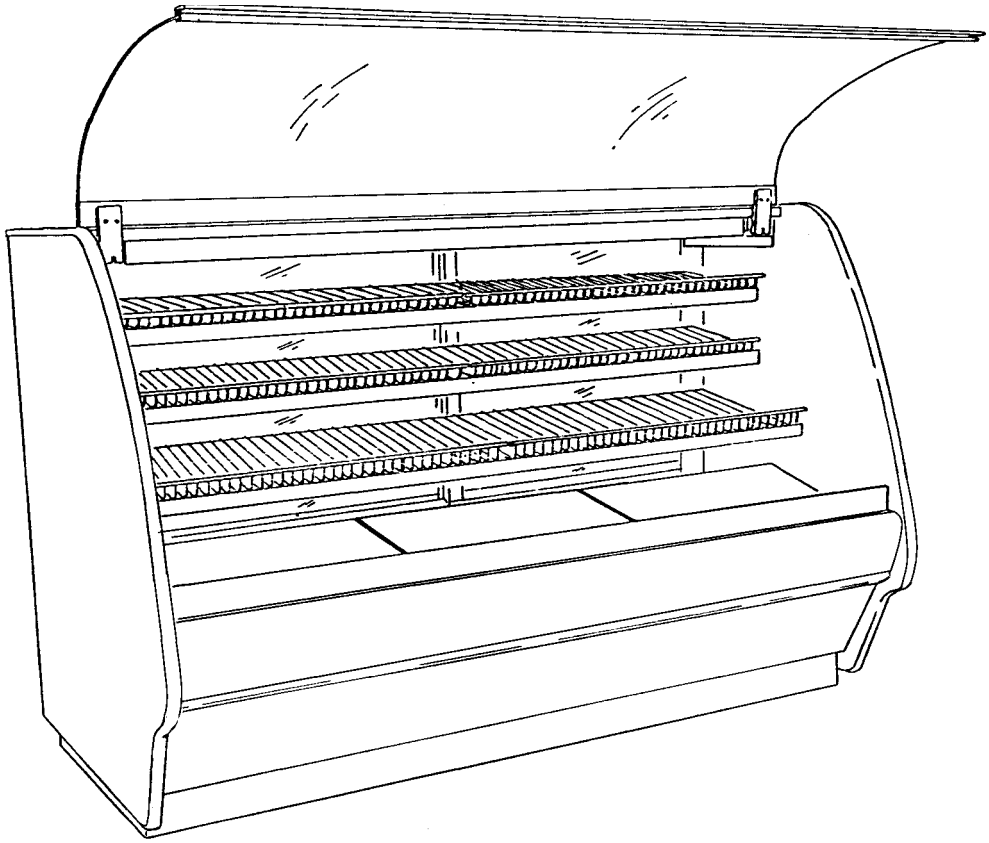
TYLER

series Advantage

Installation & Service Manual



LLBR, LLBN, LLBS

LIFT FRONT CURVED GLASS BAKERY MERCHANDISERS

Medium Temperature and Non-Refrigerated Bakery Display Cases

This manual has been designed to be used in conjunction with the General Installation & Service Manual.

Save the Instructions in Both Manuals for Future Reference!!

This merchandiser conforms to the Commercial Refrigeration Manufacturers Association Health and Sanitation standard CRS-S1-96.

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Tyler Refrigeration Corporation * Niles, Michigan 49120

CONTENTS

The following Medium Temperature (Remote & Self-Contained) and Non-Refrigerated Lift Front Glass Bakery Merchandiser models are covered in this manual:

MODEL	DESCRIPTION
LLBR	**59” & 77” LIFT FRONT GLASS REMOTE OPERATED BAKERY MERCHANDISER**
LLBN	**59” & 77” LIFT FRONT GLASS NON-REFRIGERATED BAKERY MERCHANDISER**
LLBS	**59” & 77” LIFT FRONT GLASS SELF-CONTAINED BAKERY MERCHANDISER**

SPECIFICATIONS

LLBR/LLBN/LLBS Lift Front Glass Service Merchandiser Specification Sheets

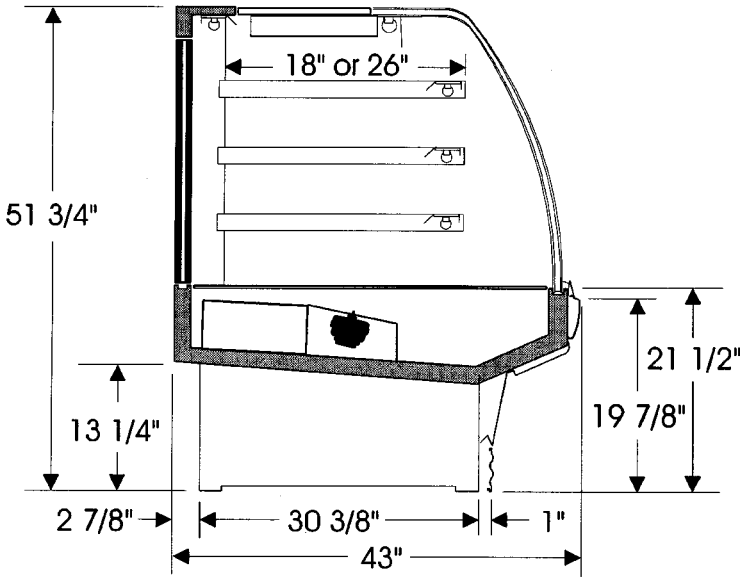
MODEL	LLB-59	LLB-77
USAGE	BAKERY	BAKERY
BTUH/CASE	1260	1570
SUCTION°	+20F	+20F
ENTER AIR°	+35F	+35F

NOTE: FOR COMPRESSOR SIZING INFORMATION REFER TO THE "GOLD" SECTION & FOR LINE SIZING INFORMATION REFER TO THE "BUFF" SECTION OF THE TYLER SPECIFICATION GUIDE.

THE ABOVE RATINGS ARE FOR COMPRESSOR SELECTION ONLY. FOR ENERGY CALCULATION DATA REFER TO THE ENERGY SECTION.

DATA BASED ON: Store Temperature of 75°F & 55% Relative Humidity

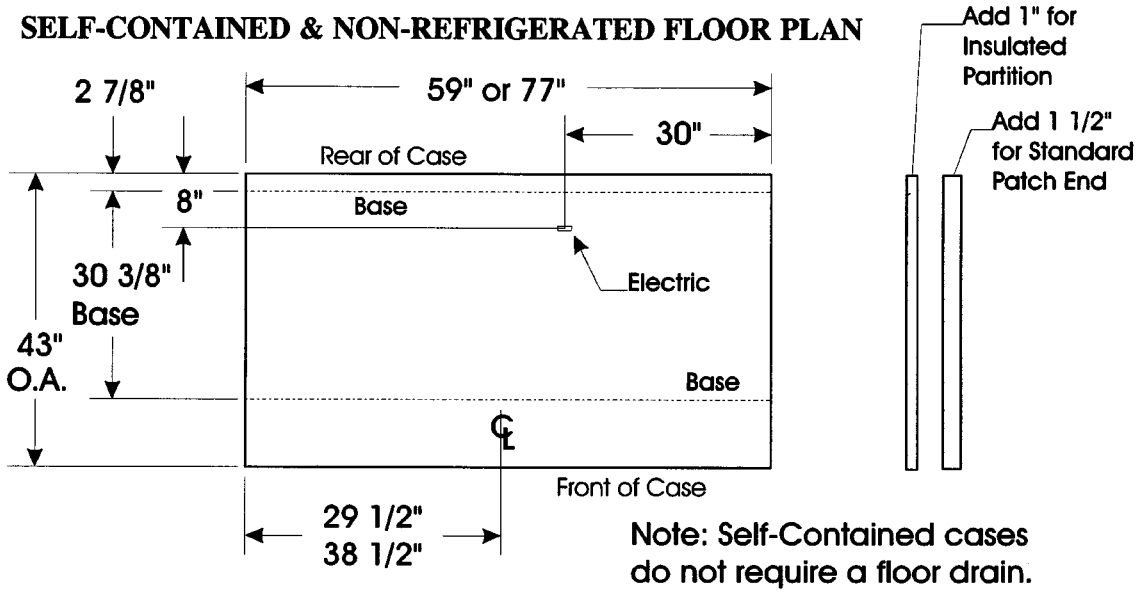
DEFROST CONTROL			PRESSURE SETTING		EPR SETTINGS	
PER DAY	MODE	TIME	CUT IN	CUT OUT	R22	R404A
1	OFF CYCLE	45 MIN.	63-65# @ R22	40-45# @ R22	43	---
			78-81# @ R404A	51-58# @ R404A	---	55

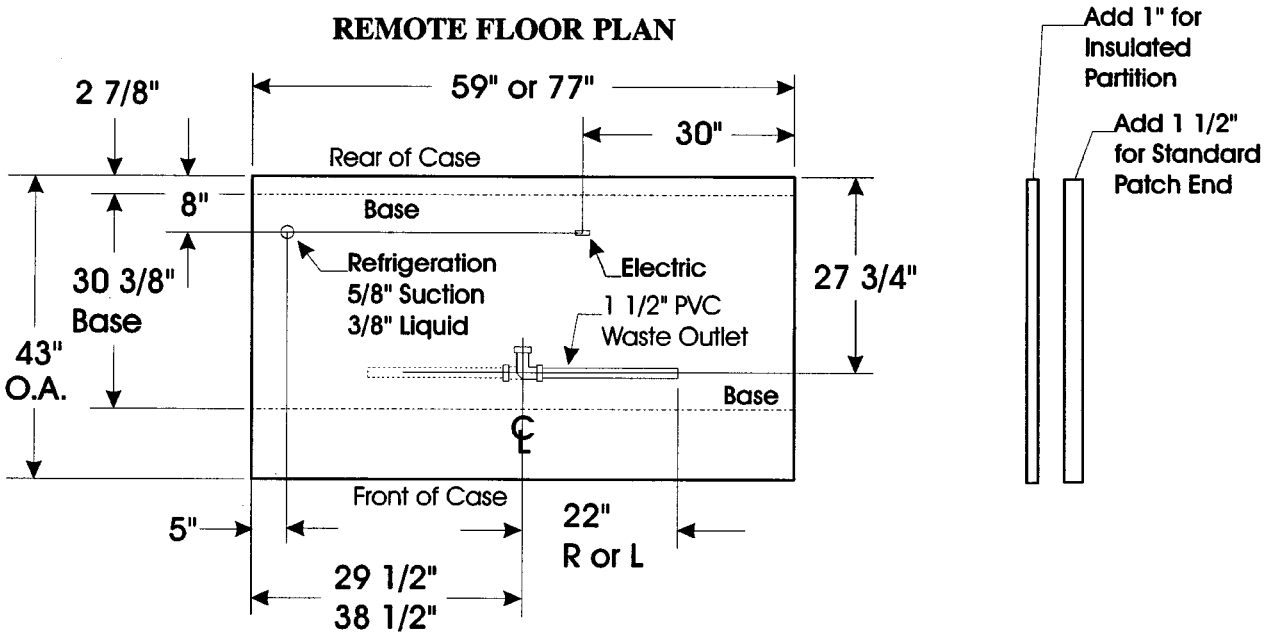


120 VOLT ELECTRICAL DATA (AMPS)			
MODEL	FANS	LIGHTS	CONDENSING UNIT LLBS
LLBS/R 59	1.6	1.66	7.8
LLBS/R 77	2.0	3.0	

TYPICAL CASE-TO-CASE LINEUP					
CASES			FAM AMPS	LIGHT AMPS	BTUH
59"	77"	LGTH			
2	---	118"	3.0	3.32	2520
1	1	136"	3.6	4.66	2830
---	2	154"	4.0	6.00	3140

LLBR/LLBN/LLBS Lift Front Glass Service Merchandiser



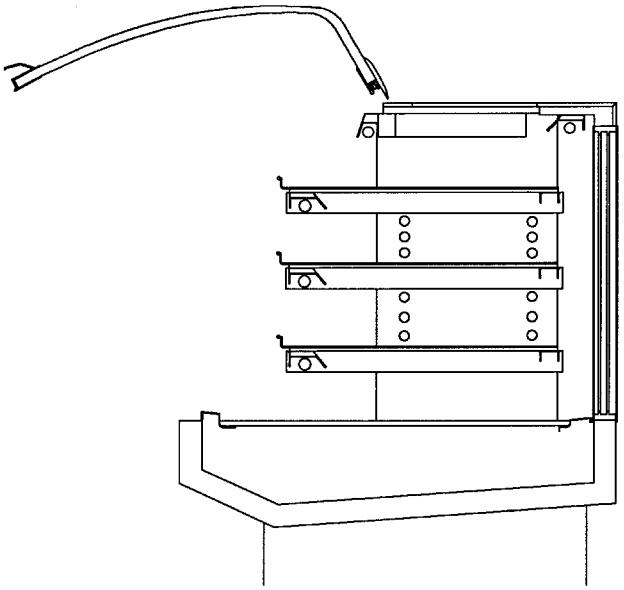


INSTALLATION PROCEDURES

WARNING

The raised front glass projects in front of the case and could cause personal injury to workers, operators and/or customers.

- **Do not remove orange warning tags from front edge of lift glass.**
- **Do not leave lift glass raised and unattended.**
- **Know where the front edge of the raised glass is when working near it.**



This case is designed so the front glass can be raised for cleaning and merchandising only. It is recommended that any cleaning or merchandising be done when the store is closed. If this is not possible, it should be done at a time when customer traffic is low.

The raised glass should not be left unattended and should be lowered whenever leaving the case.

The glass front is marked with orange warning tags to make it noticeable when in the raised position. **Do not remove the orange warning tags.**

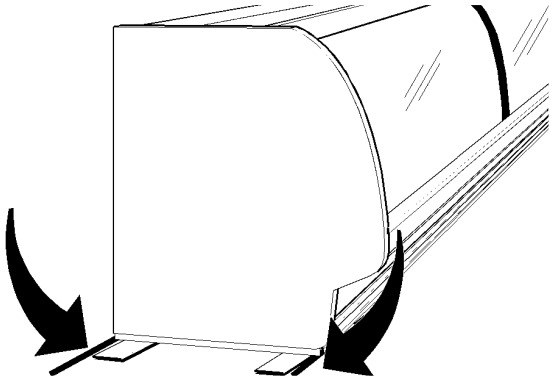
Carpentry Procedures

Case Line-Up

Before starting the case line-up, review the store layout floorplans and survey the areas where case line-ups are going to be installed.

WARNING

These cases are very heavy and require two or more people to move and/or position them. Improper handling of these cases could result in personal injury.



1. Snap chalk lines where the front and rear base rails of the case are to be located for the entire line-up.

NOTE

Front and rear edges of base rails should always be used to line-up cases. 6" shims allow adjoining ends of cases to be shimmed together.

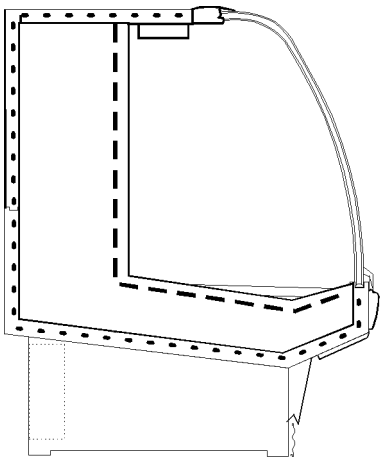
2. Locate highest point on chalk lines as a reference for determining the number of shims to be placed under the case base rails. Position first case at highest point on the chalk lines and shim case supports as required. Check leveling across the top of the case and on top of the color band.

CAUTION

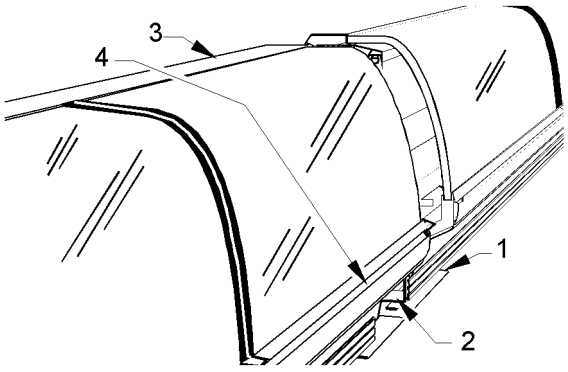
If the base of this case is not sitting evenly on the floor, the case could warp when loaded and possibly break the lift glass.

NOTE

A foam gasket is factory installed on one end of the case. This gasket fits into a groove on the adjoining case when cases are pulled together. Do not depend on the foam gasket alone to make a good seal!



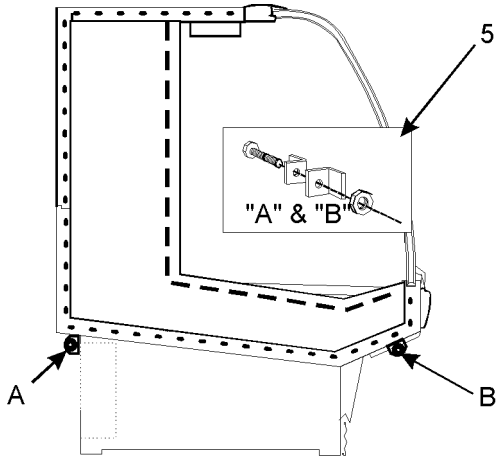
3. Apply two heavy beads of caulking compound from the Filler Kit to the end of case at dotted (. . .) and dashed (- - -) lines. Proper caulking provides good case refrigeration and sanitation.
4. Remove shipping tape from color band backer and bumper backer.



5. Push cases tightly together making sure the pull-ups are aligned.
6. Add shims (1), as required, under the adjoining case base rails (2). Check leveling at top of the case (3) and on top of the color band (4).

CAUTION

Do not drill or use other holes through the case end for pull-ups. This may deform the case end and could cause joint leaks and/or poor refrigeration.



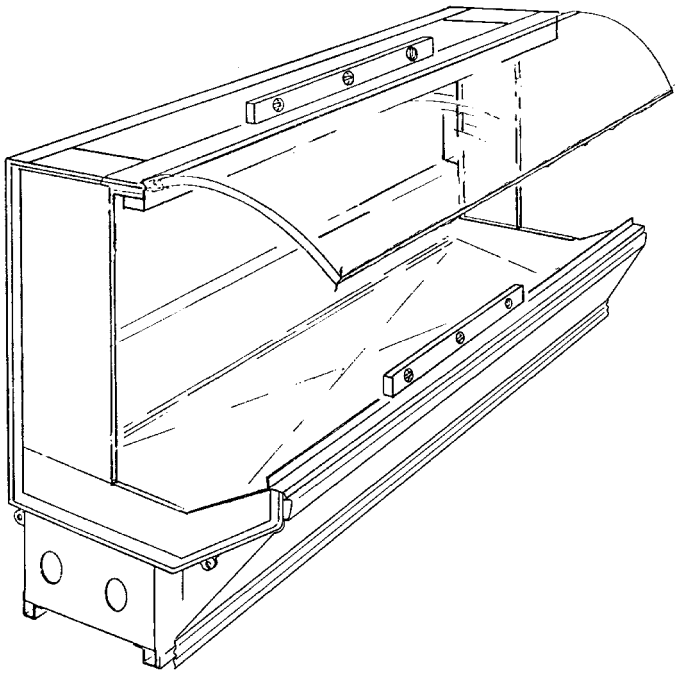
7. Position pull-up bolts and mounting hardware (5) at pull-up locations (A and B). Do not tighten any pull-up hardware until all of it has been installed. Tighten all pull-up hardware equally starting at point A and finishing at point B. **Do not overtighten.**

Lift Front Glass Leveling Instructions

Accurate leveling is critical for the proper operation of the lift glass on this case.

In some instances, setting the case on an apparently level floor can cause the lift glass to fit improperly. If there is any twist in the body, it could cause the lift glass not to fit or work properly.

The emphasis when leveling this case must be on making sure the lift glass works and seals properly.



The case should be leveled across the top, close to the hinge, and on the color band. A 4 foot level is recommended, and **both places should be level!** This will enable the lift glass to fit and work properly.

If the lift glass still doesn't close or line-up properly, add shims to case corners. Shimming will ensure proper operation and alignment of the lift glass.

The handle on the lift glass must rest evenly on the color band. Proper lift glass sealing is essential for good product refrigeration.

NOTE

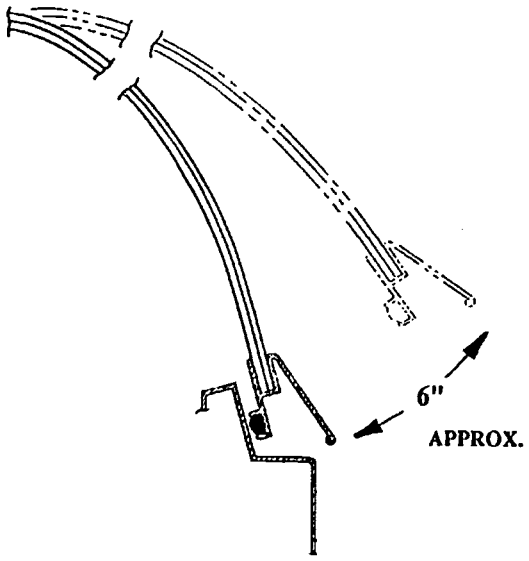
Do not anchor the base to the floor or enclose the case until the lift glass is fitting properly and working correctly.

Pre-priming the hinge gas cylinders:

WARNING

If the front glass is raised before the hinge gas cylinders are pre-primed, the glass could break and/or cause personal injury.

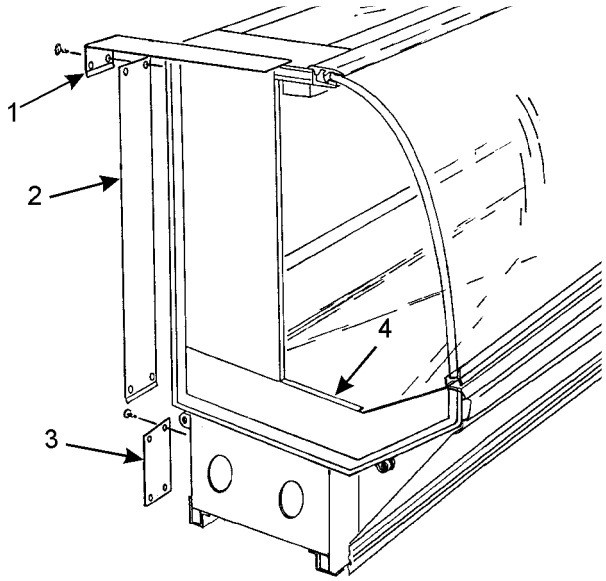
After the case has been installed and leveled, make sure the shipping braces have been removed. Pre-prime the cylinders by gently lifting the front glass approximately 6", then close. Repeat this movement at least 4 or 5 times before fully opening the lift glass.



NOTE

If the glass does not stay in the open position, see "Lift Glass Cylinder Replacement" in this manual.

Trim Installation



The joint trim and mounting hardware are shipped loose. Trim includes top joint trim (1), rear upper joint trim (2), rear base joint trim (3) and horizontal joint trim (4).

Horizontal joint trim covers gaps between the cases. The trim is glued onto the shipping cardboard. It is applied after running beads of caulking on the edges of the cases. Sheet metal screws or pop-rivets can be used for additional securing.

Patch end trim is shipped factory installed. If field installation is required, be sure the patch end is pulled up enough to fit snuggly against the sealing tubing on the inside of the case. The patch end must seal tightly against the lift glass wiper to ensure proper operating temperatures.

See "General I&S Manual" for bumper and color band installation and alignment.

Refrigeration Procedures

Refrigeration system and superheat instructions can be found in the "General I&S Manual".

Self-Contained Circuit (LLBS Only)

LLBS cases are self-contained units. Information pertaining to self-contained units should be obtained directly from TYLER Refrigeration.

Electrical Procedures

Electrical Considerations

CAUTION

Make sure all electrical connections at components and terminal blocks are tight. This prevents burning of electrical terminals and/or premature component failure.

NOTE

The ballast box is located at the lower left rear corner of the case. It houses ballasts and terminal blocks.

Case Fan Circuit (LLBR/LLBS)

This circuit is to be supplied by an uninterrupted, protected 120V circuit. The case fan circuit is not cycled on this case.

Fluorescent Lamp Circuit

LLB(R/N/S) case lighting is supplied by 200MA T-6 lights. It is controlled by a light switch in each case. The standard lighting is 2 rows of horizontal canopy lights.

Defrost Information

See "General I&S Manual" for operational descriptions for each type of defrost control.

Defrost Control Chart

LLBR/LLBS Defrost Option Settings

Defrost Type	Defrosts Per Day	Defrost Duration (Min)	Term. Temp.
Off Time	1	45	-----

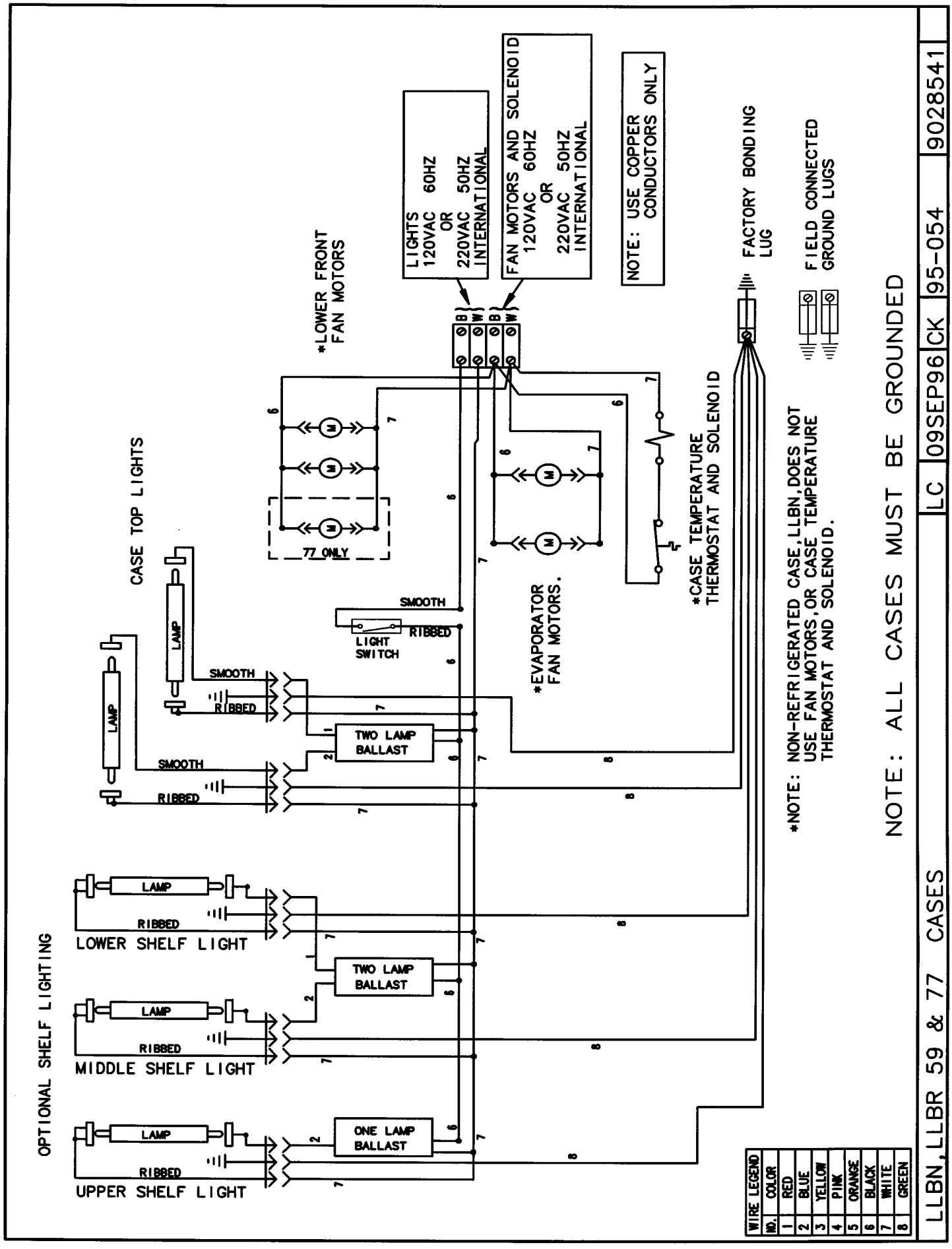
Thermostat bulb is located under the rear duct, 24" from the right end of the evaporator coil.

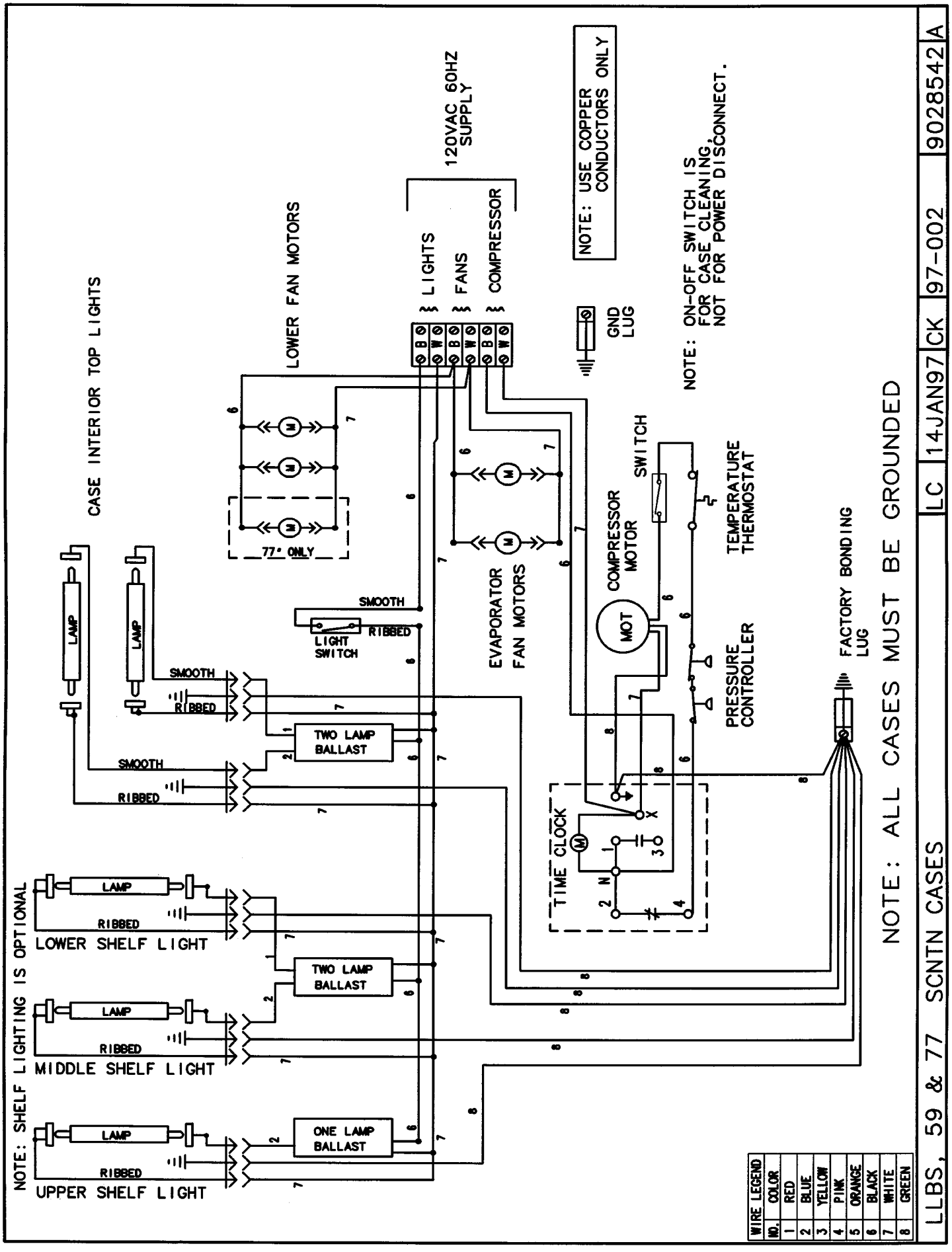
WIRING DIAGRAMS

ELECTRICIAN NOTE - OVERCURRENT PROTECTION

120V circuits should be protected by 15 or 20 Amp devices per the requirements noted on the cabinet nameplate or the National Electrical Code, Canadian Electrical Code - Part 1, Section 28. 208V defrost circuits employ No. 12 AWG field wire leads for field connections. On remote cases intended for end to end line-ups, bonding for ground may rely upon the pull-up bolts.

The following pages 10 and 11 show wiring diagrams for case and lighting circuits


LLBN, LLBR 59 & 77 CASES
LC 09SEP96 CK 95-054 9028541
NOTE: ALL CASES MUST BE GROUNDED
*NOTE: NON-REFRIGERATED CASE, LLBN, DOES NOT USE FAN MOTORS, OR CASE TEMPERATURE THERMOSTAT AND SOLENOID.
FIELD CONNECTED GROUND LUGS
FACTORY BONDING LUG
NOTE: USE COPPER CONDUCTORS ONLY
LIGHTS 120VAC 60HZ OR 220VAC 50HZ INTERNATIONAL
FAN MOTORS AND SOLENOID 120VAC 60HZ OR 220VAC 50HZ INTERNATIONAL
*LOWER FRONT FAN MOTORS
*CASE TEMPERATURE THERMOSTAT AND SOLENOID
*EVAPORATOR FAN MOTORS.
77 ONLY
CASE TOP LIGHTS
LIGHT SWITCH
SMOOTH
RIBBED
LAMP
TWO LAMP BALLAST
ONE LAMP BALLAST
OPTIONAL SHELF LIGHTING
LOWER SHELF LIGHT
MIDDLE SHELF LIGHT
UPPER SHELF LIGHT
WIRE LEGEND
NO. COLOR
1 RED
2 BLUE
3 YELLOW
4 PINK
5 ORANGE
6 BLACK
7 WHITE
8 GREEN


LLBS, 59 & 77 SCNTN CASES
LC 14JAN97 CK 97-002 9028542 A
NOTE: ALL CASES MUST BE GROUNDED
NOTE: SHELF LIGHTING IS OPTIONAL
CASE INTERIOR TOP LIGHTS
LOWER FAN MOTORS
120VAC 60HZ SUPPLY
LIGHTS
FANS
COMPRESSOR
NOTE: USE COPPER CONDUCTORS ONLY
GND LUG
NOTE: ON-OFF SWITCH IS FOR CASE CLEANING, NOT FOR POWER DISCONNECT.
77" ONLY
EVAPORATOR FAN MOTORS
COMPRESSOR MOTOR
SWITCH
TEMPERATURE THERMOSTAT
PRESSURE CONTROLLER
FACTORY BONDING LUG
TIME CLOCK
LIGHT SWITCH
SMOOTH
RIBBED
LAMP
TWO LAMP BALLAST
ONE LAMP BALLAST
LOWER SHELF LIGHT
MIDDLE SHELF LIGHT
UPPER SHELF LIGHT
WIRE LEGEND
NO. COLOR
1 RED
2 BLUE
3 YELLOW
4 PINK
5 ORANGE
6 BLACK
7 WHITE
8 GREEN

CLEANING INSTRUCTIONS

WARNING

TYLER Refrigeration does not recommend the use of high pressure cleaning equipment on service style cases!! The sealing of front glass and end joints is critical in these cases and high pressure cleaners can penetrate and/or damage these seals. Damaged seals allow water leaks and/or air leaks that can cause poor case refrigeration.

CAUTION

- **When cleaning this case, try not to introduce water into the case faster than it can be carried away by the waste outlet.**
- **Always use a soft cloth or sponge with mild detergent and water to clean the front glass. Never use abrasives or scouring pads to clean glass. They can scratch and/or damage the glass.**

See "General I&S Manual" for case cleaning instructions. Stainless steel cleaning is covered in the following chart.

Stainless Steel Cleaning Methods

The cleaning data in the following stainless steel cleaning chart was supplied by AISI. The information was supplied by Prime Metals Division, Alumax Aluminum Corporation.

TYPE OF CLEANING	CLEANING AGENT*	APPLICATION METHOD**	EFFECT ON FINISH
Routine cleaning	Soap, ammonia or detergent and water.	Sponge with cloth, then rinse with clear water and wipe dry.	Satisfactory for use on all finishes.
Smears and fingerprints	Arcal 20, Lac-O-Nu, Lumin Wash O'Cedar Cream Polish, Stainless Shine	Rub with cloth as directed on the package.	Satisfactory for use on all finishes. Provides barrier film
Stubborn spots and stains, baked-on splatter, and other light discolorations	Allchem Concentrated Cleaner	Apply with damp sponge or cloth.	Satisfactory for use on all finishes.
	Samae, Twinkle, or Cameo Copper Cleaner	Rub with damp cloth.	Satisfactory for use on all finishes if rubbing is light.
	Grade FFF Italian pumice, whiting or talc	Rub with damp cloth.	Use in direction of polish lines on No. 4 (polished) finish. May scratch No. 2 (mill) and No. 7 and 8 (polished) finishes.
	Liquid NuSteel	Rub with dry cloth. Use a small amount of cleaner.	Use in direction of polish lines on No. 4 (polished) finish. May scratch No. 2 (mill) and No. 7 and 8 (polished) finishes.
	Paste NuSteel or DuBois Temp	Rub with dry cloth. Use a small amount of cleaner.	Use in direction of polish lines on No. 4 (polished) finish. May scratch No. 2 (mill) and No. 7 and 8 (polished) finishes.
	Cooper's Stainless Steel Cleaner, Revere Stainless Steel Cleaner	Apply with damp sponge or. cloth.	Use in direction of polish lines on No. 4 (polished) finish. May scratch No. 2 (mill) and No. 7 and 8 (polished) finishes.
	Household cleaners (Old Dutch, Lighthouse, Sunbrite, Wyandotte, Bab-O, Gold Dust, Sapolio, Bon Ami, Ajax or Comet.)	Rub with a damp cloth. May contain chlorine bleaches. Rinse thoroughly after use. Bleaches, left on surfaces, may lead to corrosion.	Use in direction of polish lines on No. 4 (polished) finish. May scratch No. 2 (mill) and No. 7 and 8 (polished) finishes.

TYPE OF CLEANING	CLEANING AGENT*	APPLICATION METHOD**	EFFECT ON FINISH
	Grade F Italian pumice, Steel Bright, Lumin Cleaner, Zud, Restoro, Bon Ami, Ajax or Comet	Rub with a damp cloth.	Use in direction of polish lines on No. 4 (polished) finish. May scratch No. 2 (mill) and No. 7 and 8 (polished) finishes.
	Penny-Brite or Copper-Brite	Rub with a dry cloth. Use a small amount of cleaner.	Use in direction of polish lines on No. 4 (polished) finish. May scratch No. 2 (mill) and No. 7 and 8 (polished) finishes.
Heat tint or heavy discoloration	Penny-Brite or Copper-Brite	Rub with a dry cloth.	Use in direction of polish lines on No. 4 (polished) finish. May scratch No. 2 (mill) and No. 7 and 8 (polished) finishes.
	Paste NuSteel or DuBois Temp	Rub with dry cloth. Use a small amount of cleaner.	Use in direction of polish lines on No. 4 (polished) finish. May scratch No. 2 (mill) and No. 7 and 8 (polished) finishes.
	Revere Stainless Steel Cleaner	Apply with a damp sponge or cloth.	Use in direction of polish lines on No. 4 (polished) finish. May scratch No. 2 (mill) and No. 7 and 8 (polished) finishes.
	Allen Polish, Steel Bright, Wyandotte, Bab-O or Zud	Rub with a damp cloth.	Use in direction of polish lines on No. 4 (polished) finish. May scratch No. 2 (mill) and No. 7 and 8 (polished) finishes.
Burnt-on foods and grease, fatty acids, milkstone (where swabbing or rubbing is not practical)	Easy-Off, De-Grease-It, 4-6% hot solution of such agents as trisodium tripolyphospate, or 5-15% caustic soda solution	Apply generous coating. Allow to stand for 10-15 min. Repeated application may be necessary.	Excellent removal, satisfactory for use on all finishes.
Tenacious deposits, rusty discolorations, industrial atmospheric stains	Oakite No. 33, Dilac, Texo 12, Texo N.Y., Flash-Klenz, Caddy Cleaner, Turco Scale 4368 or Permag 57.	Swab and soak with clean cloth. Let stand 15 minutes or more according to directions on package. Rinse and dry.	Satisfactory for use on all finishes.
Hard water spots and scale	Vinegar	Swab or wipe with a cloth. Rinse with water and dry.	Satisfactory for use on all finishes.
	5% oxalic acid, 5% sulamic acid, 5-10% phospheric acid, or Dilac, Oakite No. 33, Texo 12 or Texo N.Y.	Swab or soak with a cloth. Let stand 10-15 minutes. Always follow with neutralizer rinse, and dry.	Satisfactory for use on all finshes. Effective on tenacious deposites or where scale has built up.
Grease and oil	Organic solvents such as carbon tetrachloride, trichlorethylene, acetone, kerosene, gasoline, benzene, alcohol and chlorethane n.u.	Rub with a cloth. Organic solvents may be flammable and/or toxic. **Observe all precautions against fire. Do not smoke while vapors are present. Be sure area is well ventilated.**	Satisfactory for use on all finishes.

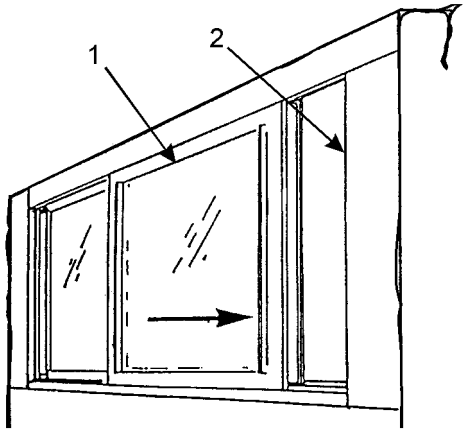
*** Use of proprietary names is intended only to indicate a type of cleaner, and does not constitute an endorsement, nor is omission of any proprietary cleanser to imply its inadequacy. It should be emphasized that all products should be used in strict accordance with instructions on package.**

**** In all applications a stainless steel wool or sponge or fibrous brush or pad are recommended. Avoid use of ordinary steel wool or steel brushes for scouring stainless steel.**

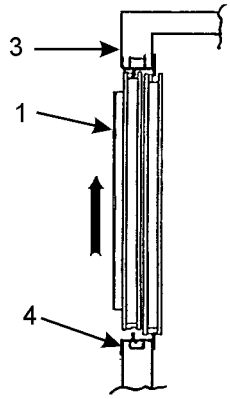
GENERAL INFORMATION

Rear Sliding Door Removal and Installation

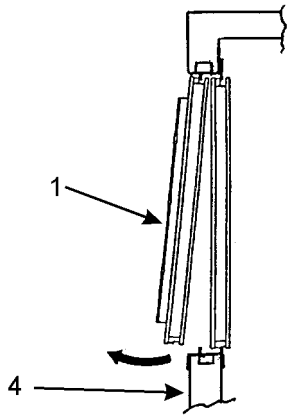
The sliding doors come installed from the factory in the door frame. These doors are removable for cleaning and to aid in case maintenance. **NOTE: DO NOT FULLY IMMERSE DOORS WHEN CLEANING**. The inner and outer doors are marked with labels from the factory. If the doors are not labeled, the inner door can be identified as having the limiter stops on it.



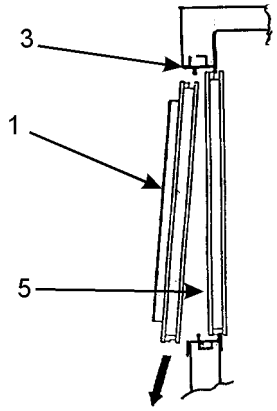
1. Remove the outer door (1) by sliding it to the right end of the door frame (2) (within an inch of being closed).



2. Firmly grasp both sides of the outer door (1) and lift into the upper track (3) until it clears the lower track (4).



3. Tilt out the bottom of the outer door (1) so it can clear the lower track (4).



4. Lower the outer door (1) out of the upper track (3) to remove it from the case.
5. Repeat steps 1 thru 4 to remove the inner door (5).
6. Reverse the above steps to replace the inner and outer doors (5 and 1).

SERVICE INSTRUCTIONS

Troubleshooting Self-Contained Units (LLBS Only)

WARNING

Never work on electrically powered equipment while it is energized! Electrical shock could cause personal injury and/or death.

TROUBLE	COMMON CAUSE	REMEDY
1. Unit will not run	Blown fuse	Replace fuse.
	Low voltage	Check outlet with voltmeter. Voltage should be 115V or 220V (±10%).
	Inoperative motor or temperature control	Check connections.
2. Refrigerated section is too warm	Shelves overloaded; blocked air flow	Make sure items do not block the air flow.
	Thermostat set incorrectly	Check setting.
	Pressure control set incorrectly	Check setting.
	Case fans not operating	Check terminal block connections.
3. Refrigerated section too cold	Thermostat set incorrectly	Check setting.
	Pressure control set incorrectly	Check setting.
4. Unit runs all the time	Inadequate air circulation	Relocate cabinet or remove obstruction. Check installation requirements.
	Room temperature too warm	Ventilate room appropriately.
	Thermostat set incorrectly	Reset thermostat.
	Refrigerant charge low	Have unit serviced by a qualified service technician.
5. Noisy operation	Loose baffles	Tighten or brace baffles.
	Tubing contacting cabinet or other tubing	Move tubing.
	Cabinet not level	Level cabinet.
6. Frost or ice on evaporator coil	Defrost clock doesn't work	Check electrical conections. Have unit serviced by a qualified service technician.
7. Water dripping from case drain	Condensate drain clogged	Clear drain.
	Dissipator not functioning	Check electrical supply. Check float assembly.

Light Servicing

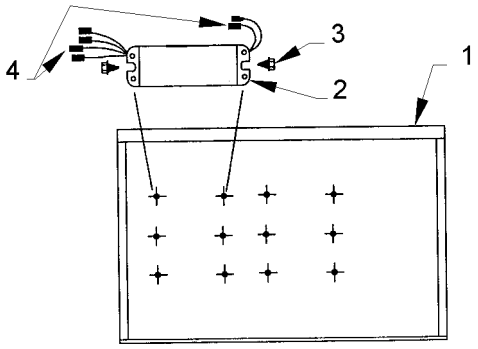
See "General I&S Manual" for lamp, fan blade and motor (LLBR/LLBS only), and color band and bumper replacement instructions.

Ballast and Lighting Locations

All light ballasts are located in the electric box on the left end of the rear of the case.

In order to retain safety approval with Underwriters Laboratory and the Canadian Standards Association, the mounting of electrical components and interconnecting wires must not deviate from the following instructions. Only qualified personnel are authorized to install the accessory items. TYLER Refrigeration recommends you order all component parts from its Service Parts Department.

Ballast Installation



1. Remove cover from electric box (1) located on the left rear side of the case.

NOTE

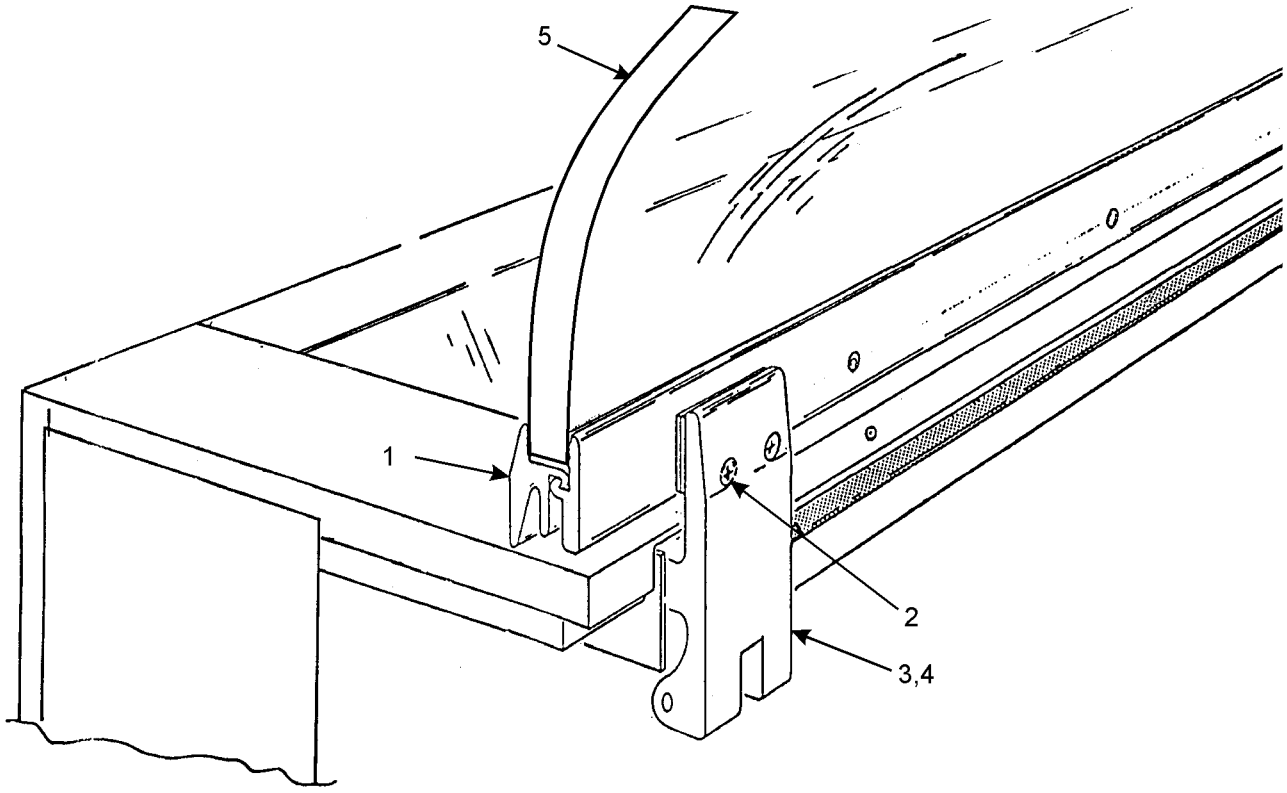
If tappit screws are not available, a star-washer should be used between the ballast and the heads of the screws.

2. Install required number of ballasts (2) in electric box (1) with two screws (3) each.
3. Identify and connect required wiring harnesses (upper, lower, etc...) to the ballast connectors (4).
4. Replace cover on electric box (1).

Lift Glass Replacement

WARNING

Wear safety glasses and gloves and use at least two people when replacing glass. Glass is heavy and weight distribution is uneven. Mishandling of glass could cause breakage and/or personal injury.



1. Make sure the lift glass is in the fully open position or the glass frame clamp (1) is in the up position.
2. While holding glass, remove four screws (2) from hinges (3), shims (4) and glass frame clamp (1).
3. Replace broken lift glass assembly (5) with new lift glass assembly (5). Make sure to replace the shims that were removed during disassembly..
4. Install four screws (2) in hinges (3) and glass frame clamp (1). Tighten each hinge screw (2) to 60 lb-in. of torque. **Do not overtighten.**
5. Check torque of glass frame clamp setscrews. It should be pre-torqued to 48 lb-in. **Do not overtighten.**

NOTE

Lift glass must seal tightly to ensure proper operating temperatures! Replacement seals are available through TYLER Service Parts.

6. After the lift glass has been replaced, install the end seal trim following the instructions on page 19. Close the lift glass. Make sure the lift glass seals tightly against the color band.

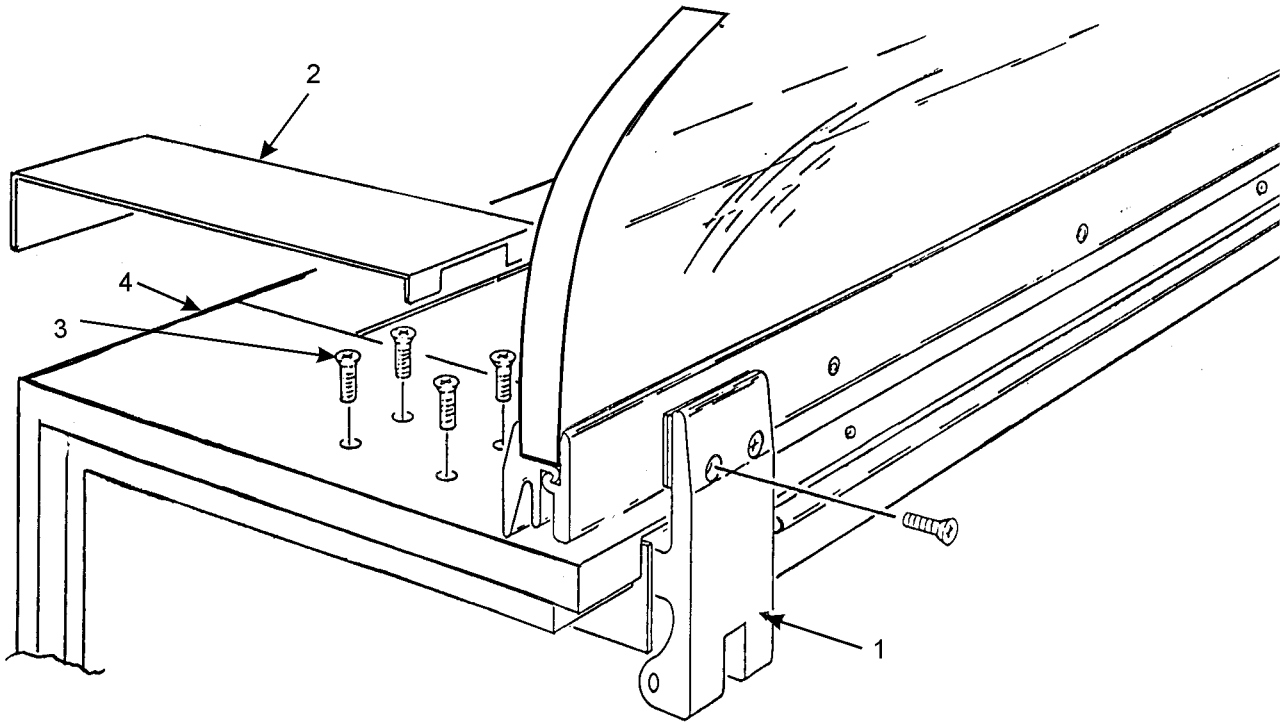
Lift Glass Cylinder Replacement

NOTE

All product should be removed from the case and the surrounding area before making this repair.

WARNING

Failed cylinders will not support the glass sufficiently to allow repeated opening and closing. Do not attempt to open the glass until the defective cylinder can be replaced. Failure to comply could cause glass breakage and/or personal injury.

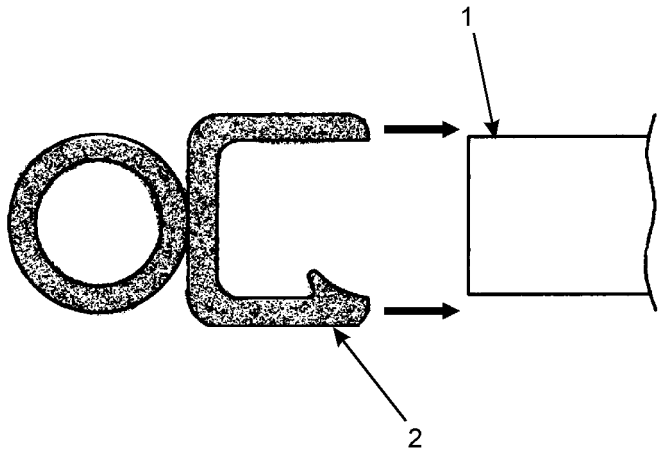


1. Remove the lift glass by following the instructions on the previous page.
2. Mark the position of the pivot hinge assembly (1) on the top interior of the case.
3. Drill out rivets and remove the stainless steel top cover (2).
4. Remove four screws (3) from top of case (4) and remove the pivot hinge assembly (1) from the inside top of the case (4).
5. Remove and replace the defective cylinder in the pivot hinge assembly (1).
6. Position pivot hinge assembly (1) inside top of case (4) as marked during removal and secure with four screws (3). After rechecking the hinge positioning, tighten the four screws (3) to 55 lb-in. of torque.
7. Install stainless steel top cover (2) and secure with rivets.
8. Install the lift glass by following the instructions on the previous page.

Lift Glass End Seal Replacement

The end seal trim for the curved glass edge is designed to slide on the glass without the need for glue or other adhesives. Looking at the cross section, you will notice a slight protrusion on the underside of the trim. This protrusion helps prevent the seal trim from coming off the glass once the trim piece has been properly installed.

1. Lift the glass to the fully opened position.
2. Thoroughly clean the edge of the glass (1) and the end seal trim (2) by wiping with alcohol. Dry both surfaces.
3. Starting at the top edge of the glass (1), push on the end seal trim (2) with the protrusion lip against the inside glass surface.
4. Cut off any excess end seal trim that extends beyond the bottom edge of the glass. Close the lift glass.



PARTS INFORMATION

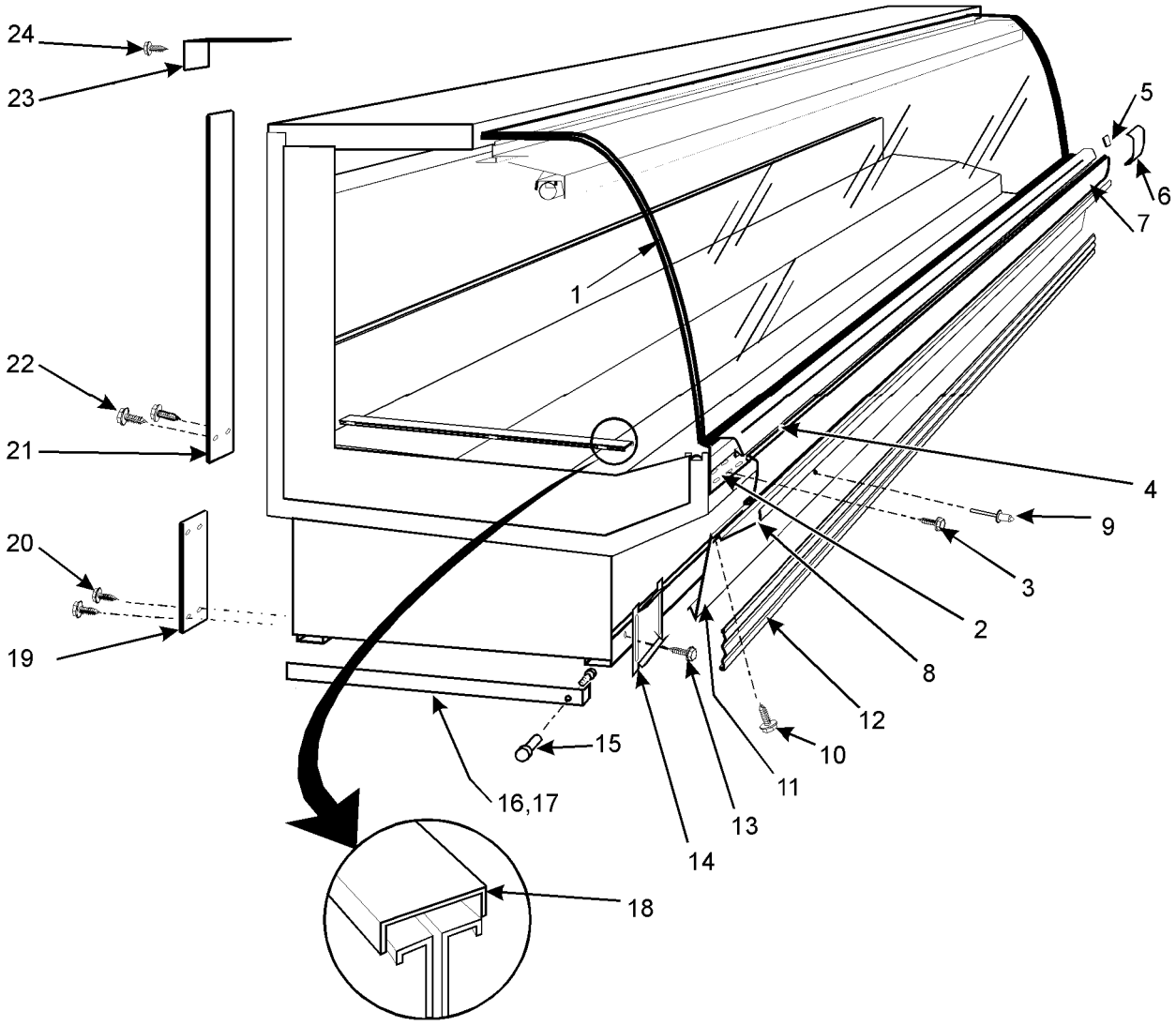
Operational Parts List

Case Usage	**Domestic**	
Electrical Circuit	115 Volt 60 Hertz	
Case Size	59”	77”
Primary Fan Motor (LLBR/LLBS)	5125532 5 Watt	5125532 5 Watt
Primary Fan Motor Brackets (LLBR/LLBS)	5962269	5962269
Primary Fan Blades (7” 15° 5B) (LLBR/LLBS)	5223891	5223891
Vent Fan Motor (LLBR/LLBS)	5120747	5120747
Vent Fan Blades (3” 4B) (LLBR/LLBS)	5120748	5120748
200MA Ballast (canopy)	5235876	5235266
T-6 Lampholder (telescopic)	5236168	5236168
(stationary)	5236169	5236169
Thermostat (LLBR/LLBS)	5940375	5940375

For information on operational parts not listed above contact the TYLER Service Parts Department.

Cladding and Trim Parts List

Item	Description	LLBR/LLBN/LLBS 59”	77”
1	Seal (250’)	5233454	5233454
2	Bumper Retainer	9025048	9025055
3	Screw	9025833 (9)	9025833 (9)
4	Color Band, Painted	9026400	9026401
5	Color Band Backer, Painted	9026432	9026432
6	Bumper Backer	---- color by order ----	
7	Bumper	---- color by order ----	
8	Upper Front Cladding, Painted	9026377	9026378
9	Rivet	5104702	5104702
10	Screw	5183536 (20)	5183536 (20)
11	Lower Front Cladding, Painted	9026379	9026380
12	Kickplate	---- color by order ----	
	Kickplate Backer	9041790	9041790
13	Screw	5183536 (4)	5183536 (6)
14	Kickplate Support	9041329 (2)	9041329 (3)
15	Screw	5100217 (3)	5100217 (3)
16	LH End Closeoff, Painted	9022468	9022468
17	RH End Closeoff, Painted	9022467	9022467
18	Horizontal End Trim	5211585	5211585
19	Rear Base Joint Trim	5233638	5233638
20	Screw	5619204 (4)	5619204 (4)
21	Upper Rear Joint Trim	5235948	5235948
22	Screw	5619204 (4)	5619204 (4)
23	Top Joint Trim, BR/SS	5235953	5235953
24	Screw	5619204 (2)	5619204 (2)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