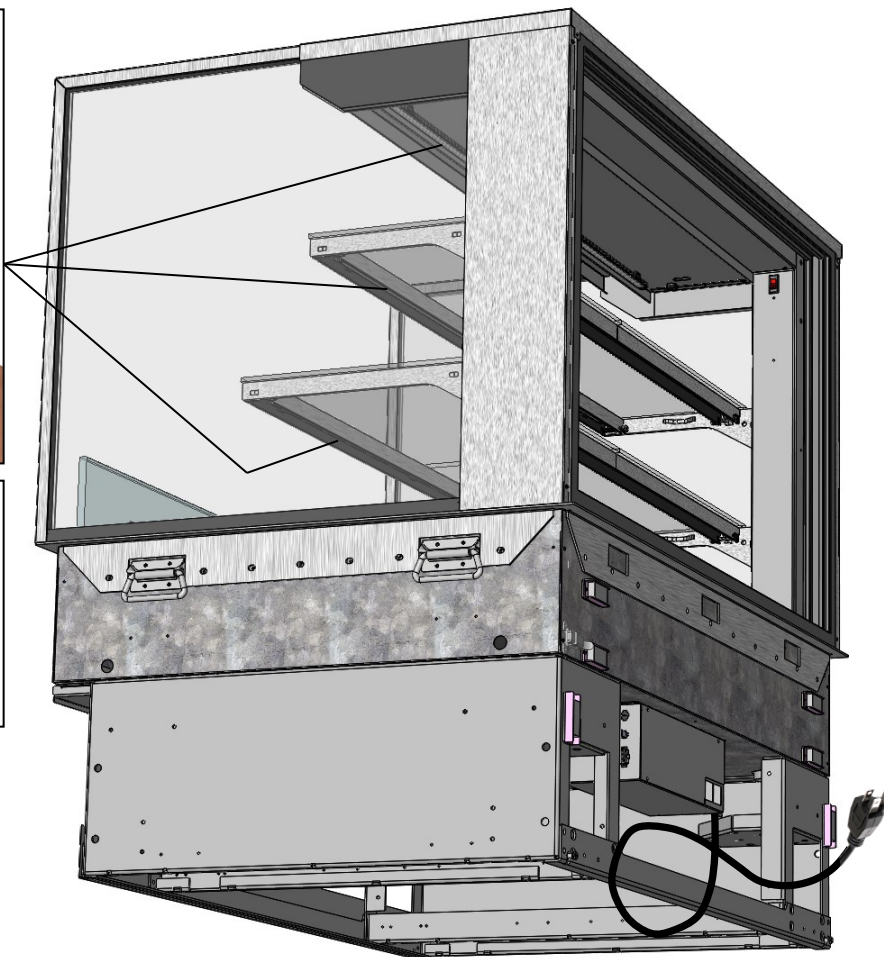
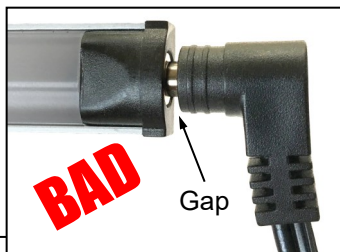
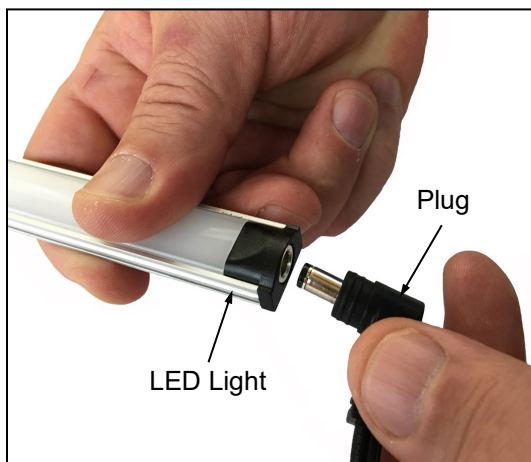


**CLEANING SCHEDULE (TO BE PERFORMED BY STORE PERSONNEL)**

FREQUENCY	INSTRUCTIONS
Daily	<b><u>Glass Surfaces:</u></b> Clean side glass and shelves with household or commercial glass cleaner.
Daily	<b><u>Rear Sliding Door Exterior Glass:</u></b> Clean with household or commercial glass cleaner. Clean out rear door track with moist cloth.
Daily	<b><u>End Panels, Front Panel, Toe-Kick, etc.:</u></b> Wipe off all surfaces with warm water and mild soap solution and non-abrasive cloth.
Daily	<b><u>Decks:</u></b> Wipe off decks with moist cloth dipped in mild soap and water solution.
Daily	<p><b><u>Stainless Steel Surfaces:</u></b></p> <ul style="list-style-type: none"> <li>• Wash with a solution of hand dishwashing liquid detergent and water, or a solution of baking soda and water. Rinse and polish dry with paper towel or soft cloth.</li> <li>• Never use scouring powders or steel wool as they will scratch stainless steel.</li> <li>• Brighten by polishing with a cloth dipped in vinegar or in ammonia; sprinkle baking soda on sponge and rub gently; rinse. Polish dry with paper towel.</li> <li>• Remove streaks or heat stains from stainless steel by rubbing with club soda.</li> </ul>
Quarterly	<p><b><u>Under Case Cleaning:</u></b></p> <p><b><u>A. Rolling Case To New Location:</u></b></p> <ul style="list-style-type: none"> <li>• If case is NOT hard wired, it may be rolled forward or backward to allow access to case underside (depending upon its store placement).</li> <li>• Use vacuum with brush extension or broom and dust pan to remove all dust, dirt, food particles or residue.</li> <li>• Roll case back into its previous location after cleaning is complete.</li> </ul> <p><b><u>B. Case Component Removal:</u></b></p> <ul style="list-style-type: none"> <li>• Whether case is hard wired or not, case components may be removed to allow cleaning under case.</li> <li>• Case components are held in place with magnets and are removable <u>without tools</u>.</li> <li>• Remove side cladding, front panel, front toe-kick or lower rear panel by lifting up and off case. See <b><i>INSTALLATION, CONT'D: ATTACH COMPONENTS (FRONT &amp; REAR PANELS, CLADDING, ETC.)</i></b> section in manual for illustrations.</li> <li>• Use vacuum with brush extension to remove all dust, dirt, food particles or residue at underside of case.</li> <li>• Replace components when cleaning process is complete.</li> </ul>

**TROUBLESHOOTING (TO BE PERFORMED BY STORE PERSONNEL)**

CONDITION	TROUBLESHOOTING
<b>Case Lights Not Working</b>	Check that light switch is in the <i>ON</i> position. <ul style="list-style-type: none"> <li>• See <b>CASE DESIGN, CONT'D: POWER CORD &amp; PLUG / LED LIGHT SWITCH LOCATIONS / LED LIGHTS</b> section in manual for switch location (regardless of case design).</li> </ul>
	If case is not hard-wired, check that power cord is properly connected to wall outlet.
	Check that ALL of the light plugs are properly connected to the LED light. <ul style="list-style-type: none"> <li>• Plug must be inserted ALL THE WAY into the LED light orifice (with no gap).</li> <li>• See illustrations below-left.</li> </ul>
	Power may not be reaching the case. <ul style="list-style-type: none"> <li>• Contact store management to have trained service provider perform troubleshooting.</li> <li>• Troubleshooting to be performed by trained service providers only is on next page.</li> </ul>
	If case light still do not come on, it may need to be replaced. <ul style="list-style-type: none"> <li>• Contact Structural Concepts' Technical Service Department for replacement light (see <b>TECHNICAL SERVICE</b> section of this manual for contact information).</li> <li>• To replace, disconnect plug from existing LED light. Disconnect LED light from its brackets. Replace with new LED light. Insert plug ALL THE WAY into LED light orifice.</li> </ul>



**TROUBLESHOOTING (TO BE PERFORMED BY TRAINED SERVICE PROVIDERS ONLY)**


<b>CONDITION</b>	<b>TROUBLESHOOTING</b>
<b>Case Lights Are Not Working</b>	See <b><i>TROUBLESHOOTING (TO BE PERFORMED BY STORE PERSONNEL)</i></b> section in manual (previous sheet) for most common troubleshooting solutions.
	Check power. <ul style="list-style-type: none"><li>• If power is not supplied to the case, facility may have faulty power distribution.</li><li>• If power is supplied to the case but lights are not energized, case's power supply may be faulty.</li></ul>

**Serial Label Location & Information Listed / Technical Information & Service**

- Serial labels are affixed at a wide range of places (on the header, at case rear, behind panels or toe-kicks, on electrical boxes, etc.).
- Serial labels contain electrical 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. 65  
CERTIFIED TO CAN/CSA  
STD C22.2 NO 120

120 VOLTS      60HZ  
FOR PARTS OR SERVICE CALL  
STRUCTURAL CONCEPTS  
AT 1-800-433-9489

**Reveal**

MODEL NRS3648RXV-SAMPLE  
SERIAL NO. 12345X30DZ098765

SINGLE PHASE 1.84 AMPS



SCAN FOR PRODUCT LITERATURE  
Sample QR Code

SAMPLE ONLY

SAMPLE ONLY

SAMPLE ONLY

SAMPLE ONLY

SAMPLE ONLY

SAMPLE ONLY

SAMPLE ONLY

SAMPLE ONLY

SAMPLE ONLY

SAMPLE ONLY

SAMPLE ONLY

--- Sample Serial Label For Ambient/Heated Cases ---



**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.

