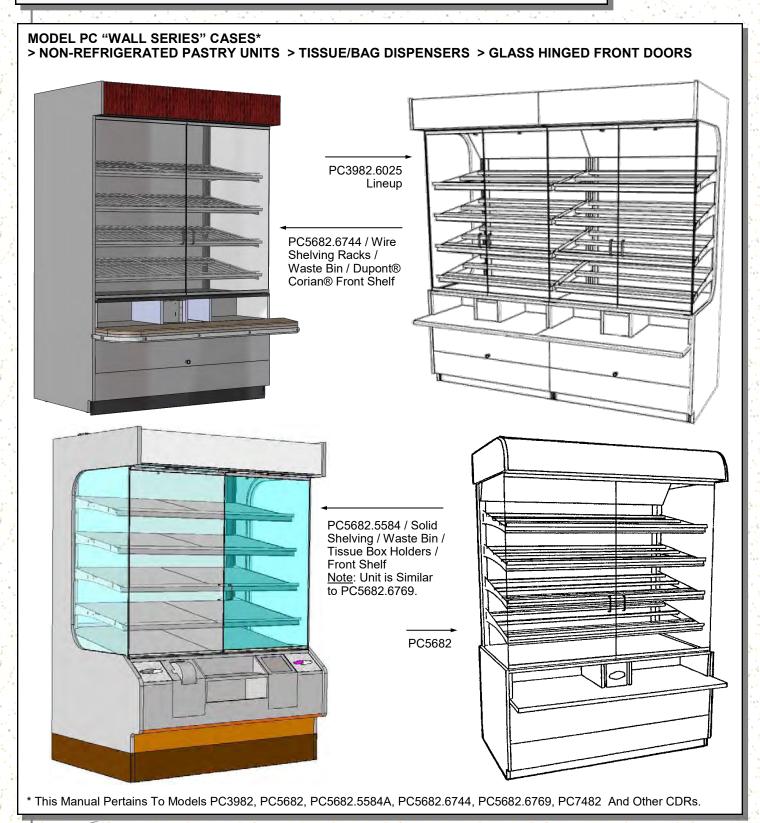


INSTALLATION & OPERATING MANUAL

PN 86772





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

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OVERVIEW / TYPE / COMPLIANCE / WARNINGS / PRECAUTIONS / WIRING / PLUGS

OVERVIEW

- These Structural Concepts Addenda® self-service cases are designed to merchandise unpackaged and/or packaged products at ambient temperatures.
- 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. See below guideline.

WARNING

 Carefully read "Electrical Hazard" section below to prevent injury or death. Please read carefully!

PRECAUTIONS

 Carefully read "Lamp Replacement Guidelines" below for important precautions to prevent damage.

WIRING DIAGRAM

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



COMPLIANCE

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



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.



CAUTION! LAMP REPLACEMENT GUIDELINES

LED lamps reflect specific size, shape and overall design. Any replacements must meet factory specifications.

Fluorescent lamps have been treated to resist breakage and must be replaced with similarly treated lamps.





CAUTION! GFCI BREAKER USE 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! POWER CORD AND PLUG MAINTENANCE

Risk of electric shock. If cord or plug becomes damaged, replace only with cord and plug of same type.

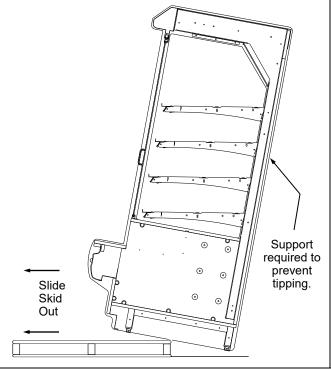


WARNING: This product can expose you to chemicals, including Urethane (Ethyl Carbamate), which are known to the state of California to cause cancer and birth defects or other reproductive harm. For more information go to P65Warnings.ca.gov.

INSTALLATION / POSITIONING AND ALIGNING / ADJUSTING LEVELERS

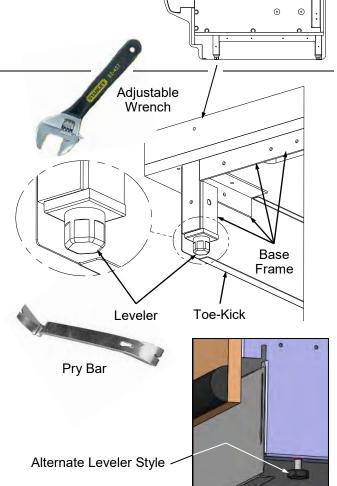
1. Remove Unit From Skid

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 & Align Case Alongside Others

- Before adjusting levelers, make certain that the case is in proper position and, if required, aligned with adjoining case(s). Line up areas A & B as shown below.
- This may require the repositioning of the case you are installing or the already positioned cases



3. Adjust Levelers

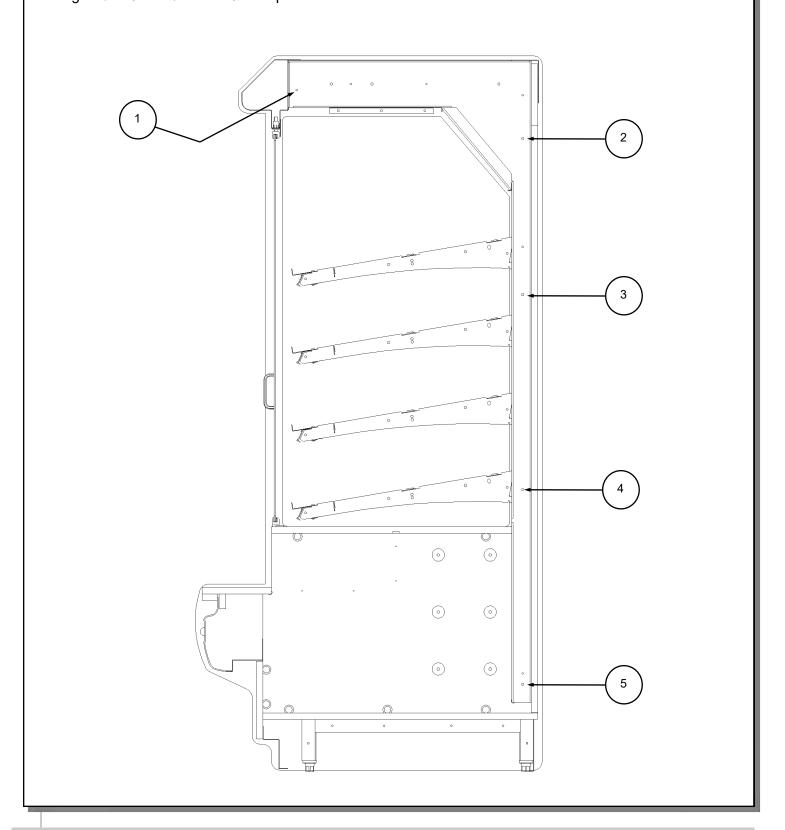
- After case is in proper position, adjust case so it is level and plumb (see illustration at right).
- You may need to remove front and/or rear Toe-Kick to access levelers.
- Use adjustable wrench to adjust leveler.
- Depending upon case weight it may be necessary to use a Pry Bar to accomplish this task.
- Do not use Pry Bar on Toe-Kick as it may buckle.
- Do not use Pry Bar on End Panel as it may chip.
- Use Pry Bar ONLY on Base Frame to avoid damaging case.
- See illustration and photos at right.

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

INSTALLATION, CONTINUED: BOLTING ADJOINED UNITS

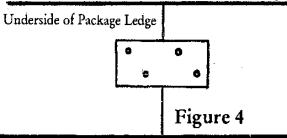
4. Bolting Adjoined Units

- View shown is after removal of end panel.
- Units are bolted together at locations shown. Eight 1/4-20 x 2 1/2" bolts & nuts provided.



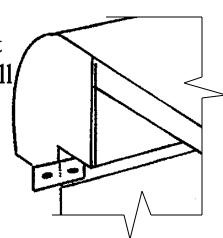
5. Join Package Ledges

• With the 4"x 1.5" plate and four #10 x 5/8" screws provided in the installation kit, screw the underside of the package ledges together.

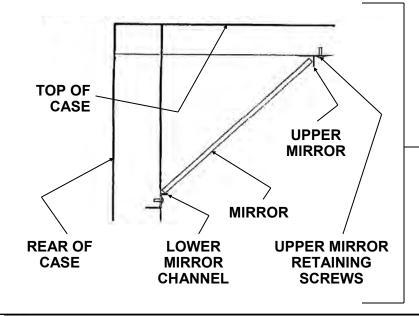


6. Join Headers

• Using the 2"x 3" bracket and two #10 x 1/2" slf. drill screws provided in the installation kit, join the sheet metal portions behind the header.



7. Mirror Installation & Retrofitting



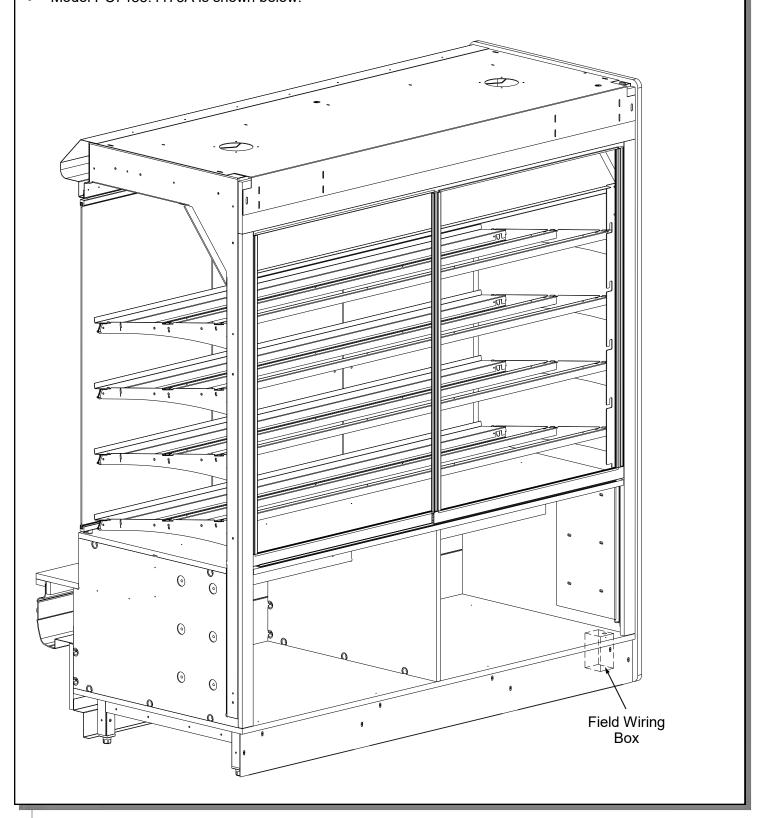
CAREFULLY FOLLOW THESE MIRROR INSTALLATION INSTRUCTIONS:

- 1. TO MAINTAIN SAFETY, TWO PEOPLE SHOULD PERFORM THIS STEP- BY-STEP PROCEDURE.
- 2. LOOSEN UPPER MIRROR RETAINING SCREWS.
- 3. PLACE LOWER END OF MIRROR AGAINST LOWER MIRROR CHANNEL.
- 4. ROTATE UPPER MIRROR CHANNEL INTO PLACE [BEHIND UPPER MIRROR CHANNEL].
- 5. AFTER CHECKING THAT MIRROR IS SECURE, TIGHTEN UPPER MIRROR RETAINING SCREWS.
- 6. RE-CHECK THAT MIRROR IS SECURELY HELD IN PLACE AND WILL NOT COME LOOSE.

ELECTRICAL FUNDAMENTALS: FIELD WIRED MODELS

1. Electrical Fundamentals (Field Wired Models)

Electrical access is at <u>lower-right side</u> of case (when facing rear of case).
120V single phase leads provided.
Model PC7485.4175A is shown below.



ELECTRICAL FUNDAMENTALS, CONTINUED: PLUG/CORD UNITS

2. Electrical Fundamentals (Plug/Cord Units)

Warning: Disconnect power before providing maintenance/service to unit.

On units with plug/cord setup, electrical access is at <u>lower-right side</u> of case (when facing rear of case).
J-Box and 120V single phase cord and plug is provided.
Model PC7482.5886D is shown below.



ELECTRICAL FUNDAMENTALS, CONTINUED: T-8 / FLUORESCENT BULBS

3. T-8 / Fluorescent Light Fixtures

<u>Warning</u>: Disconnect power before providing maintenance/service to unit.

Ballast Access/Removal

Assembly or disassembly and servicing to be accomplished by licensed electrical contractor.

- The light ballast is located inside the header.
- Unplug light harness (plug and receptacles). See next page for illustration.
- Remove the header electrical box.
 - · Remove florescent bulb.
 - Remove screws securing the ballast box to the header top.
 - Remove wire nuts from electrical leads.
 - Some models have quick disconnect releases from the wire harness.
- · Remove nuts from ballast end mounting flanges.

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

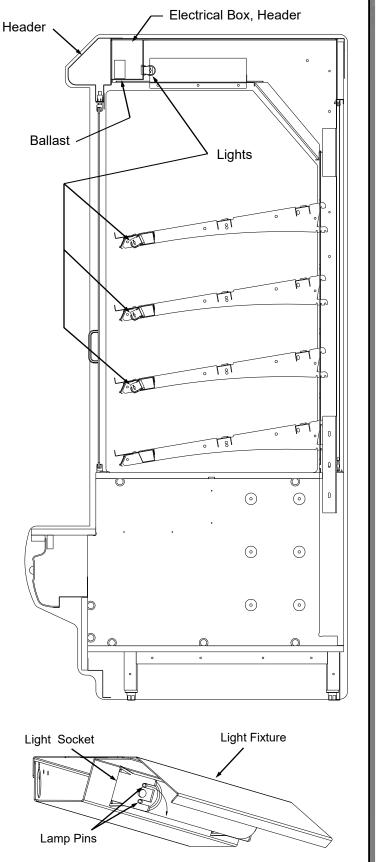
Removal of lamp:

• Rotate lamp (1/4 turn) so that pins are aligned in slots 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.





ELECTRICAL FUNDAMENTALS, CONTINUED: LED LAMPS

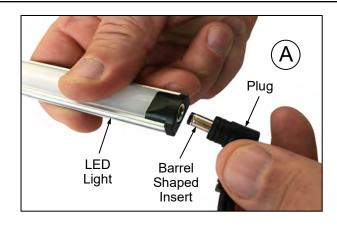
4. LED Style Light Fixtures

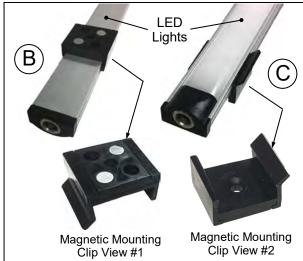
Removal of Faulty LED Lights:

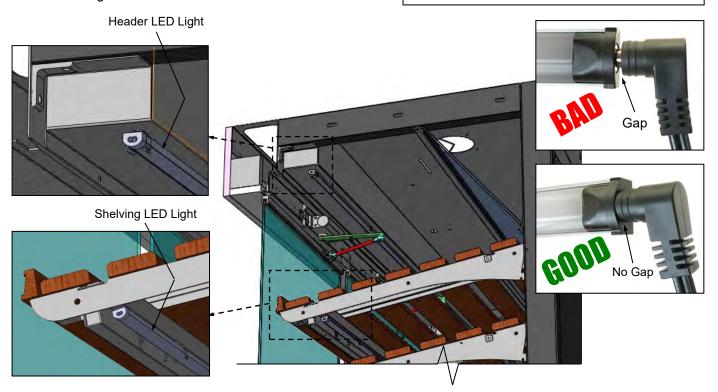
- Contact Structural Concepts' Technical Service Department for replacement LED lights.
- Turn off LED light switch.
- To remove faulty LED light, follow these steps:
 - A. Disconnect plug from LED light.
 - B. Using both hands, grasp LED light assembly (with its magnetic mounting clips). Pull downward and off its shelf (or header).
 - C. Remove magnetic mounting clips from LED light by pressing against flange part of clip with thumb.
- >> <u>Note</u>: Mounting clips MAY be riveted to shelf or header. In such instances, simply remove LED light from mounting clips by pressing against flange part of clips with thumb.

Replacement of LED lights:

- Attach magnetic mounting clips onto LED light.
- Adjust magnetic mounting clips so they are equally spaced on LED light.
- Reattach LED light assembly to its shelf/header.
- Position properly in shelf/header.
- >> <u>Note</u>: If mounting clips are riveted to shelf (or header), attach by placing LED in base of clip and then snapping into clip at FLANGE SIDE.
- Press plug's barrel-shaped insert deep into LED light.
- Important: If plug is not inserted ALL THE WAY IN the LED light's orifice, the light may not energize. See "BAD" vs. "GOOD" insertion illustrations below-right.
- Turn LED light switch back on.



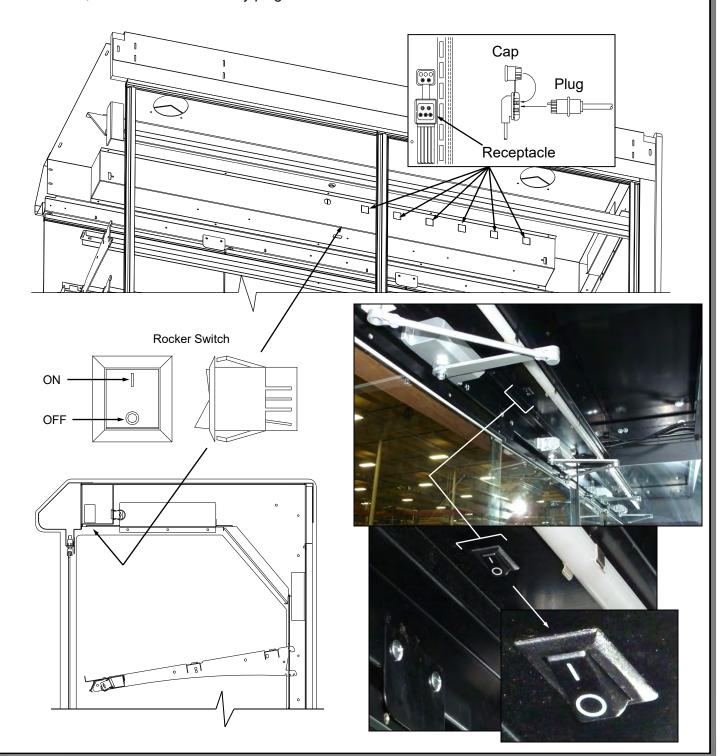


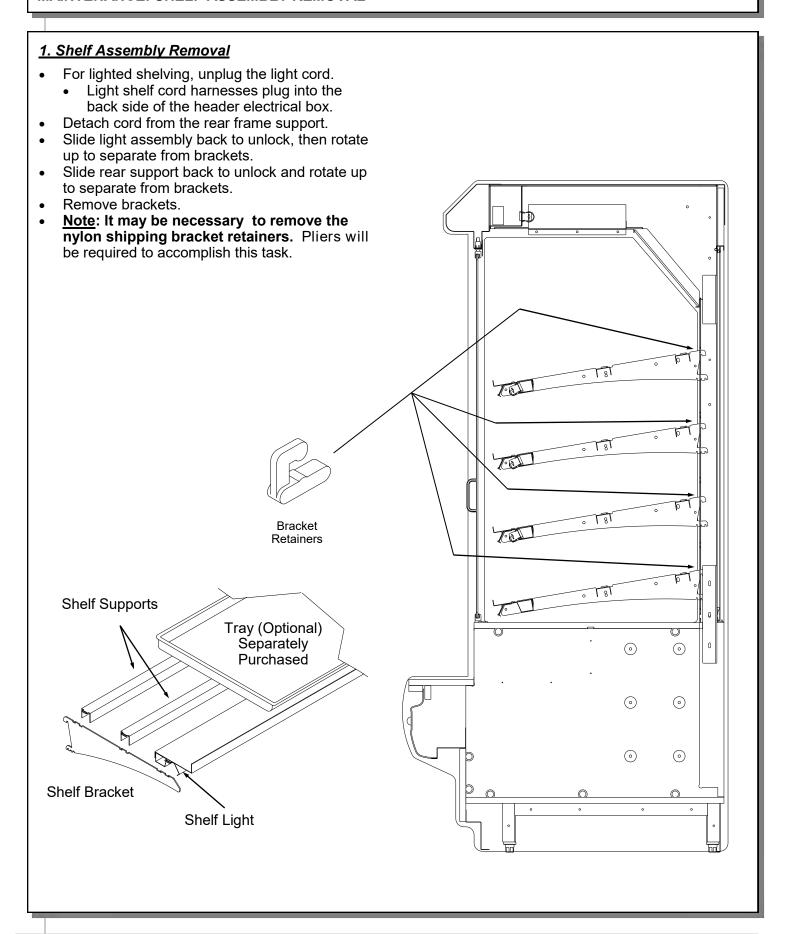


ELECTRICAL FUNDAMENTALS, CONTINUED: LIGHT SWITCH, RECEPTACLE AND PLUGS

5. Light Switch, Receptacles and Plugs

- Depending upon model, light switch may be located on electrical box (top center forward of bulbs). All of the lights should come on at the same time. First time lighting may require a short warm-up period.
- Initial dim or flickering bulbs is normal. If lights do not turn on, check all of the raceway plugs.
- Lighting is in series so all lights must be plugged in or receptacles capped for the case to light.
- <u>Note</u>: Illustration below may not reflect every feature or option of your particular case.



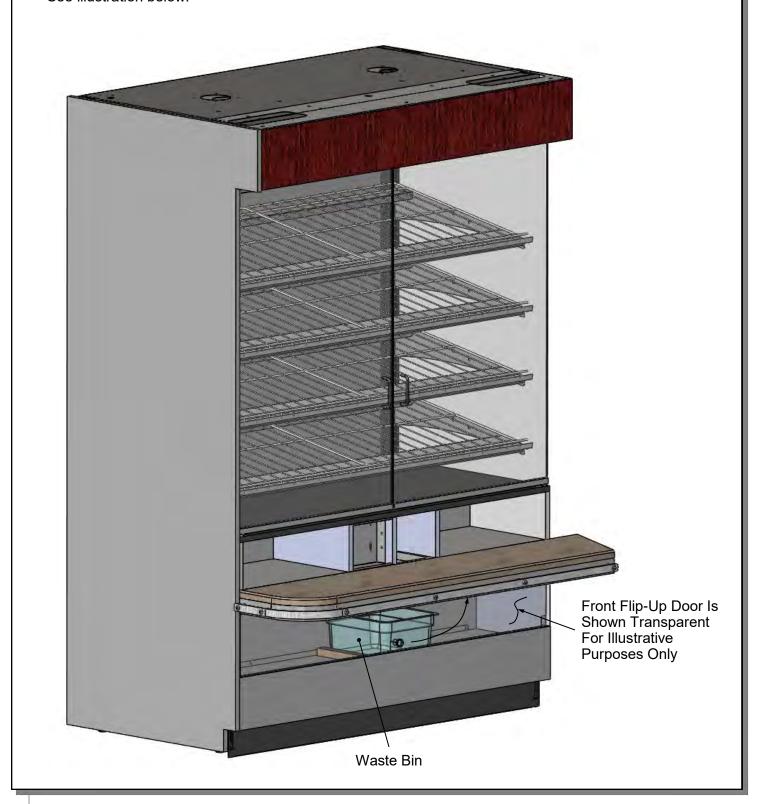


MAINTENANCE, CONT.: FRONT FLIP-UP DOOR / WASTE BIN ACCESS (CERTAIN MODELS ONLY)

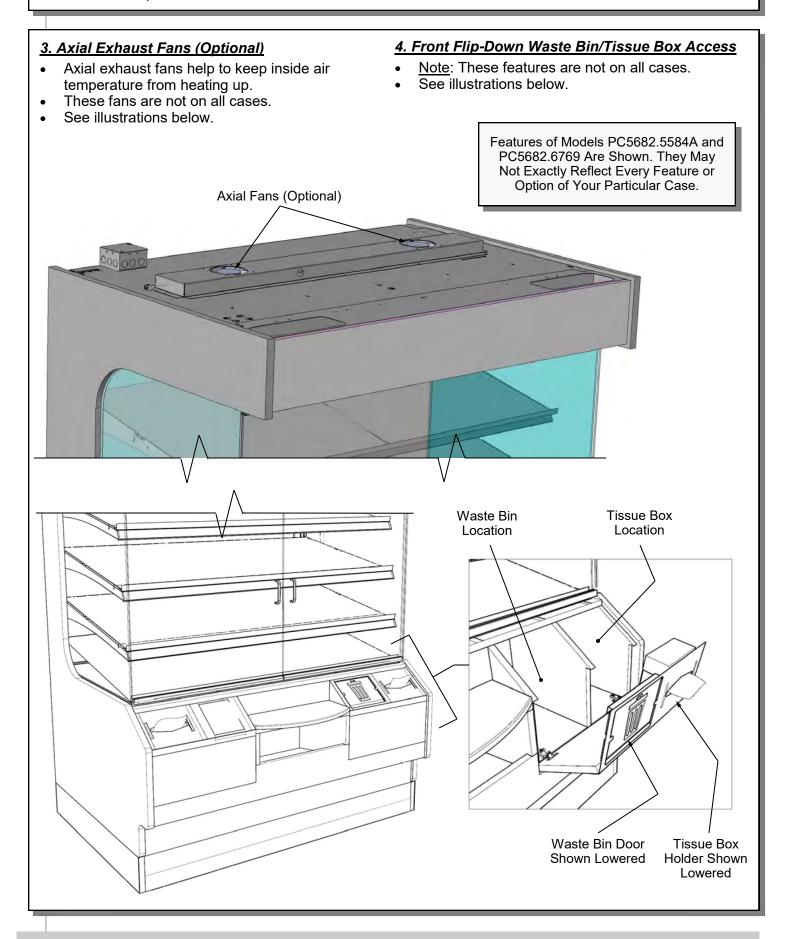
2. Front Flip-Up Door / Waste Bin Access

- Front flip-up door allows access to waste bin (and entire waste bin area).
- This feature is only on certain models.
- See illustration below.

Model PC5682.6744 Shown May Not Exactly Reflect Every Feature or Option of Your Particular Case.



MAINTENANCE, CONT.: AXIAL EXHAUST FANS / FLIP-DOWN WASTE BIN & TISSUE BIN ACCESS



GENERAL CLEANING

FREQUENCY	INSTRUCTIONS	
Daily	End Panels, Front Panel, Toe-Kicks, Etc.: Wipe off all surfaces with warm water and mild soap solution and non-abrasive cloth.	
Daily	Wood, Laminate and Painted Surfaces (Including Shelves): Clean with mild soap and water solution and a soft cloth.	
Daily	<u>Dupont™ Corian® Solid Surfaces</u> : See next page.	
Daily	Glass Doors and Angled Internal Mirror: Clean glass door surfaces with a household or commercial glass cleaner. Wipe dry with paper towel or soft cloth.	
Daily	 Wire Shelving Racks: Wipe down with warm water and mild soap solution and non-abrasive cloth. For hardened residue, remove from case. Submerse in warm soapy water. Use soft-bristled brush to dislodge caked on and hardened residue. Rinse. Wipe dry with paper towel or soft cloth. 	
Weekly	 Napkin Dispenser / Waste Bin Area: Napkin dispenser: Remove napkin box. Wipe down areas with warm water and mild soap solution and non-abrasive cloth. Wipe dry with paper towel or soft cloth. Waste bin area: Flip-up door, reach in and remove waste bin. Wipe down waste bin area with warm water and mild soap solution and non-abrasive cloth. Wipe dry with paper towel or soft cloth. See FRONT FUP-UP DOOR / WASTE BIN ACCESS (CERTAIN MODELS ONLY) section in this manual for illustration. 	
Quarterly	<u>Under Case Cleaning</u> : Remove front toe-kicks (screw removal is required). Use a broom or vacuum to remove dust and dirt that may collect at underside of case.	
Quarterly	 Axial Fans Atop Case (Optional) / Authorized Personnel Only Caution! Disconnect power to unit before proceeding! Wipe down areas around fan housing that can collect dust and debris. If fan design allows, wipe down fan blades that can collect dust and debris. Restore power to unit after performing this cleaning process. 	

DUPONT™ CORIAN® COUNTERTOP CLEANING & MAINTENANCE

Cleaning the Dupont™ Corian® Countertop	For Daily, Routine Cleaning: Use soapy water or ammonia based cleaner; rinse and wipe dry.
	For water marks: Wipe with damp cloth and wipe dry.
	For difficult residue:
	Spray residue with Deep Cleaner for Dupont™ Corian® from Stone Care Int'l®. Wait for about 30-seconds for cleaner to work. Wipe dry with paper towel. If residue persists, repeat process. If residue still persists, follow directions for removing scratches.
Properly Caring for the Dupont™ Corian® Countertop	 Preventing Heat Damage to Dupont™ Corian® Countertop: Corian® is an excellent material for heat resistance. As with all countertop materials, it is important to minimize direct heat exposure to protect your surface and investment. Use heat trivets or hot pads when placing hot objects on any surface.
	Preventing Chemical Damage to Corian® Countertop: Avoid exposing Corian® to strong chemicals, such as paint removers, oven cleaners, etc. If contact occurs, quickly flush the surface with water.
	 Removing Minor Cuts and Scratches on Corian® Countertop: Do not cut directly on Corian® Countertop Depending upon the severity of the scratches, Dupont® has specific "grit sanding pads" designed to smooth out most scratches. See Dupont's™ website for more "grit sanding pad" choices (color coded), rubbing directions, dealing with dust residue, achieving gloss levels, etc. Log on at http://www.dupont.com/corian for complete details.

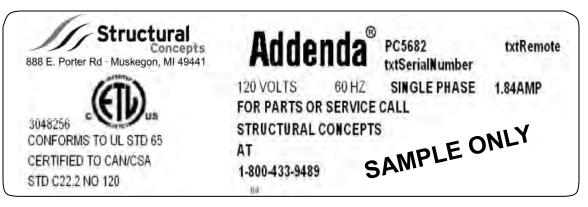
TROUBLESHOOTING

Product is Drying Out	Check the relative humidity in the store.
	Check that axial fans are properly functioning (optional).
System is not Operating	Verify that the utility power is on.
	Verify that the MAIN power/light switch is on.
	Check the circuit breaker box for tripped circuits.
	If used, verify that the unit is properly plugged in.
Case Lights Not Working	Be sure ALL lights are plugged in.
	Check bulbs for proper installation and connection. See <i>ELECTRICAL FUNDAMENTALS: T-8 / FLUORESCENT BULBS</i> or <i>ELECTRICAL FUNDAMENTALS: LED LAMPS</i> section in manual for specifics.
	Check for burned out bulbs.
	Clean dirt and dust from the bulbs to prevent flickering.
	After performing all other checkpoints, if lights are still not working, check for faulty ballast; this is to be performed by a certified electrician.

SERIAL LABEL LOCATION & INFORMATION LISTED / TECHNICAL INFO & SERVICE

Serial Label Location & Information Listed / Technical Information & Service

- Serial labels are located near the electrical access on your case.
- Serial labels contain electrical 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 image below for sample serial label.



---- Sample Serial Label -----

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.)

MITED WARRAN^{*}

Overview: All sales by Structural Concepts Corporation (hereafter referred to as "SCC") are subject to the following limited warranty. "Goods" refers to the product or products being sold by SCC.

Warranty Scope: Warranty is for equipment sold in the United States, Canada, Mexico and Puerto Rico. Equipment sold elsewhere may carry modified warranties.

Warranty; Remedies; Limitations: The limit of liability of SCC toward the exchange cost of the original compressor motor (and/or any other components) is one year parts and labor. If any Goods are found to be of faulty material or workmanship within one year of the original F.O.B. (free on board) unit shipment, SCC will, at its option (after inspection by an authorized representative), replace or pay the reasonable cost of replacement of the faulty Goods. If warranty claim is not made within this one year time period, SCC is not bound to warrant Goods. A motor-compressor (and/or any other components) replaced during the warranty shall not exceed manufacturer's current established wholesaler's exchange price. If replacement motor-compressor (and/or other components) is available via storage facility, parts truck, etc., SCC mandates that readily accessible replacement components be used toward repair of Goods; in such instances, SCC will replace such equipment (at its own expense) after confirmation of its use/placement on defective unit. SCC shall not be charged an additional fee, up-charge or expense for such replacement Goods. If SCC is unable to repair or replace the defective Goods, SCC shall sisue a credit to the Purchaser for full or partial purchase price, as SCC shall determine. The replacement or payment in the manner described above shall be the sole and exclusive remedy to Purchaser for a breach of this warranty. If any Goods are defective or fail to conform to this warranty, SCC will furnish instructions for their disposition. No Goods shall be returned to SCC without its prior consent.

SCC's liability for any defect in the Goods shall not exceed the purchase price of the Goods. SCC SHALL HAVE NO LIABILITY TO PURCHASER FOR CONSEQUENTIAL DAMAGES OF ANY KIND WHATSOEVER, INCLUDING, BUT NOT LIMITED TO, PERSONAL INJURY, PROPERTY DAMAGE, LOST PROFITS, OR OTHER ECONOMIC INJURY DUE TO ANY DEFECT IN THE GOODS OR ANY BREACH OF SCC, SCC SHALL NOT BE LIABLE TO THE PURCHASER IN TORT FOR ANY NEGLIGENT DESIGN OR MANUFACTURE OF THE GOODS, OR FOR THE OMISSION OF ANY WARNING THEREFROM.

SCC shall have no obligation or liability under this warranty for claims arising from any other party's (including Purchaser's) negligence or misuse of the Goods or environmental conditions. This warranty does not apply to any claim or damage arising for or cause by improper storage, handling, installation, maintenance, or from fire, flood, accidents, structural defects, building settlement or movement, acts of God, or other causes beyond SCC's control.

Except as expressly stated herein, SCC makes no warranty, express, implied, statutory or otherwise as to any parts or goods not manufactured by SCC. SCC shall warrant such parts or Goods only (I) against such defects, (II) for such periods of time, and (III) with such remedies, as are expressly warranted by the manufacturer of such parts of Goods. Notwithstanding the foregoing, any warranty with respect to such parts of Goods and any remedies available as a result of a breach thereof shall be subject to all of the procedures, limitations, and exclusions set forth herein.

THE WARRANTIES HEREIN ARE IN LIEU OF ALL WARRANTIES, EXPRESS, IMPLIED, STATUTORY, OR OTHERWISE. IN PARTICULAR, SCC MAKES NO WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

No representative, agent or dealer of SCC has authority to modify, expand, or extend this Warranty, to waive any of the limitations or exclusions, or to make any different or additional warranties with respect to Goods.

<u>Period of Limitations</u>: No claim, suit or other proceeding may be brought by Purchaser for any breach of the foregoing warranty or this Agreement by SCC or in any way arising out of this Agreement or relating to the Goods after one year from the date of the breach. In the interpretation of this limitation on action for a breach by SCC, it is expressly agreed that there are no warranties of future performance of the goods that would extend that period of limitation herein contained for bringing an action.

Indemnifications: Purchaser agrees to indemnify, hold harmless, and defend SCC if so requested, from any and all liabilities, as defined herein, suffered, or incurred by SCC as a result of, or in connection with, any act, omission, or use of the Goods by Purchaser, its employees or customers, or any breach of this Agreement by Purchaser. Liabilities shall include all costs, claims, damages, judgments, and expenses (including reasonable attorney fees and costs).

Remedies of SCC: SCC's rights and remedies shall be cumulative and may be exercised from time to time. In a proceeding or action relating to the breach of this Agreement by Purchaser, Purchaser shall reimburse SCC for reasonable costs and attorney's fees incurred by SCC. No waiver by SCC of any breach of Purchaser shall be effective unless in writing nor operate as a waiver of any other breach of the same term thereafter. SCC shall not lose any right because it has not exercised it in the past.

Applicable Law. This Agreement is made in Michigan; it is governed by and interpreted according to Michigan law. Any lawsuit arising out of this Agreement or the Goods may be handled by a federal or state court whose district includes Muskegon County, Michigan, and Purchaser consents that such court shall have personal jurisdiction over Purchaser.

LED Lighting Components Within Lighting System: Supermarket: 5-year LED warranty from date of shipment. Foodservice: 2-year LED warranty from date of shipment. After one year, warranty does not include labor or other costs incurred for diagnosing, repairing, removing, installing, shipping, servicing, or handling of either defective part or replacement parts. Remedy of repair or provision of a replacement part without charge shall be the exclusive remedy for any warranty claim. The replacement LED and/or power supply assumes the unused portion of warranty remaining on unit(s). A 90-day warranty will apply for any LED sold as a service part. Warranty claim must include serial and model number of unit as well as date code on defective LED lighting component(s). Manufacturer may request return of defective part(s) at customer's expense to initiate claim.

Glass Material: Glass (UV-bonded glass, glass sneeze guards, glass enclosures, glass held in place via posts, etc.) is only warranted to FIRST POINT OF DELIVERY

Miscellaneous: If any provision of this Agreement is found to be invalid or unenforceable under any law, the provision shall be ineffective to that extent and for the duration of the illegality, but the remaining provisions shall be unaffected. Purchaser shall not assign any of its rights are delicated and in the invalid or unenforceable under any law. the illegality, but the remaining provisions shall be unaffected. Purchaser shall not assign any of its rights nor delegate any of these obligations under this Agreement without prior written consent of SCC. This Agreement shall be binding upon and inure to the benefit of SCC and Purchaser and each of their legal representatives, successors and assignees. SCC warrants its products to be free of defects in materials and workmanship under normal use and service for a period of one (1) year from the date of delivery.

This warranty is extended only to the original purchaser for use of the Goods. It does not cover normal wear parts such as plastic tongs, tong holders, tong cables, bag holders, or acrylic dividers.

General Conditions: All service labor and/or parts charges are subject to approval by SCC. Contact Customer Service Dept. in writing, by phone, fax or email.

All claims must contain the following information: (1) model & serial code number of equipment; (2) the date and place of installation; (3) the name and address of the agency which performed the installation; (4) the date of the equipment failure; and (5) a complete description of the equipment failure and all circumstances relating to that failure.

Once the claim has been determined to be a true warranty claim by SCC's Customer Service Department, the following procedure will be taken: (1) replacement parts will be sent at no charge from SCC on a freight prepaid basis; (2) reimbursement for service labor will be paid if the following conditions have been met - (a) prior approval of service agency was awarded from the Customer Service Department; and (b) an itemized statement of all labor charges incurred is received by the Customer Service Department. The cost of the service labor reimbursement will be based on straight time rates and reasonable time for the repair of the defect.

If problems occur with any compressor, notify SCC's Customer Service Department immediately. Any attempt to repair or alter the unit without prior consent from the Customer Service Department will render any warranty claim null and void. This warranty and protection plan does not apply to any condensing unit or any part thereof which has been subject to accident, negligence, misuse, or abuse, or which has not been operated in accordance with the manufacturer's recommendations or if the serial number of the unit has been altered, defaced, or removed.

One Year Limit of Liability: After SCC's one-year parts and labor warranty on the original F.O.B. (free on board) unit has expired, SCC is not liable for either the equipment or labor costs of repairing or replacing the motor compressor, nor any other components that were included in the original F.O.B. (free on board) unit.