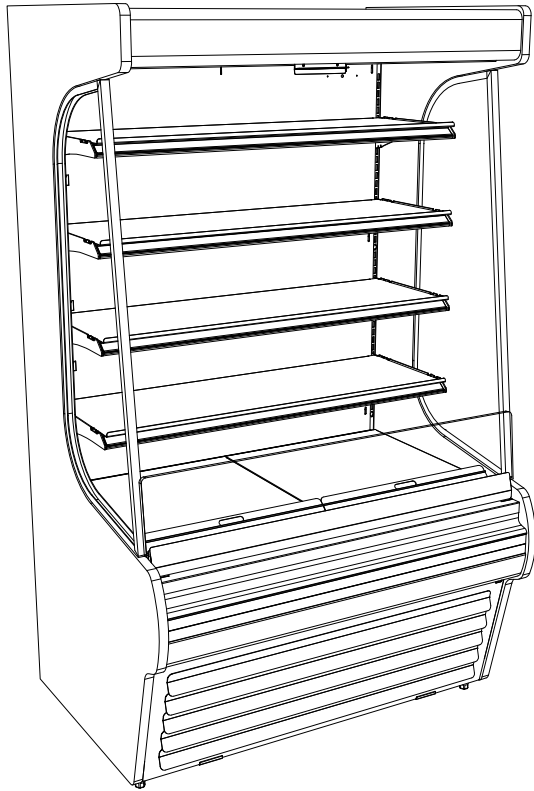




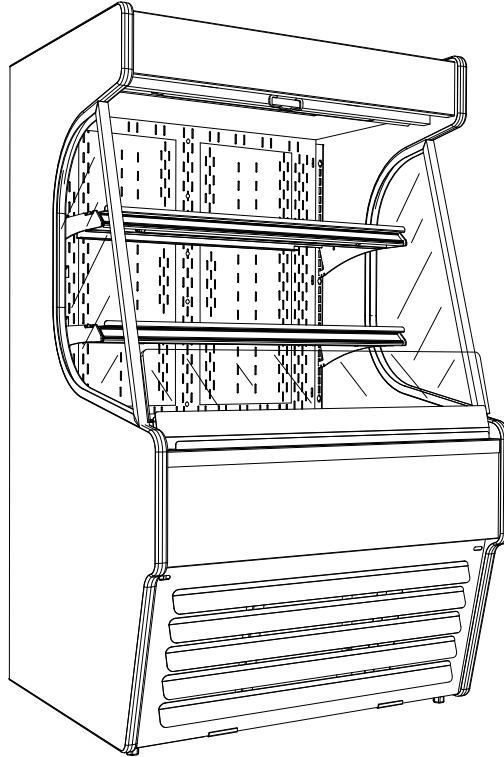
INSTALLATION AND OPERATING MANUAL

PN 55077

REFRIGERATED SELF-SERVICE MERCHANDISER

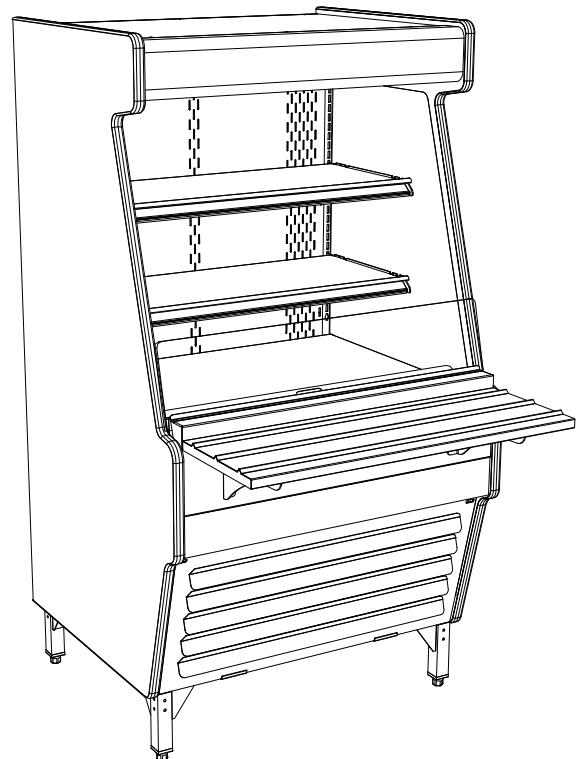


Model CO4778R Shown Above



Model CO3660R
(With Optional Rear
Doors Outline Shown
At Rear Plenum)
for Illustrative
Purposes Only

Model CO3660RT
(with Optional Tray
Slide System)



CO3660R & CO3660RT.....	36 1/4" L* x 38 1/4" D~ x 60" H
CO3678R.....	36 1/4" L* x 38 1/4" D~ x 78" H
CO4760R & CO4760RT.....	47 1/4" L* x 38 1/4" D~ x 60" H
CO4778R.....	47 1/4" L* x 38 1/4" D~ x 78" H
CO5960R & CO5960RT.....	59 1/4" L* x 38 1/4" D~ x 60" H
CO5978R.....	59 1/4" L* x 38 1/4" D~ x 78" H
CO7160R & CO7160RT.....	71 1/4" L* x 38 1/4" D~ x 60" H
CO7178R.....	71 1/4" L* x 38 1/4" D~ x 60" H
CO7178R.T2.....	71 1/4" L* x 38 1/4" D~ x 78" H

*Includes end panels.

~Depth is approx. 34 3/4" without removable spacers (at case rear)



Structural
Concepts

888 E. Porter Road · Muskegon, MI 49441 Phone: 231.798.8888 Fax: 231.798.4960 www.structuralconcepts.com

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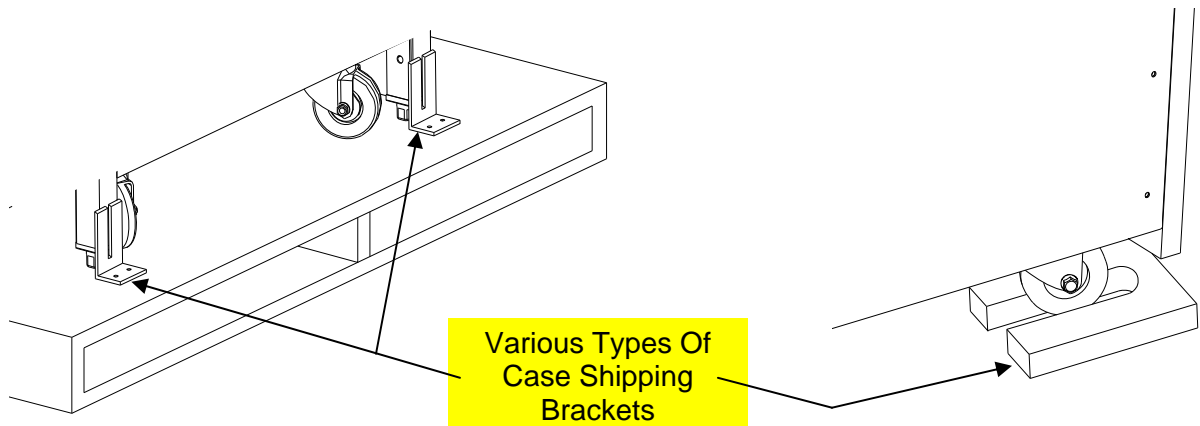
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SHIPMENT CONDITION / DAMAGE DISCOVERED DURING DELIVERY or UNCRATING / SHORTAGES

CASE REMOVAL FROM SKID (LEVELERS OR CASTERS)

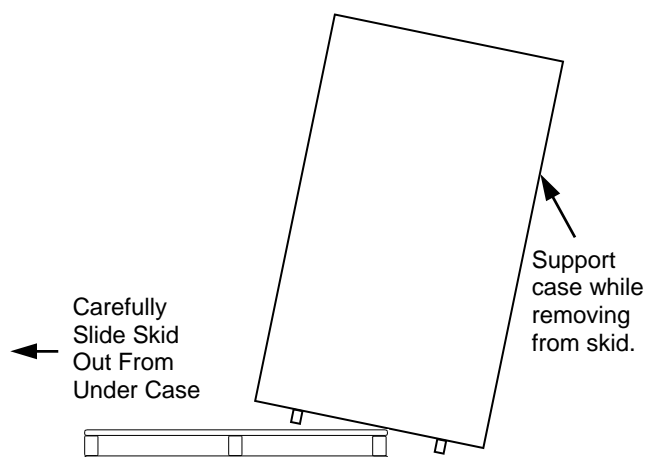
1. Removing Case Shipping Brackets That Are Attached To Skid

- Remove screws holding Case Shipping Brackets to skid.
- Remove Case Shipping Brackets from Skid.
- See illustrations below. Note: Shipping Brackets will vary in size, shape, material and location depending upon case type and model.



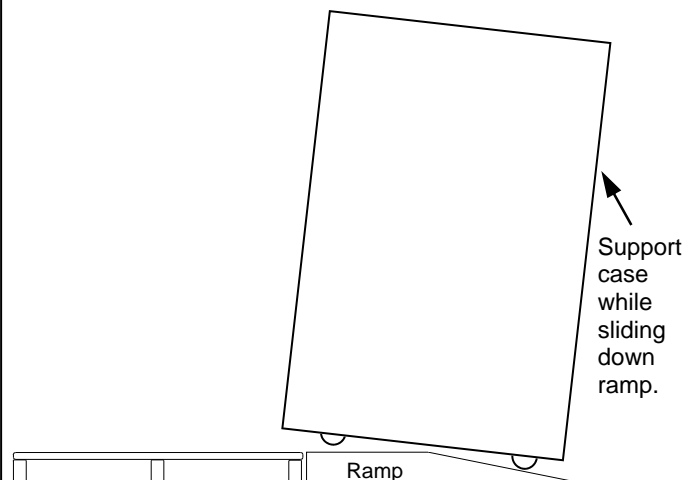
2. Remove Case (With Levelers) From Skid

- To prevent damage, support case while sliding it toward edge of skid.
- When case is at edge of skid, carefully lower to floor (so two levelers rest on floor).
- Carefully slide skid out from under case.
- After removal of case from skid, place into position.
- Note: Illustration below reflects general outline of sample case and does not reflect any particular model or options).



3. Remove Case (With Casters) From Skid

- A. Place ramp up against skid (to allow case to smoothly slide off from skid).
- B. Maintain support of case at all times or center of gravity may cause case to fall.
- C. Unlock Casters. Slide unit to rear of skid. Slide down ramp and off from skid.
- Note: Illustrations reflect general outline of sample case and may not reflect your particular model or options).



Merchandise Set-Up

- Remove the appropriate lower grille, (rear grille if unit has front serviceable refrigeration, and the front grille if the units refrigeration is serviceable from the rear).
- Insure that the manufacture provided evaporator pan is installed under the PVC condensate drain trap.
- Insure evaporator pan is plugged into the receptacle inside base.
- Reinstall the grille by inserting screws into locations provided.

Electrical Set-Up

- **With Power Cord:**
 - *For your safety, equipment is furnished with a properly grounded cord connector. Do not attempt to defeat the grounded connector.*
- Plug cord into certified electrical outlet with ground.
- **Without Power Cord:**

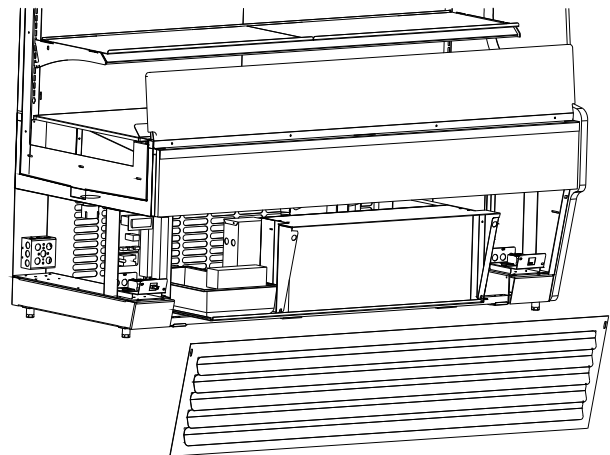
Note: Servicing to be accomplished by a certified electrical contractor.

 - **Electrical Leads**
 - Remove 4 x 4 cover from the left lower rear of the unit.

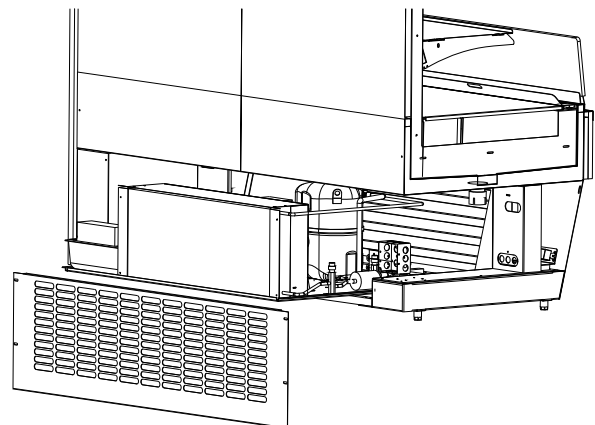
Electrical leads connections are provided in the junction box.

Remote Refrigeration System. Note: The Servicing of this unit is to be accomplished by a refrigeration / electrical contractor.

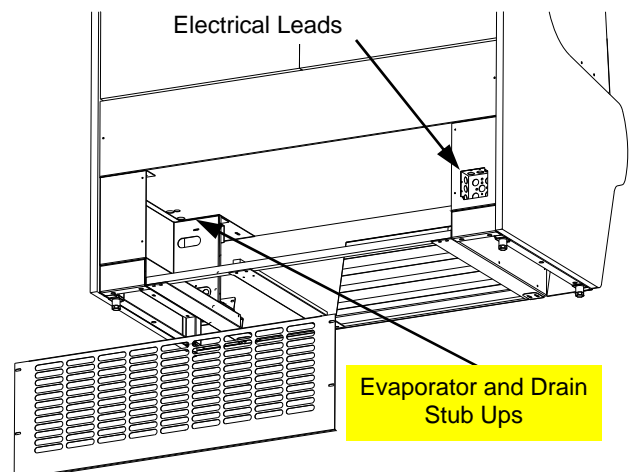
- **Electrical leads**
 - Remove lower rear and/or front panel.
 - 110V electrical lead connections are located on the left side of the unit behind the terminal block.
- **Refrigeration stub ups**
 - Refrigeration stub up connections are provided on underside of the tub inside the base of the unit.
 - Remove lower rear and/or front panel.
 - The evaporator stub up connections are located on the right hand side of the unit.



Front Refrigeration Service



Rear Refrigeration Service

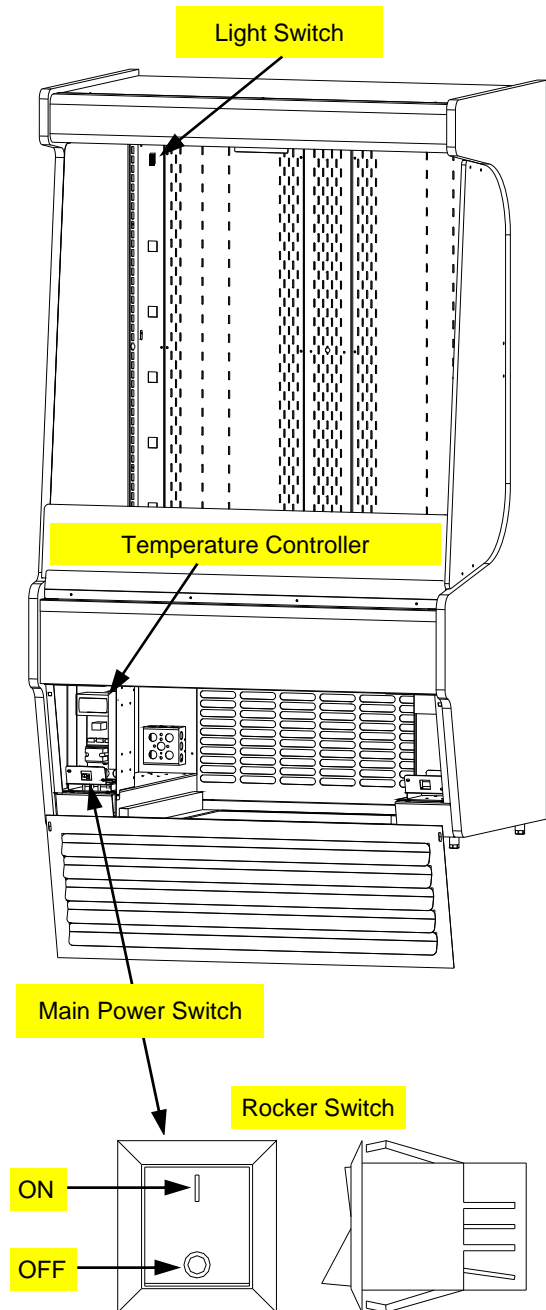


Merchandiser Start-Up

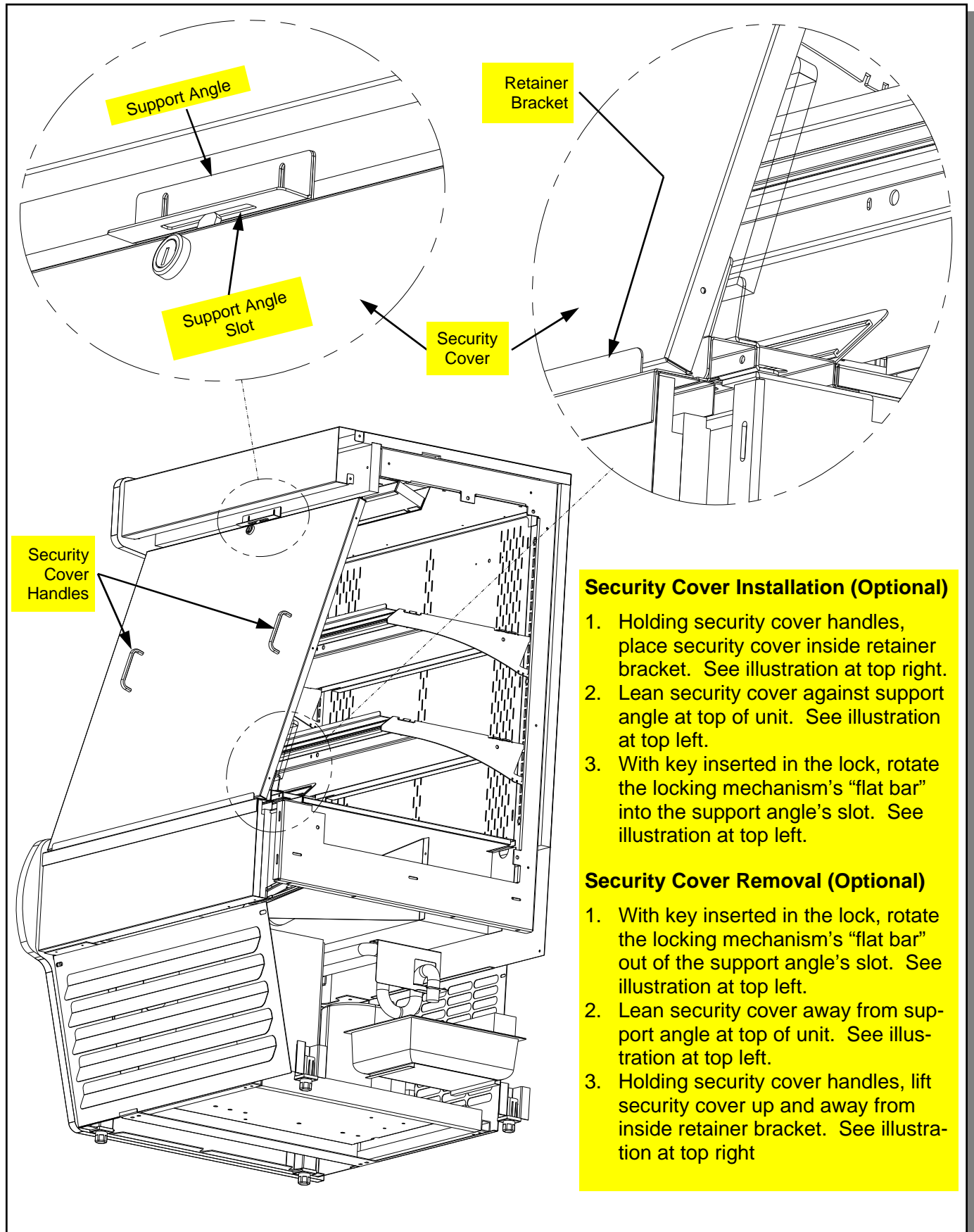
- Turn on the main power. Remove the front grill by removing the thumb screws located in each of the upper corners. Switch is on the left hand side of base. Supply power will start evaporator coil fans, and compressor motor (for units with self contained refrigeration).
- From the front of the case, raise the deck pans and check to see that the coil fans are all functioning properly.
- Replace front grille by inserting lower edge into the lower grille support tabs and insert thumb screws into the upper corner locations provided.
- Turn on the lights. Light switch is in the interior of the case above and to the left side of the top shelf. All of the 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 of the plug connections.

Temperature Settings

- The case temperature is set at the factory, (Supply air is set for a case temp at 5° Celsius / 41° Fahrenheit), as determined by the case size.
- The temperature is controlled by a thermostat.
- If a temperature setting change is required, refer to temperature control access in Refrigeration Fundamentals.



OPTIONAL SECURITY COVER - INSTALLATION AND REMOVAL



Security Cover Installation (Optional)

1. Holding security cover handles, place security cover inside retainer bracket. See illustration at top right.
2. Lean security cover against support angle at top of unit. See illustration at top left.
3. With key inserted in the lock, rotate the locking mechanism's "flat bar" into the support angle's slot. See illustration at top left.

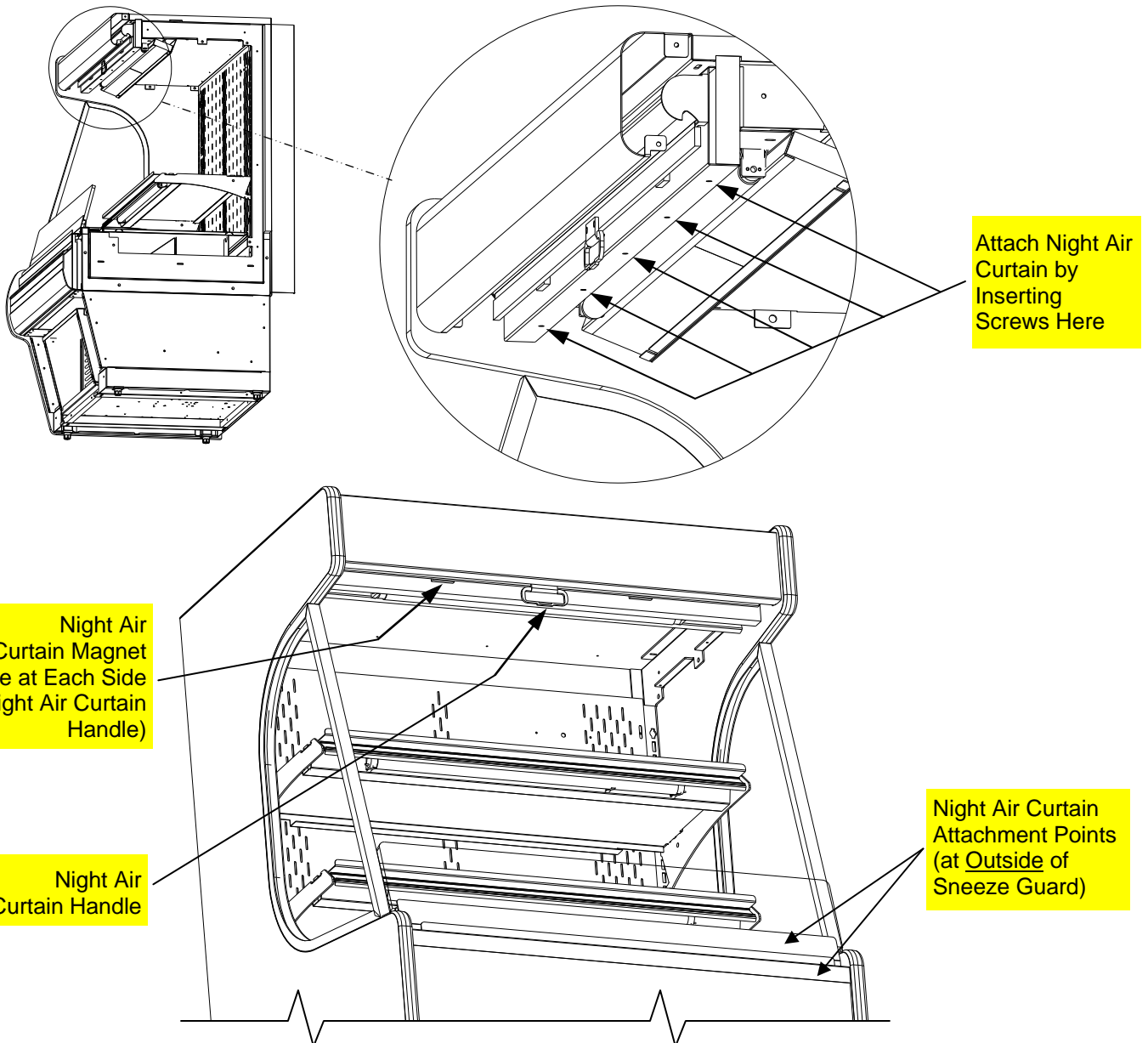
Security Cover Removal (Optional)

1. With key inserted in the lock, rotate the locking mechanism's "flat bar" out of the support angle's slot. See illustration at top left.
2. Lean security cover away from support angle at top of unit. See illustration at top left.
3. Holding security cover handles, lift security cover up and away from inside retainer bracket. See illustration at top right.

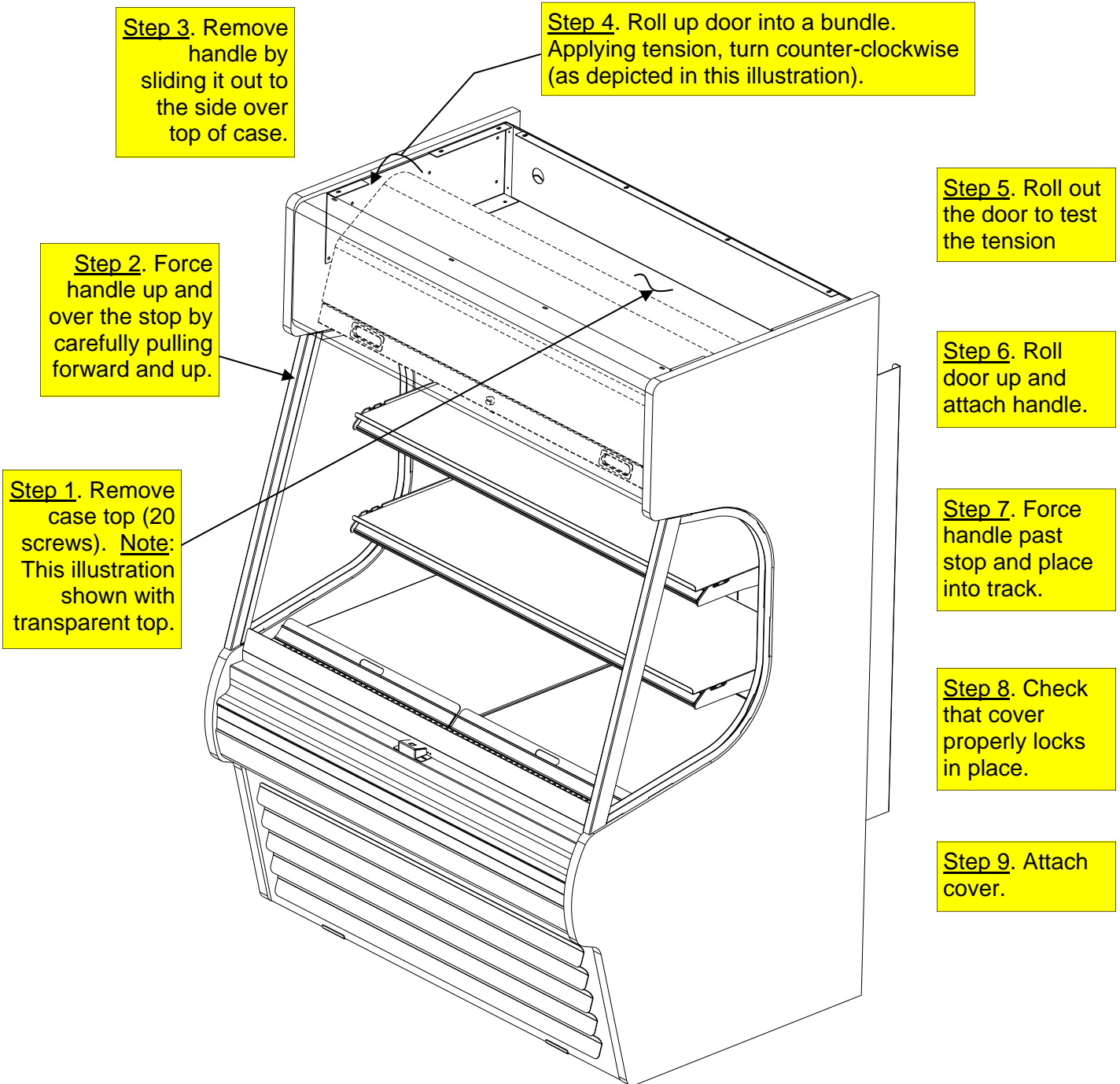
Night Air Curtain Operating Instructions

1. Use caution when handling Night Air Curtain.
2. Display case may come with Night Curtain already attached. If not, a retrofit kit will be provided. If using SCC-supplied retrofit kit, attach to display case by inserting screws at top-underside of display case (see illustration below).
3. Grasp the handle and pull downward to desired location (see illustration below).
4. Magnets will hold Night Air Curtain in place.
5. To return Night Air Curtain to its retracted position, grasp handle, lift up and away from its magnetic attachment and carefully wind Night Air Curtain back into roll.
6. **Caution!** Do not allow spring-loaded Night Air Curtain to freely snap back into roll. Doing so can eventually destroy Night Air Curtain's tension and retractability.
7. To entirely detach Night Air Curtain from case, slide Night Air Curtain toward rear of case, freeing it from its 'keyhole' slots. Lift upward and away from case.

NOTE: MODEL CO4760R IS SHOWN BELOW (WITH SHELVES & BRACKETS REMOVED). BELOW ILLUSTRATION MAY NOT EXACTLY REFLECT EVERY PARTICULAR CASE'S FEATURES OR OPTIONS.



ROLL DOOR TENSION ADJUSTMENT INSTRUCTIONS



Model CO4760R Shown Above
Roll Down Door Shown
In Dashed Lines At Top Of Case

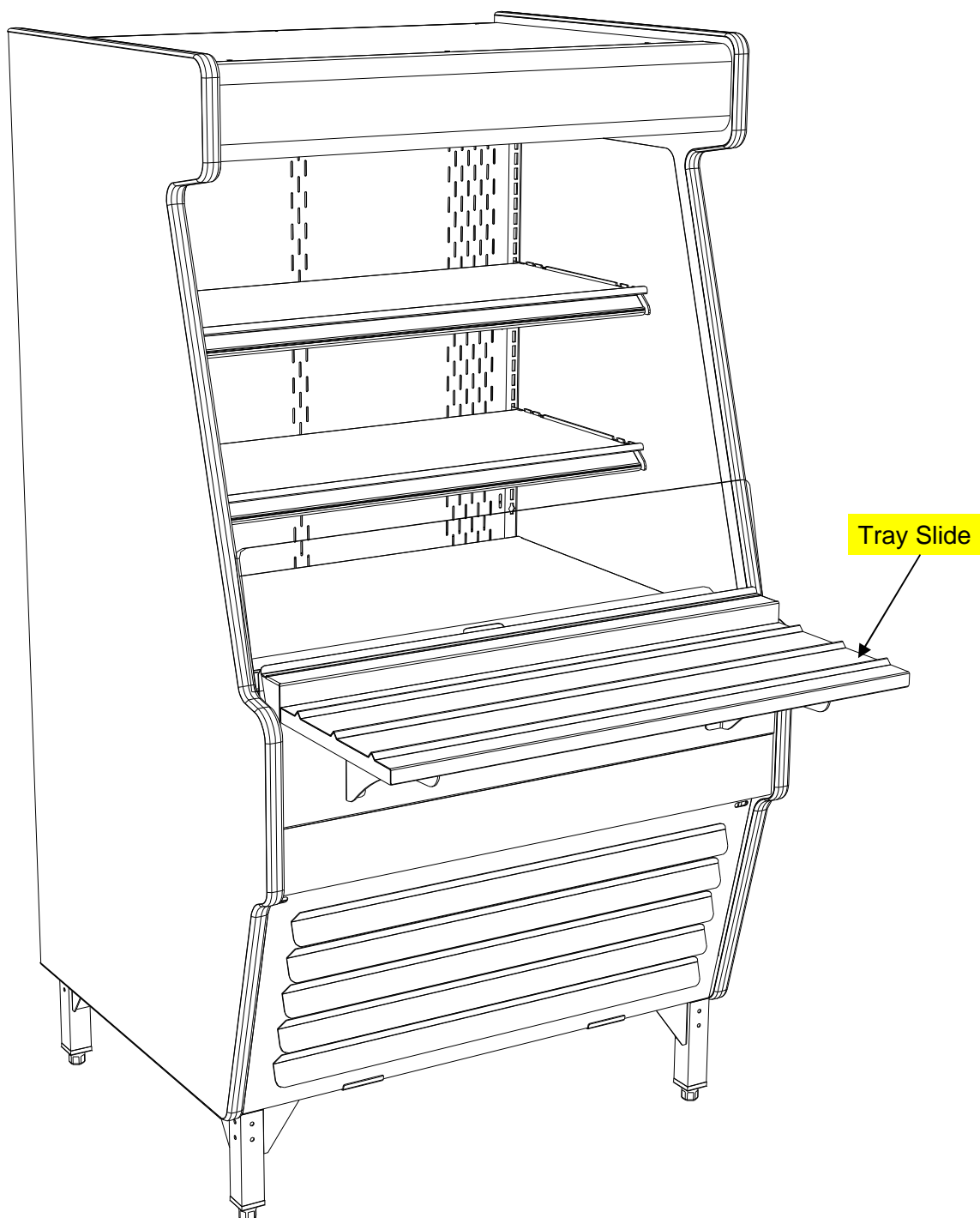
OPTIONAL TRAY SLIDE SYSTEM (SHOWN ON MODEL CO3660RT)

Note 1:

Illustration may not exactly reflect your particular case. However, general layout of optional tray slide system will be similar between all cases.

Note 2:

See sheet attached to tray slide for instructions on attaching tray slide to case.



MAINTENANCE FUNDAMENTALS

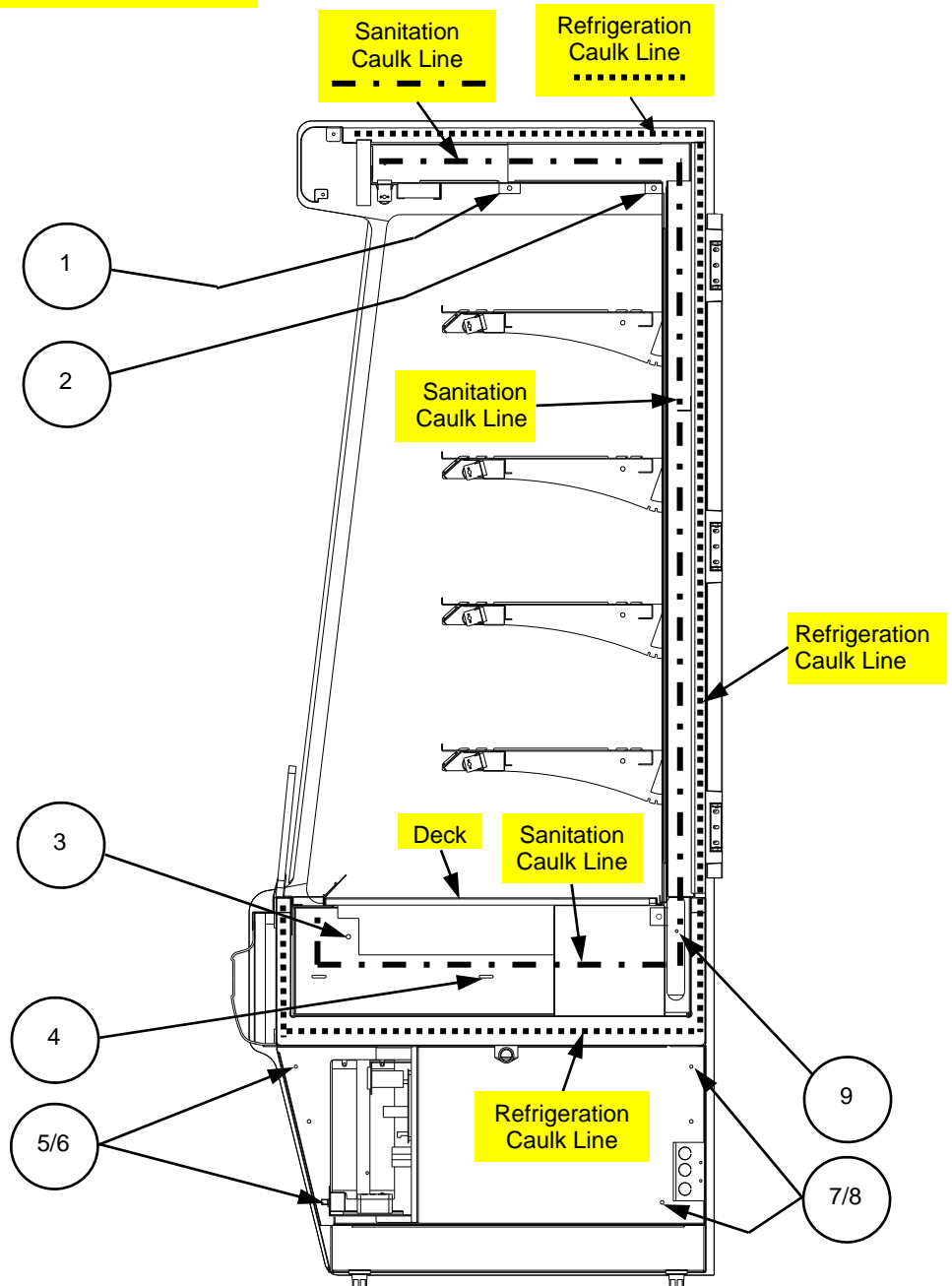
Caulking and Bolting Adjoined Units (Sample Model Is Shown below). Your model's features or options may slightly vary.

Warranty will be voided if improper sealant is used. Lay a generous bead of caulk/sealant as specified below.

- Use Industrial grade butyl caulk on non-visible areas.
- Use industrial grade silicone sealant on visible areas.
- Form Two (2) Caulk/Sealant Lines: Sanitation and Refrigeration (see illustrations below).
- Caulking/sealing tub prevents air from escaping thru seams between cases (which may cause condensa-

tion problems and reduced refrigeration efficiency).

- Caulking/sealing also prevents water from seeping between cases to the floor.
- Note: Place thicker bead of caulk around drain.
- Bolt Holes are at 9 locations:
- Use 1/4-20 x 1.00" bolts and accompanying nuts for holes 1-4 and 9.
- Use #8-32 x .37" bolts and accompanying nuts for holes 5-8.
- Remove deck pan assembly to access holes 3, 4, 9.



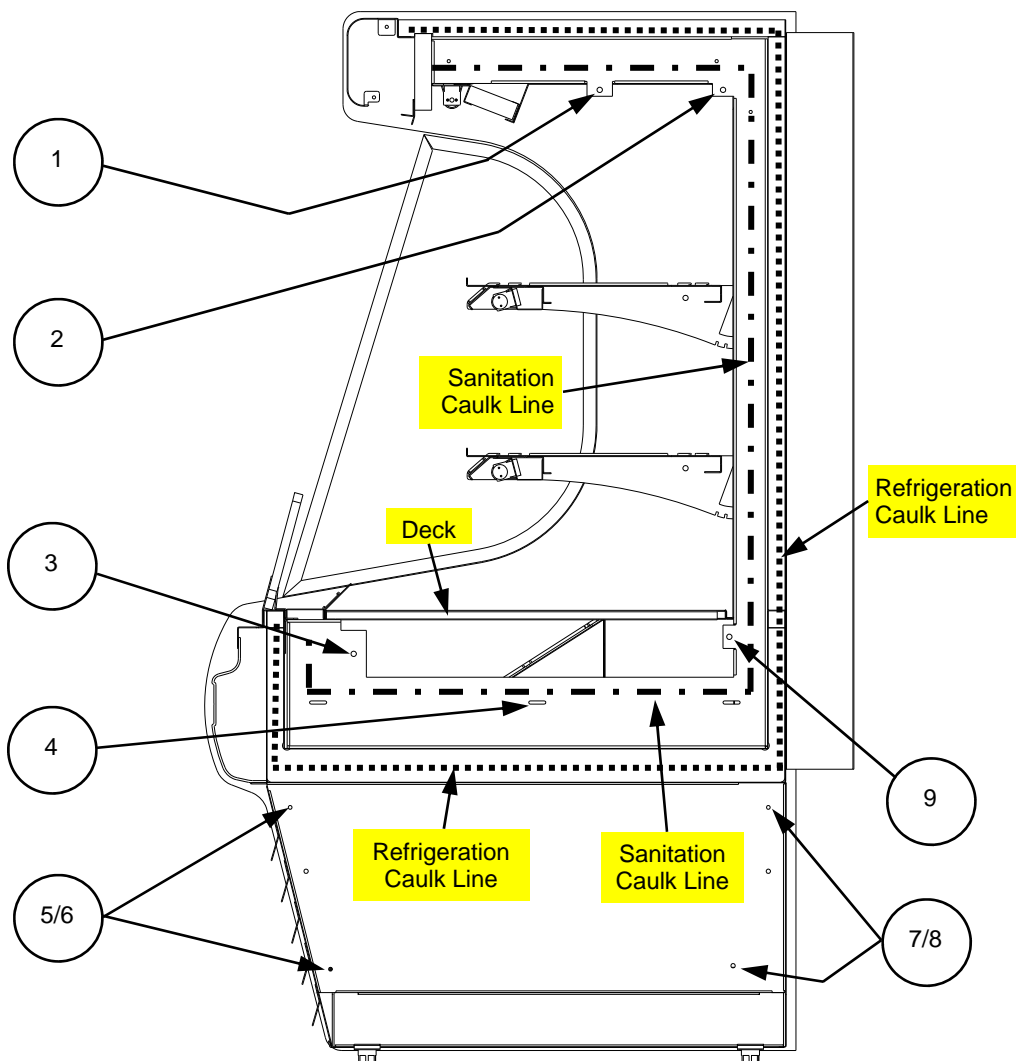
MAINTENANCE FUNDAMENTALS, CONTINUED

Caulking and Bolting Adjoined Units (Sample Model Shown Below).

Units are to be secured together at locations indicated. Level and align units.

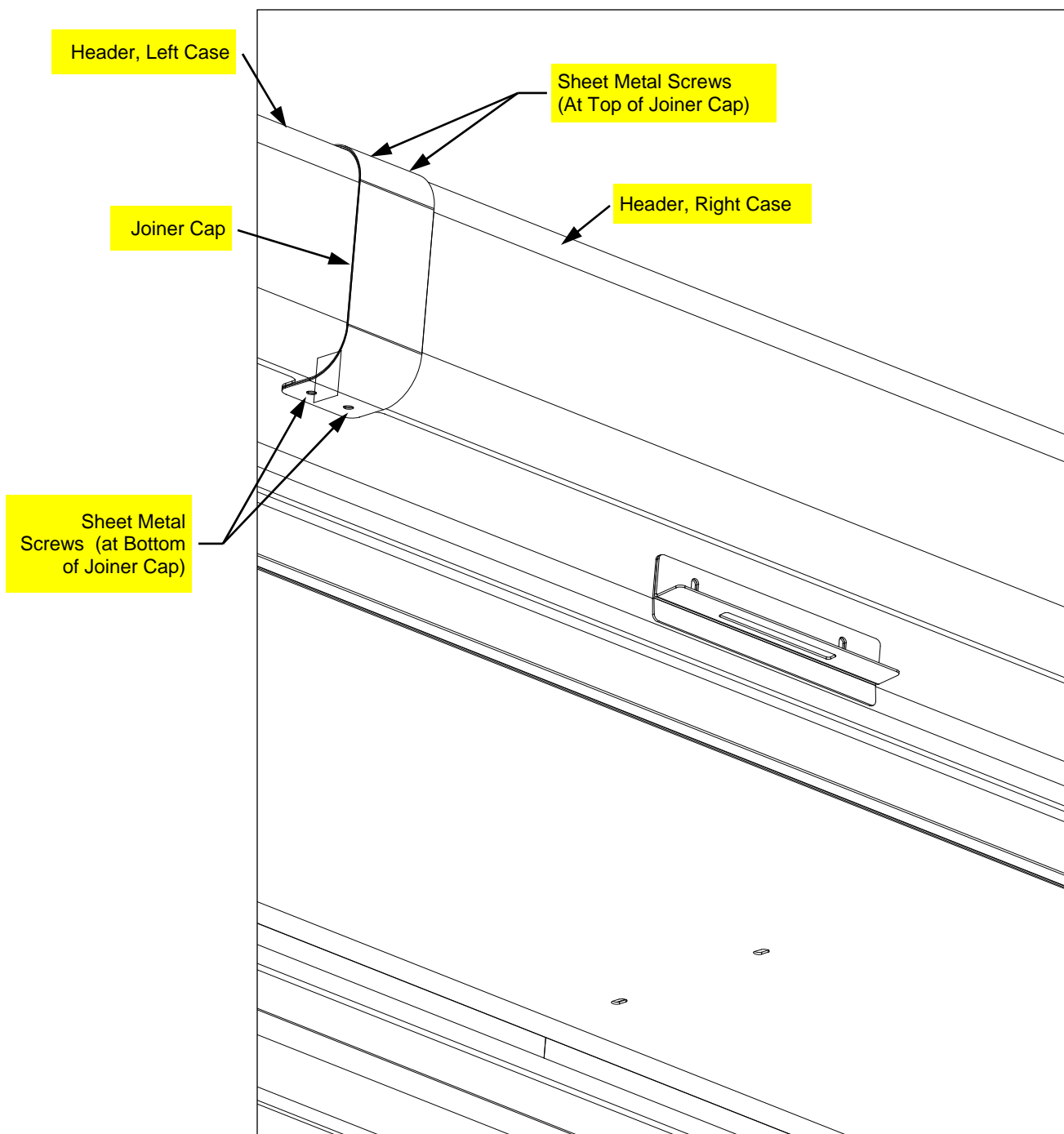
Warranty will be voided if improper sealant is used. Lay a generous bead of caulk/sealant as specified below.

- Use Industrial grade butyl caulk on all areas not visible.
- Use industrial grade silicone sealant on visible areas.
- Form Two (2) Caulk/Sealant Lines: Sanitation and Refrigeration (see illustration below).
- Caulking/sealing tub prevents air from escaping thru seams between cases (and may cause condensation problems and reduced refrigeration efficiency).
- Caulking/sealing also prevents water from seeping between cases to the floor.
- Note: Place thicker bead of caulk around drain.
- Bolt Holes are at 9 locations:
- Use 1/4-20 x 1.00" bolts and accompanying nuts for holes 1-4 and 9.
- Use #8-32 x .37" bolts and accompanying nuts for holes 5-8.
- Remove deck pan assembly to access holes 3, 4, & 9.



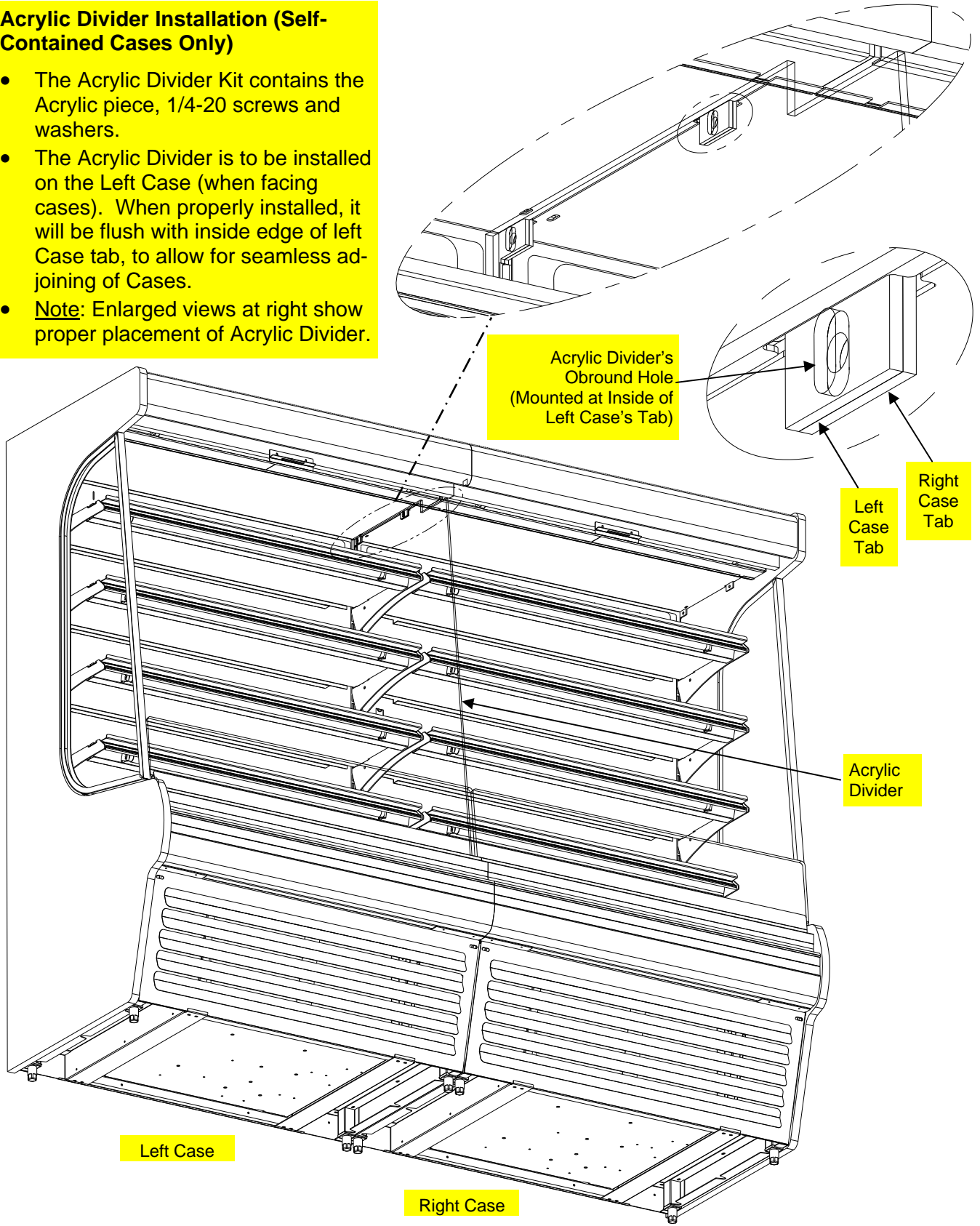
Joiner Cap & Screws Installation

- Install the Joiner Cap at connection area between Cases (illustrated below).
- Sheet metal screws are to be used to secure Joiner Cap in place.
- Make certain that screw heads are flush with Joiner cap.
- Illustration below may not be exact representation of every option or feature.



Acrylic Divider Installation (Self-Contained Cases Only)

- The Acrylic Divider Kit contains the Acrylic piece, 1/4-20 screws and washers.
- The Acrylic Divider is to be installed on the Left Case (when facing cases). When properly installed, it will be flush with inside edge of left Case tab, to allow for seamless adjoining of Cases.
- Note: Enlarged views at right show proper placement of Acrylic Divider.



Light Fixture

Removal of lamp:

- Rotate lamp (1/4 turn) either direction to disengage (upper or lower) pins/contacts from lamp mounting sockets.
- Remove bulb by applying even pressure from the back side at the bulb ends and pulling the remaining contact from the sockets.

Installation of lamp:

- Align pins with slot.
- Insert pins into socket by rotating the bulb 1/4 turn to secure either the (upper or lower) pined contacts into the sockets.
- Rotate the remaining bulb contacts (1/4 turn) into the remaining lamp mounting socket contacts.

Honeycomb Air Diffuser Removal

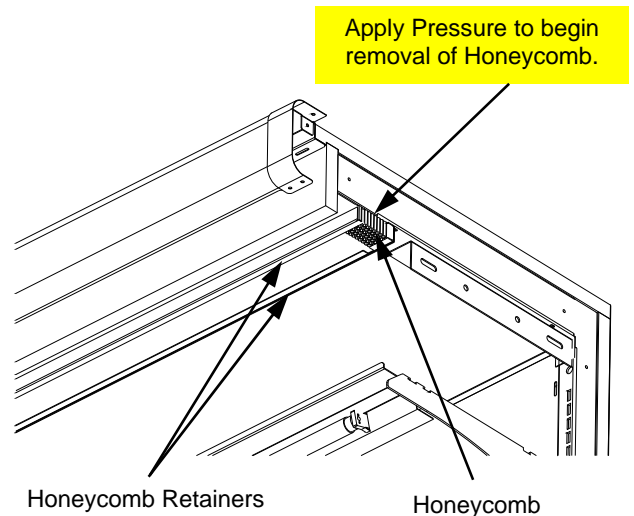
- Obtain a nonmetallic device of suitable strength such as a ballpoint pen.
 - *Use care not to damage or remove the heating element wire that prevents condensation on the assembly.*
- Wedge the instrument between the honeycomb and the top cap closure/end panel.
- Apply pressure to collapse the honeycomb and pry downward and away from the honeycomb retainer.
- Pull honeycomb out fully by grasping with fingers and pulling downward.

Honeycomb Air Diffuser Installation

- Insert honeycomb up into top cap first.
- Apply suitable pressure to collapse the honeycomb up into the honeycomb retainer.

Caster locking operation

- To lock casters push down on lever, to unlock pull up the lever all the way.



Shelf Assembly Removal

- Shelves can be removed for maintenance, cleaning or adjustments
- Slide shelf back about 1/8 inch and rotate front up while lifting shelf assembly.
- For lighted shelving, unplug the light cord.
- Slide light assembly back about 1/8 inch and rotate front up while lifting light assembly.
- Remove brackets. Note it may be necessary to remove the nylon shipping bracket retainer. Pliers will be required to accomplish this task.

Adjustable Shelves

- Adjustment of the angle of the shelf can be made, not the position.
- Adjustments to the shelves can be made by pivoting the lower portion of the shelf bracket in the upright.
- The shelves can be adjusted to an angle of: 0, 5, and 10 degrees.

Light Fixture

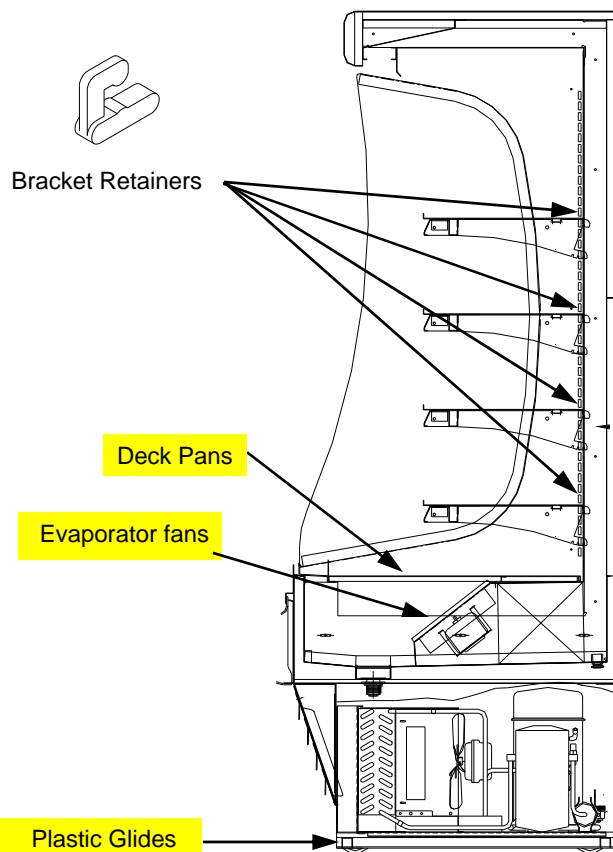
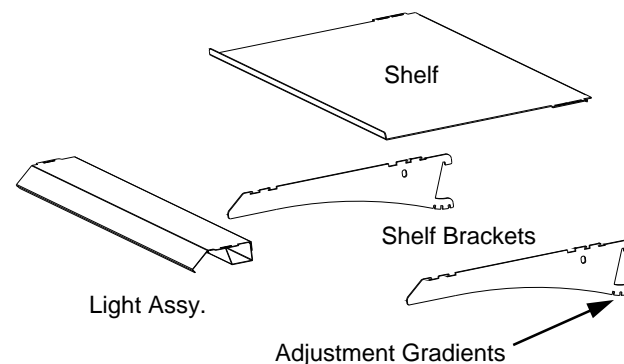
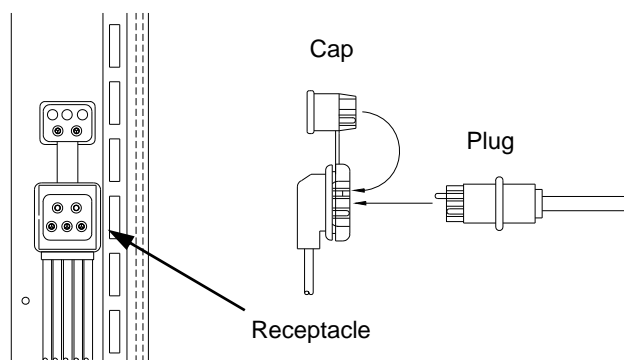
Fixtures are located on the underside of each shelf assembly and at the top inside of case.

Removal of lamp:

- Rotate lamp (1/4 turn) and remove bulb.

Installation of lamp:

- Align pins with slot.
- Insert pins into socket and rotate 1/4 turn to secure pin contacts in socket.

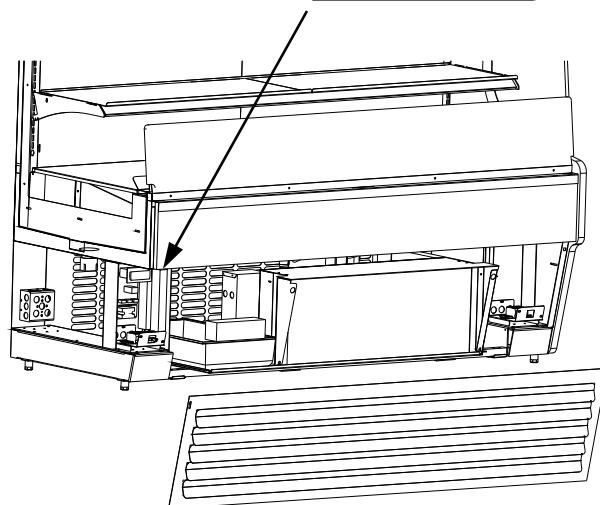
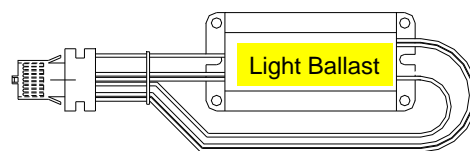


Ballast Access

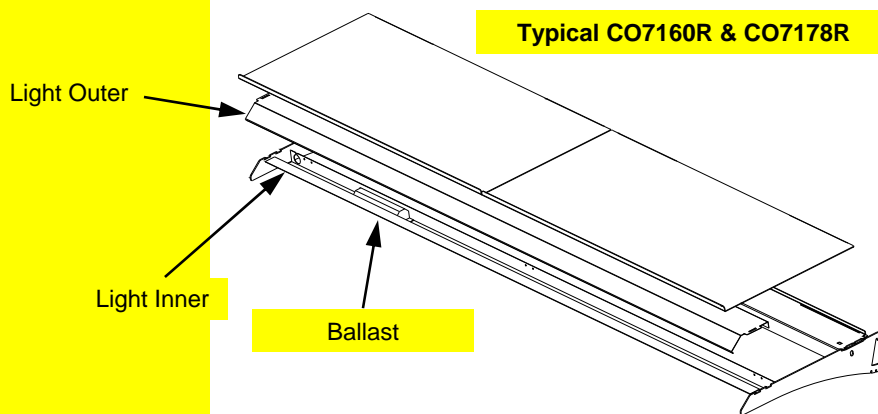
- **Assembly or disassembly and servicing is to be accomplished by a licensed electrical contractor.**
- Remove the front grille by removing the thumb screws located in each of the upper corners.
- Ballast are mounted inside the electrical box on the lower left side of the case.

Note: Models CO7160R & CO7178R have ballasts located in each shelf light assembly.

- For models CO7160R & 7178R see shelf assembly removable.
- Disassemble shelf light for access to ballast.
 - Remove screws from the back of shelf assembly.
 - Separate the light outer from the light inner.



Depending upon model, above illustration may slightly differ from your particular case.

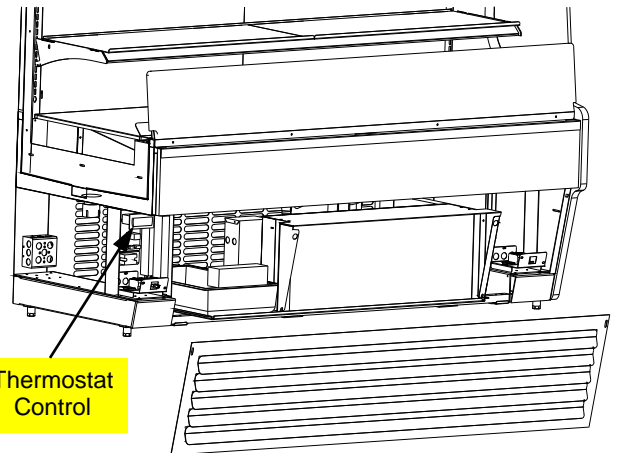


Refrigeration: Access, Connections & Servicing

- **Assembly or disassembly and servicing to be accomplished by licensed electrical / refrigeration contractor.**
- Remove the appropriate front or rear grille.
- *Refrigerant lines are flexible to facilitate access maintenance.*
- Plastic glides are mounted to the unit base to assist in sliding the condenser out for access.
- Slide condenser unit out approximately twelve inches for servicing.

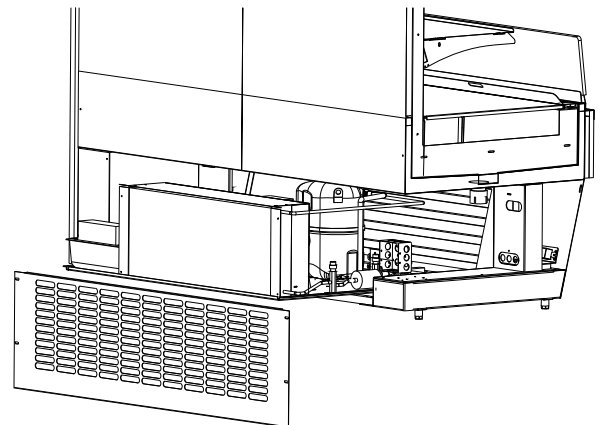
Temperature Control Access

- **Assembly or disassembly and servicing to be accomplished by licensed electrical / refrigeration contractor.**
- Remove the front grille by removing the thumb screws located in each of the upper corners.
- Thermostat control is mounted inside the electrical box on the lower left side of the case.
- If a temperature setting change is required, refer to the **Carel® Controller** section in this operating manual.



Thermostat Control

Front Refrigeration Service



Rear Refrigeration Service

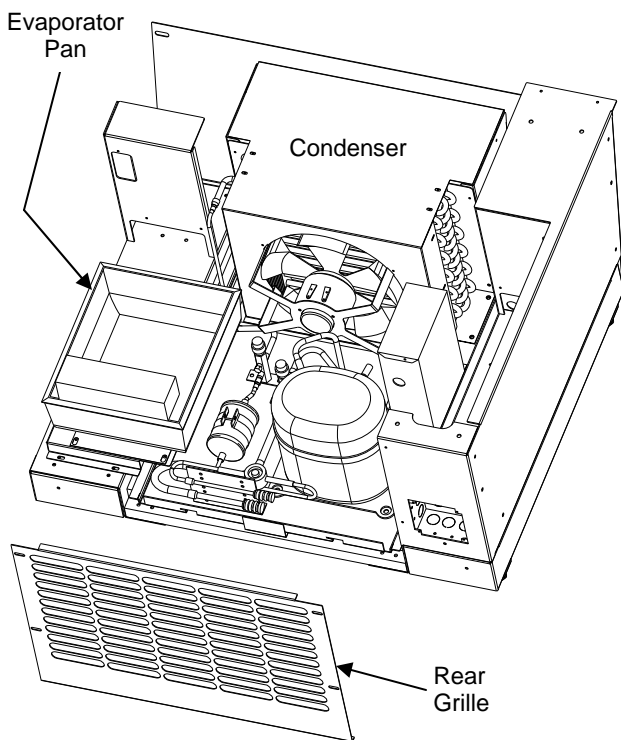
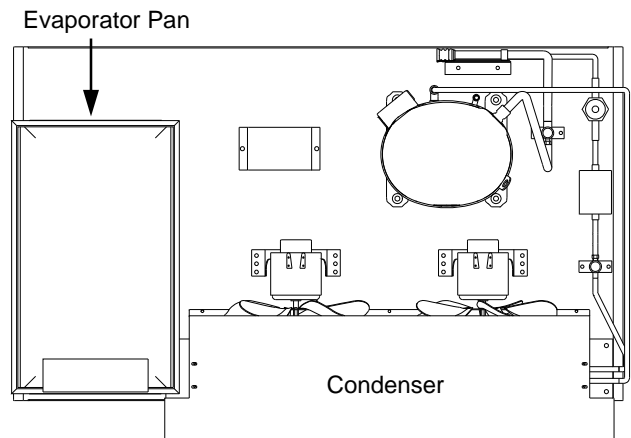
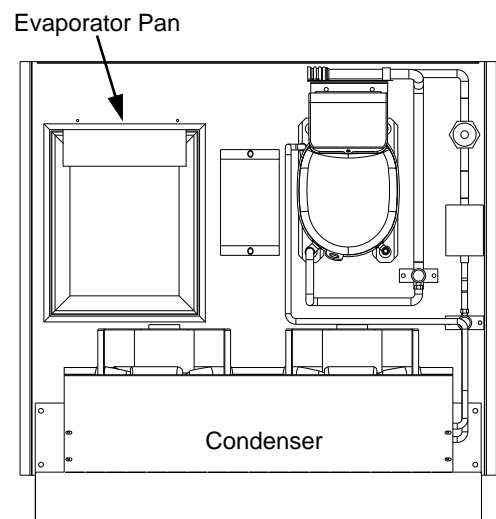
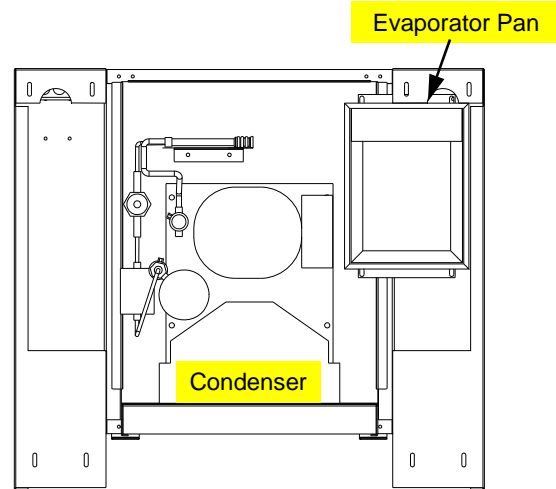
Evaporator Coil Fans Access

- Remove all product.
- Remove display steps.
- Remove deck pan for coil fans access.

Evaporator Pan Access and Removal

- Remove the appropriate lower grille:
 - ~ Remove the Rear Grille if the refrigeration unit has front serviceable refrigeration.
 - ~ Remove the Front Grille if the refrigeration unit is serviceable from rear.
- Insure evaporator pan is unplugged at the 220V Receptacle inside base.
- **Check temperature of pan prior to handling.**
- Empty evaporator pan contents into a suitable container.
- Return Evaporator Pan to original position.
- Note: On certain models (such as CO3660R), Evaporator Pan may not be removable.

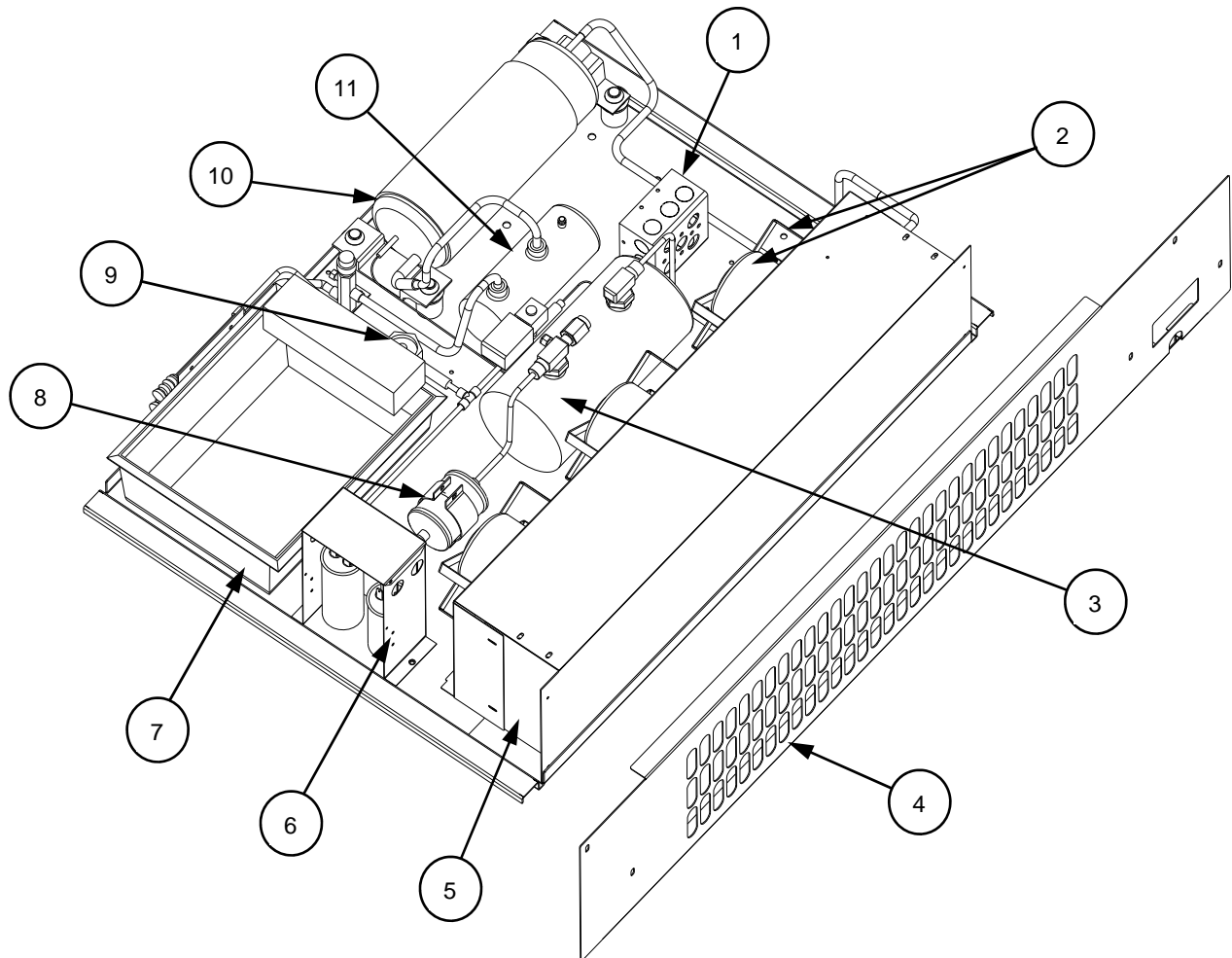
Typical configurations are shown below. See next page for Scroll Compressor.



Typical Configurations, Continued


- Note: Scroll Compressor Unit is shown in illustration below.
- Your particular compressor may have slightly different arrangements.
- General Access and Removal instructions (on previous sheet) also apply to cases with Scroll Compressor units.

1	4 x 4 Electrical Box	7	Condensate Evaporator Pan
2	Fan Motor & Fan Shroud	8	Filter / Drier
3	Receiver	9	Sight Glass
4	Grille, Rear	10	Compressor
5	Condenser Coil	11	Suction Accumulator
6	Electrical Box, Compressor		



Serial Label Location & Information Listed / Technical Information & Service


- Serial labels are located near the electrical access on your case.
- Serial labels contain electrical, temperature & refrigeration information, as well as regulatory standards to which the case conforms.
- For additional technical information and service, see the *TECHNICAL SERVICE* page in this manual for instructions on contacting Structural Concepts' Technical Service Department.
- See images below for samples of both refrigerated and non-refrigerated serial labels.



888 E. Porter Rd · Muskegon, MI 49441

ENCORE[®] MODEL HV74RSS SCROLL
SERIES SERIAL NO.

FOR PARTS AND SERVICE
CALL 1-800-433-9489



3048256
CONFORMS TO UL STD 471
CONFORMS TO NSF STD 7
CERTIFIED TO CAN/CSA
STD C22.2 NO 120


ELECTRICAL RATING 120/1/60 24A
REFRIGERANT R404A AMOUNT ?? OZ
DESIGN PRESSURE HIGH 450 LOW 200
MINIMUM CIRCUIT 30A
MAXIMUM OVERCURRENT 30A

SAMPLE ONLY

Super Heat Temp	8-10°F
BTUH Requirements	9,738 BTUH @ 20° F SST
Defrost	6 defrosts per day, 45° F termination, 45 min. failsafe

SAMPLE ONLY

----- Sample Serial Label For Refrigerated Case -----




888 E. Porter Rd · Muskegon, MI 49441

Addenda[®] PC5682 txtRemote
txtSerialNumber

120 VOLTS 60 HZ SINGLE PHASE 1.84AMP

FOR PARTS OR SERVICE CALL
STRUCTURAL CONCEPTS
AT
1-800-433-9489



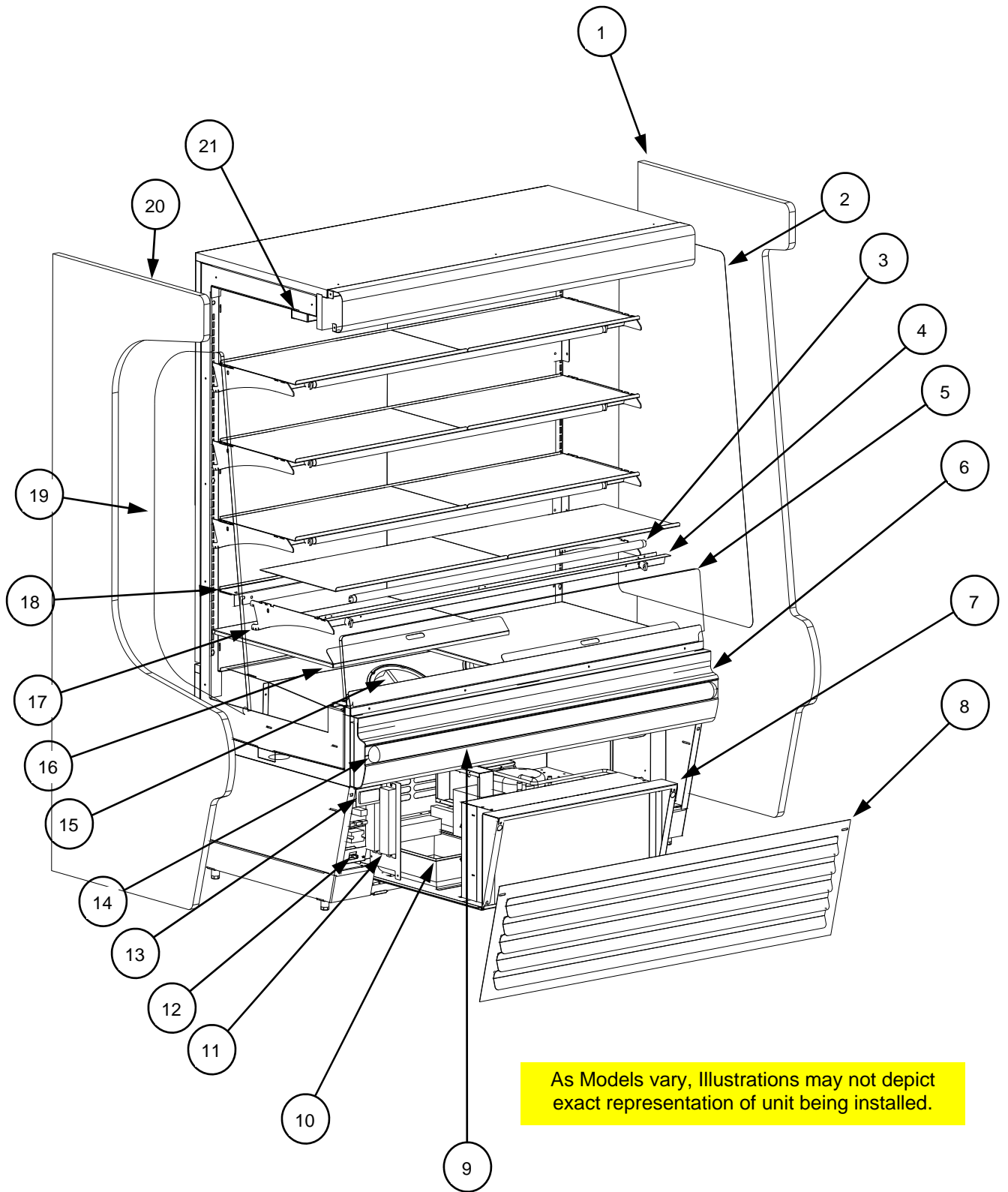
3048256
CONFORMS TO UL STD 65
CERTIFIED TO CAN/CSA
STD C22.2 NO 120

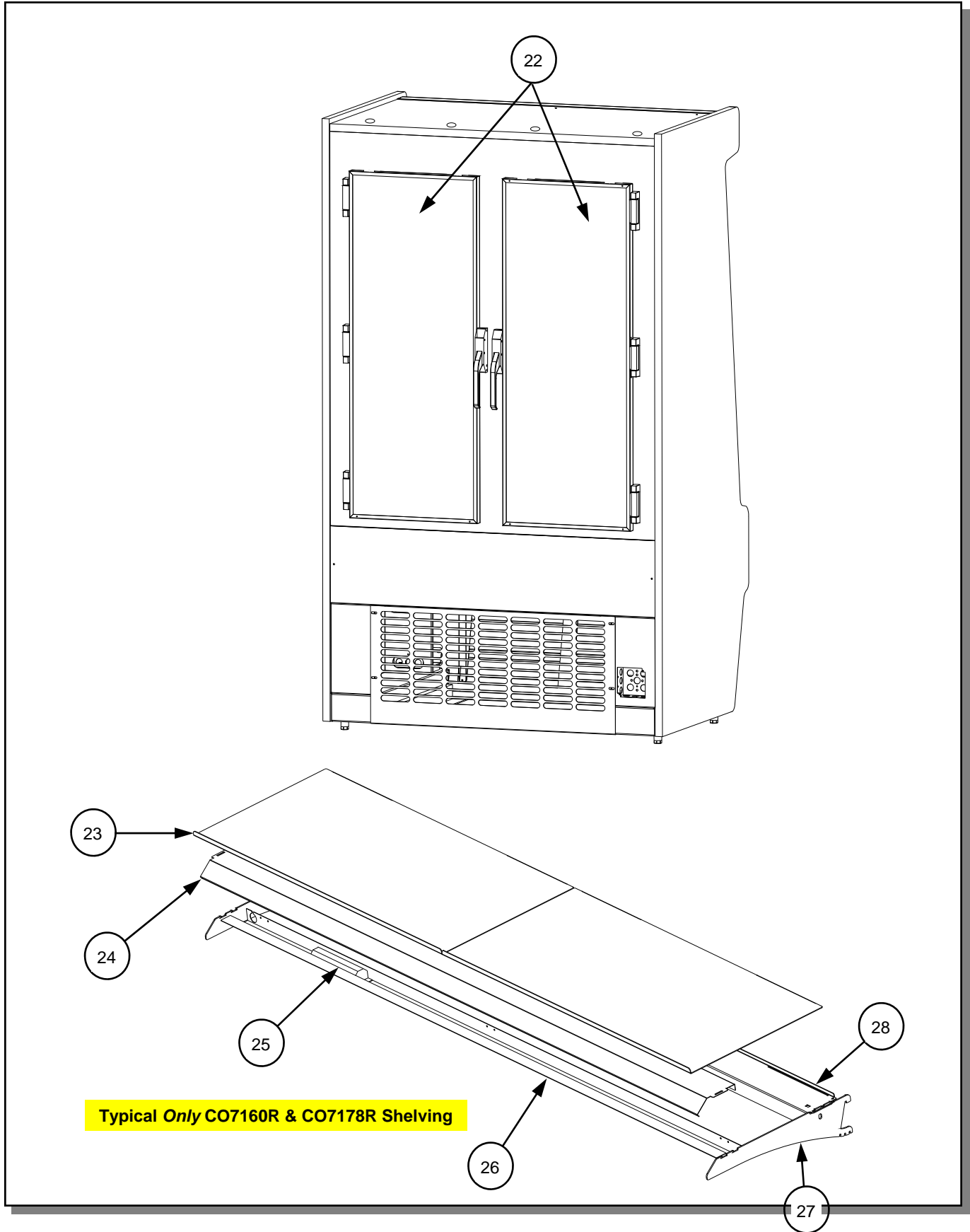
SAMPLE ONLY

N/A

----- Sample Serial Label For Non-Refrigerated Case -----

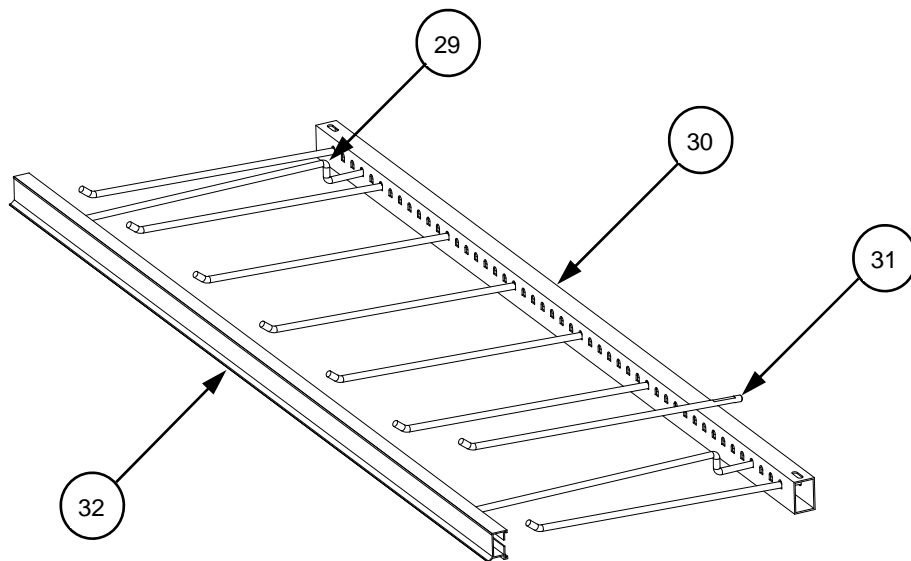
ILLUSTRATED PARTS BREAKDOWN (ILLUSTRATION MAY NOT APPLY TO ALL CASES)





PARTS LIST

1	End Panel, Full	18	Shelf
2	Mirror	19	End Glass
3	Bulb	20	End Panel, Cutaway Shown
4	Rack Light Assembly	21	Honeycomb
5	Acrylic Front Air Deflector	22	Rear Doors (Optional)
6	Front Panel, ABS Shown	23	Shelf
7	Refrigeration Assy., Slide Out Front	24	Light Outer
8	Front Lower Grill	25	Ballast
9	Bumper Insert	26	Light Inner
10	Evaporator Pan	27	Shelf Bracket
11	Ballast	28	Rear Rack Support
12	Rocker Switch, Main Power	29	Channel ID Support
13	Thermostat Control	30	Magna Bar
14	Bumper End Cap	31	Peg 12"
15	Evaporator Fan & Motor	32	Channel ID
16	Deck Pan		
17	Shelf Bracket		



PREVENTIVE MAINTENANCE	FREQUENCY	INSTRUCTIONS
Case Exterior	Monthly	<p>Condensing Coil:</p> <ul style="list-style-type: none"> • Remove Rear Grille (by removing 4 screws). • Use air pressure or industrial strength vacuum; clean dust and dirt that may collect on the Condenser Coil. See illustration below. • Caution! Coil fins are sharp. Handle with care! • Replace Rear Grille to case (4 screws). • See illustration below.
	Quarterly	<p>Clean Sweep™ Condensing Coil (Optional): <i>Disconnect power from case before cleaning Clean Sweep™ Condenser Coil!</i></p> <ul style="list-style-type: none"> • Remove Rear Grille (by removing 4 screws). • Slide/Roll out condensing unit assembly. • Remove the four (4) screws holding the Clean Sweep™ rails intact. • Remove the Clean Sweep™ rail. • Wash rails' brushes in hot water and mild soap solution. • If brushes are worn, they must be replaced. Call Technical Service Department to replace. Toll-Free number is listed at end of manual. • Clean Condensing Coil: Use air pressure or industrial strength vacuum; clean the dust and dirt that may collect on the Condenser Coil. • Caution! Coil fins are sharp. Handle with care! • Reattach Clean Sweep rail to condensing unit (4 screws). • Slide/Roll Condensing Unit Assembly back under case. • Replace Rear Grille to case (4 screws). • See photos below.

WARNING! TURN OFF CASE BEFORE PERFORMING PREVENTIVE MAINTENANCE!

PREVENTIVE MAINTENANCE	FREQUENCY	INSTRUCTIONS
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TROUBLESHOOTING

Product is Drying Out	Check the relative humidity in the store.
Water on the Floor	Check that all of the hoses are connected.
	Check that the drain trap is free of debris.
	Is the evaporator pan positioned correctly under drain?
	Is the evaporator pan plugged in and heating properly?
	Check the evaporator pan float for proper operation.
Excessive Fan Noise	Check that the case is aligned, level and plumb.
	Check that nothing is obstructing the blade rotation.
	Check that the fan shroud is properly secured.
System is not Operating	Check that the utility power is on.
	Check that the MAIN power switch is on.
	Check the circuit breaker box for tripped circuits.
Fans Not Working	Check that the fans are plugged in at the fan shroud.
	Determine if there is ice build up blocking the fan.
Case Lights Not Working	Check bulbs for proper installation and connection.
	Check for burned out bulbs.
	Clean dirt and dust from the bulbs to prevent flickering.
Not Holding Temperature	Check that the coil fans are working.
	Check that the discharge air is not disrupted or blocked by product.
	If a large amount of warm product was added to the case, it will take time for the temperature to adjust.
	Check the coil for ice build up.
	Check that the condenser coil is clean.
	Check that the case is not in the sun or near a heat or air conditioning vent.
	Case temperature will rise during defrost mode but will return to normal. Proper product temperature will be maintained.
	Is case located near outside doors? Wide temperature fluctuation can take place in such an environment.
Condensing Unit Not Operating	<i>DEF</i> flashing, Controller is in defrost mode (not an alarm). Compressor is running in a normal condition.
	Check that the power is turned on.
	Review factory time settings on the temperature controller. See the Carel® Controller section of this manual.
Various Alarms Going Off	See the Carel® Controller section of this manual.

CLEANING SCHEDULE

Cleaning	Daily	Weekly	Monthly	Task
Clean Case Exterior	X			The acrylic must be cleaned with a mild soap and water solution and a soft cloth (Never use a household cleaner on acrylic).
Clean Case Interior	X			Shelves and decks can be cleaned with a warm soap and water solution.
		X		Remove decks. Clean with soap and water.
		X		Vacuum tub under deck. Clean with soap and water. Wipe dry with clean cloth.
		X		Keep drains clean and free of debris which could clog the drain and rob the case of needed refrigeration.
			X	Clean Honeycomb. See Maintenance Fundamentals section for specifics on removal and replacing.
				<p>Clean Condensing Unit (including Evaporator Pan)</p> <p>Warning: Evaporator pan may be hot. Allow Evaporator Pan to cool approximately 30-minutes before cleaning.</p> <ol style="list-style-type: none"> 1. Turn off power. Disconnect case from power source. 2. Remove front panel. 3. Disconnect Evaporator Pan electrical connection from Receptacle Box. 4. Remove Evaporator Pan mounting screws from Compressor Pan. 5. Remove Evaporator Pan from unit. 6. Thoroughly clean evaporator pan with de-scaling solution, such as CLR®. Rinse thoroughly. DO NOT submerge in water. 7. Use clean towel dipped in soap and water solution to wipe down all fans, motor, refrigeration lines, cords, knobs, sight glass, connectors and all other surfaces. 8. Wipe dry. 9. Reposition Evaporator Pan on Compressor Pan. 10. Reattach mounting screws to Evaporator Pan. 11. Reconnect Evaporator Pan electrical connections. 12. Slide back under case. 13. Replace front panel.
Clean Condensing Coil		X		Clean the condenser coil.
			X	Using air pressure if available, or an industrial strength vacuum, clean the dust and dirt that collects on the condenser coil. (Be careful not to damage the fins on the coil.)



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