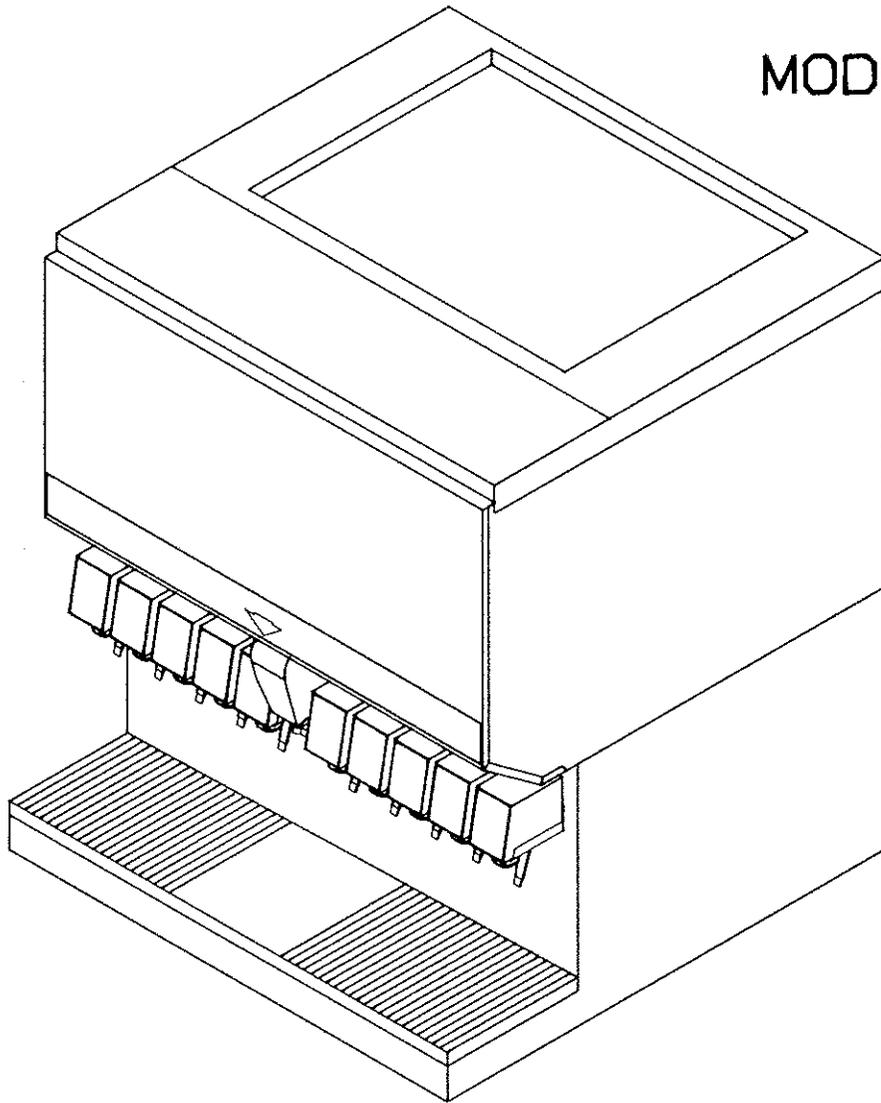


REMCOR®

ICE/BEVERAGE DISPENSER OWNERS MANUAL

MODEL: TJ250-KB



91124 REV X

REMCOR PRODUCTS CO.
500 REGENCY DRIVE
GLENDALE HEIGHTS, IL 60139-2268

CONTENTS

	Page
Safety Precautions	1
Description	2
Specifications	3
Icemaker Installation Kit	4
Installation Instructions	5
Mounting Template	6
Operating Instructions	7
Cleaning Instructions	8
Gate Restrictor Plate	10
Maintenance	11
Troubleshooting Guide	12
Wiring Diagram	14
Beverage System Wiring	15
Beverage System Schematic for "B" Models	16
Exploded View - Upper Section	17
Exploded View - Lower Section	18
Solenoid Assy	19
Parts List	20
Warranty	21

MFD. UNDER PATENT NOS.
3,393,839
3,517,860
CANADIAN 912,514
4,346,824 (10/72)

SAFETY PRECAUTIONS

Always disconnect power to the dispenser before servicing or cleaning.

Never place hands inside of hopper or gate area without disconnecting power to the dispenser. Agitator rotation occurs automatically when dispenser is energized!

This ice dispenser has been specifically designed to provide protection against personal injury, and eliminate contamination of the ice. To insure continued protection and sanitation, observe the following:

ALWAYS be sure the removable lid is properly installed to prevent unauthorized access to the hopper interior and possible contamination of the ice.

ALWAYS be sure the upper and lower front panels are securely fastened.

ALWAYS keep area around the dispenser clean of ice cubes.

DESCRIPTION

The Remcor "TJ250" series of ice dispensers solve your ice service needs the sanitary, space saving, economical way. The units are designed to be either manually filled with ice from any remote ice-making source, or to be used with a top-mounted "ice cuber."

These dispensers will dispense cubes (up to 1-3/8" size), cubelets and hard chipped or cracked ice. Remcor dispensers cannot be used with crushed or flaked ice.

"B" models contain beverage faucets only, and must be supplied with cold product from any remote cold plate or refrigerated soda factory.

CAUTION

1. Dispenser cannot be used with crushed or flaked ice.
2. Use of bagged ice, which has frozen into large chunks can void warranty. The dispenser agitator is not designed to be an ice crusher - use of large chunks of ice which "jam-up" inside the hopper will cause failure of the agitator motor and damage to the hopper. If bagged ice is used, it must be carefully and completely broken into small, cube-size pieces before filling into the dispenser hopper.

SPECIFICATIONS

- MODEL DESIGNATION: TJ 1 2 - 3 4
1. ICE STORAGE CAPACITY: (250) = 250 lbs.
 2. CABINETRY OPTIONS: (E) Neutral beige baked enamel finish and woodgrain vinyl-clad upper front panel.
(S) All stainless steel.
 3. ICE-FILL OPTIONS: (no suffix letter) Manually filled from remote icemaker.
(K) Automatic fill from a "Top-Mounted" ice cuber.
 4. BEVERAGE SYSTEM OPTIONS: (B) Beverage faucets.
(BC) Beverage faucets and an internal cold plate system.

Example: Model TJ250S-KBC has a 250 lb. ice storage capacity with stainless steel cabinet, beverage faucets, internal cold plate and is designed for automatic filling from a top-mounted icemaker.

ICE STORAGE CAPACITY
(lbs.): 250

ELECTRICAL: 115 Volts, 1 Phase, 60 Hz, 6.0 AMPS

ELECTRICAL CONNECTION: Supplied with 6 foot, 3-wire cord with 3-prong ground type plug.

DRAIN CONNECTION: 7/8" I.D. hose

DIMENSIONS: 36" wide x 44 5/8" high x 36" deep

SHIPPING WEIGHT: 300 lbs.

OPERATING WEIGHT: 550 lbs.
(less icemaker)

ICEMAKER

Remcor "K" model Ice/Beverage dispensers are designed to be used with one of several top mount "ice cubers." The ice maker must be obtained from the appropriate manufacturer.

REMCOR #1930 ICEMAKER INSTALLATION KIT

This kit contains parts and instructions necessary to connect the Ice-O-Matic C20/C40/C61 icemaker to the ice dispenser.

- "K" model dispensers:

Follow the installation instructions provided with the kit and the icemaker's instructions to install the icemaker on top of the dispenser.

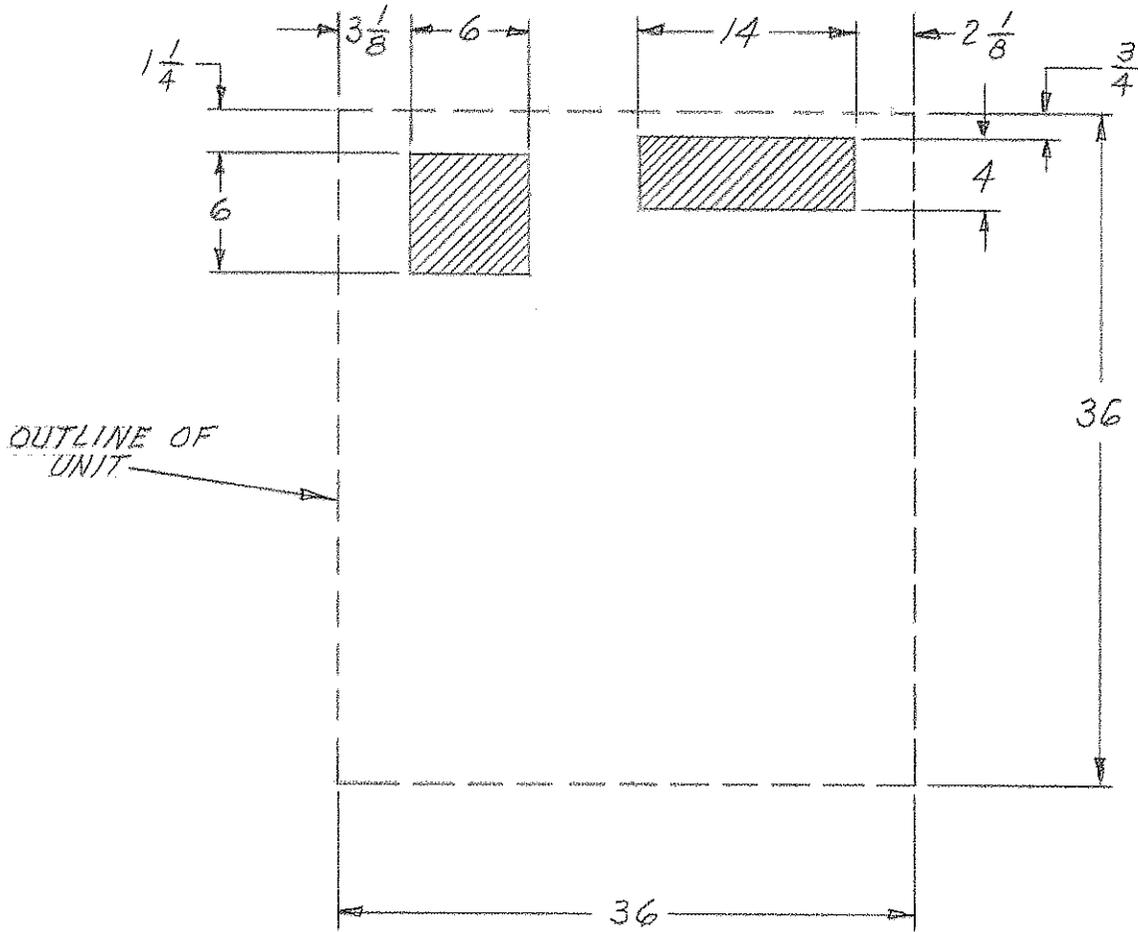
INSTALLATION INSTRUCTIONS

1. The ice dispenser must be sealed to the counter. The template drawings (page 6) indicates openings which must be cut in the counter. Locate the desired position for the dispenser, then mark the outline dimensions and cut-out locations using the template locations using the template drawing. Cut openings in counter.

Apply a continuous bead of NSF listed silastic sealant (Dow 732 or equal) approximately 1/4" inside of the unit outline dimensions, and around all openings. Then position the unit on the counter within the outline dimensions. All excess sealant must be wiped away immediately.

2. Carefully pull the beverage tubes, drain line, and power cord through the large openings in the bottom of the unit. See page 6, mounting template, for locating the required clearance holes in the counter for these utility lines.
3. Install icemaker according to instructions supplied with kit (page 4), and manufacturers instructions supplied with icemaker.
4. Connect the drain tube to an open drain. If additional piping is required, it must be 3/4" IPS (or equal), and must pitch downward away from the unit for proper drainage.
5. Connect the beverage system product lines as indicated on page . This work should be done by a qualified serviceman. Note that the hoses are marked with nos. (1-10) for syrup connections and "CW" for carbonated water connection.
6. Clean the ice dispenser interior (see cleaning instructions).
7. Connect the power cord to a 115 volt, 60 cycle, 3-wire grounded receptacle.

MOUNTING TEMPLATE



REMCOR MODEL TJ250-B
ICE/BEVERAGE DISPENSER

NOTE:

SHADED AREAS INDICATE OPENINGS IN CABINET BOTTOM
FOR UTILITIES AND BEVERAGE TUBING.

OPERATING INSTRUCTIONS

1. Ice Dispensing - Depressing the operating lever activates a microswitch behind the front panel, which energizes the agitator motor and gate solenoid. This causes the agitator to rotate and the gate slide to lift, allowing ice to push out the gate opening.
2. Ice Level - The agitation timer causes the ice to level which allows the entire storage bin to fill before the ice machine shuts off. The icemaker control capillary bulb maintains the ice level in the storage hopper. Consult the instructions provided with the installation kit (page 4), and the icemaker manual for location and operation of the icemaker control. In the event of an icemaker malfunction, the dispenser can be manually filled by removing the front top lid (2 thumb screws).

Note: Use caution to avoid spilling ice when filling or operating the dispenser. Clean up immediately any spilled ice from filling or operating the unit. To prevent contamination of ice, the lid must be installed on the unit at all times.
3. Beverage System - Beverages may be dispensed by operating the lever on the appropriate faucets. On units with cold plates ("C" models), periodic movement of the ice in the hopper is necessary to maintain the level of ice on the cold plate. On initial startup, or after long idle periods with no use, dispensing ice for 20-30 seconds is necessary to fill the cold plate, or warm beverages may be experienced.

CLEANING INSTRUCTIONS

WARNING: DISCONNECT POWER BEFORE CLEANING!

Do not use metal scrapers, sharp objects or abrasives on the surface of the liner, as damage may result. Do not use solvents or other cleaning agents as they may attack the plastic liner.

DISPENSER

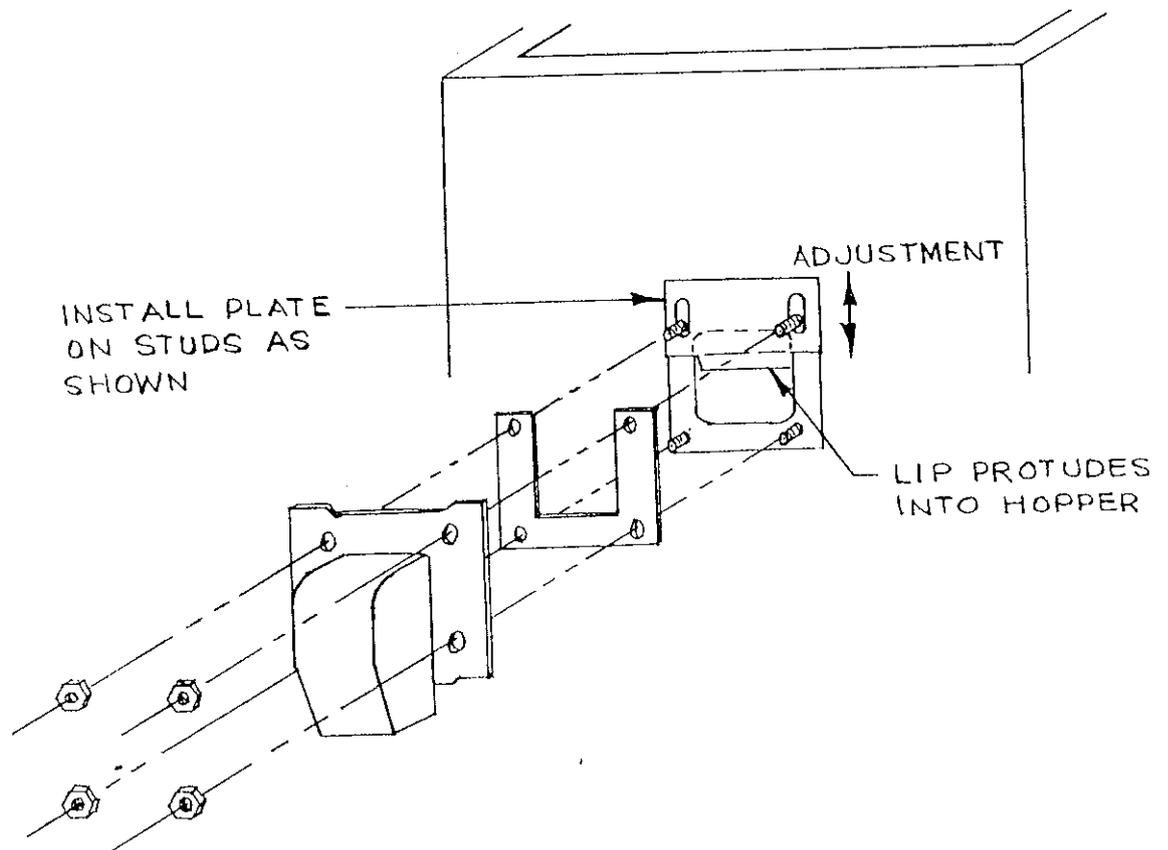
1. Clean the ice dispenser interior at least once a month.
2. Remove the agitator bolt and lift off the agitator assembly, taking care not to lose the shaft key. Wash and rinse all parts thoroughly.
3. Carefully remove, wash and rinse all internal hopper components.
4. Wash down the inside of the hopper and top cover with mild detergent solution, and rinse thoroughly to remove all traces of detergent.
5. Replace agitator and other components.
6. Sanitize the inside of hopper and agitator with a solution of 1 oz. of household bleach in 1 gallon of water.
7. With the brush provided, clean the inside of the ice chute with a mild detergent solution and rinse thoroughly to remove all traces of detergent. Sanitize as described in step 6.

BEVERAGE SYSTEM

1. Remove faucet spouts, wash in mild detergent, rinse, and replace.
2. Disconnect electrical power to the carbonator. Shut off the water supply and close the CO₂ regulator to the carbonator.
3. Disconnect the syrup tanks from the system.
4. Energize the beverage faucets to purge the remaining soda water in the system.
5. Use a clean 5 gallon tank for each of the following:
 1. Cleaning Tank - Fill with hot (120-140°F) potable water.
 2. Sanitizing Tank - Fill with a chlorine sanitizing solution in the strength of 1 ounce of household bleach (sodium hypochlorite) to 1 gallon of cold (ambient) potable water (410 PPM).
6. Repeat the following procedure on each of the unit's syrup product lines:
 - A. Connect the cleaning tank to the syrup line to be sanitized and to the CO₂ system.
 - B. Energize the beverage faucet until the liquid dispensed is free of any syrup.
 - C. Disconnect the cleaning tank and hook-up the sanitizing tank to the syrup line and CO₂ system.
 - D. Energize the beverage faucet until the chlorine sanitizing solution is dispensed through the faucet. Flush at least 2 cups of liquid to insure that the sanitizing solution has filled the entire length of the syrup line.
 - E. Disconnect the sanitizing tank. Hook-up the product tank to the syrup line and to the CO₂ system.
 - F. Energize the faucet to flush the sanitizing solution from the syrup line and faucet. Continue draw on faucet until only syrup is dispensed.
7. Repeat step #2 in reverse order to turn on the carbonator. Dispense at least 1 cup of beverage from each faucet. Check taste. Continue to flush if needed to obtain satisfactory tasting drink.

GATE RESTRICTOR PLATE

CAUTION: Disconnect power to dispenser before installing, removing, or adjusting this kit.



ADJUSTMENT

This dispenser is provided with a gate restrictor plate, installed in its highest position. This plate adjusts the rate of ice flow from the dispenser. In applications using buckets, carafes, or other large containers, the plate may be removed entirely for maximum ice flow. For glasses and cups, the plate may be adjusted downward to reduce the flow if ice. The best position depends on the type of ice being used, and the size container, and must be found by trial and error. Adjustment is made by loosening the upper two ice chute retaining nuts, sliding the restrictor plate to the desired position, and retightening the nuts.

MAINTENANCE

The following dispenser maintenance should be performed at the intervals indicated:

DAILY (or as required)

Remove foreign material from vending area sink, to prevent drain blockage.

WEEKLY (or as required)

Clean the vending area. Check for proper water drainage from the vending area sink.

MONTHLY

Clean and sanitize the hopper interior and beverage valves (see cleaning instructions).

If the dispenser fails to dispense ice when operated, check that the hopper has ice in it and that power is being supplied to the unit. If the problem persists, check the following:

Determine if the agitator is rotating (check for the sound of ice movement in the hopper).

Observe whether the gate is operating. After checking the above, refer to the "Troubleshooting Guide" for possible problem causes and corrective action.

TROUBLESHOOTING GUIDE

Should your unit fail to operate properly, check that there is power to the unit, and that the hopper contains ice. If the unit still does not dispense, check the following chart under the appropriate symptoms to aid in locating the defect.

<u>SYMPTOM</u>	<u>POSSIBLE CAUSE</u>
1. Blown fuse or circuit breaker.	1. Short circuit in wiring. 2. Defective gate solenoid. 3. Defective agitator motor.
2. Gate does not open. Agitator does not turn.	1. No power. 2. Bent depressor plate (does not actuate switch). 3. Defective dispensing switch.
3. Gate does not open or is sluggish. Agitator turns.	1. Defective gate solenoid. 2. Weak gate spring.
4. Gate opens. Agitator does not turn.	1. Agitator motor protector tripped. 2. Defective agitator motor. 3. Defective agitator relay.
5. Ice dispenses continuously.	1. Stuck or bent depressor plate (does not release switch). 2. Defective dispensing switch. 3. Improper switch installation.
6. Slushy ice. Water in hopper.	1. Blocked drain. 2. Unit not level. 3. Icemaker malfunction.
7. Ice solidified in hopper, or ice at rear corner only.	1. Defective or improperly adjusted icemaker thermostat.
8. No ice in hopper.	1. Icemaker malfunction.
9. Ice packed in hopper.	1. Defective or improperly adjusted icemaker control (not shutting off).
10. Beverages do not dispense.	1. No 24 volt power to faucets. 2. No CO ₂ pressure.

TROUBLESHOOTING GUIDE

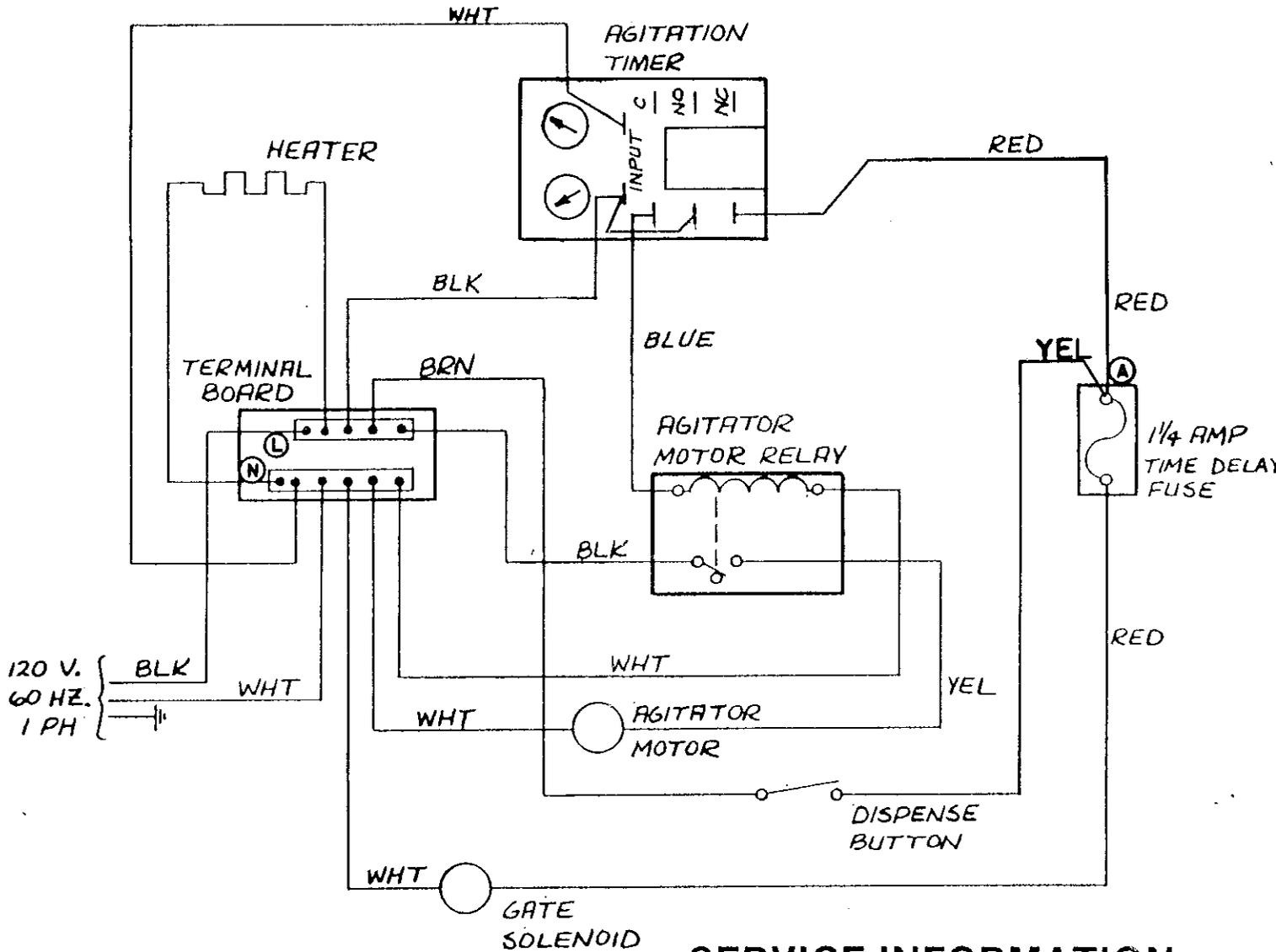
SYMPTOM

POSSIBLE CAUSE

- | | |
|---------------------------------|---|
| 11. Beverages too sweet. | 1. Carbonator not working.
2. No CO ² pressure in carbonator.
3. Faucet Brix requires adjusting. |
| 12. Beverages not sweet enough. | 1. Empty syrup tank.
2. Faucet Brix requires adjusting. |

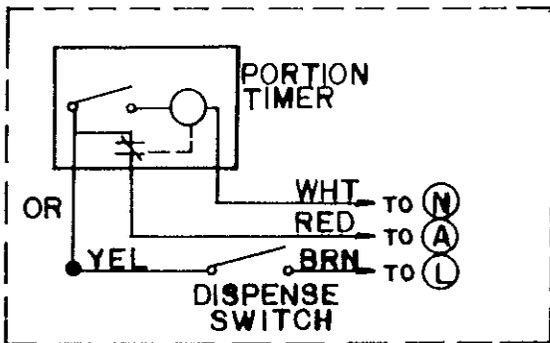
Contact your local syrup or beverage equipment distributor for additional information and troubleshooting of beverage system. Refer to manufacturers instructions for troubleshooting icemaker.

WIRING DIAGRAM

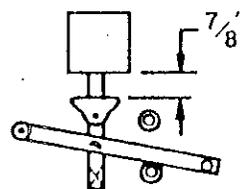


SERVICE INFORMATION

DANGER: ELECTRIC SHOCK HAZARD. DISCONNECT POWER BEFORE SERVICING UNIT.



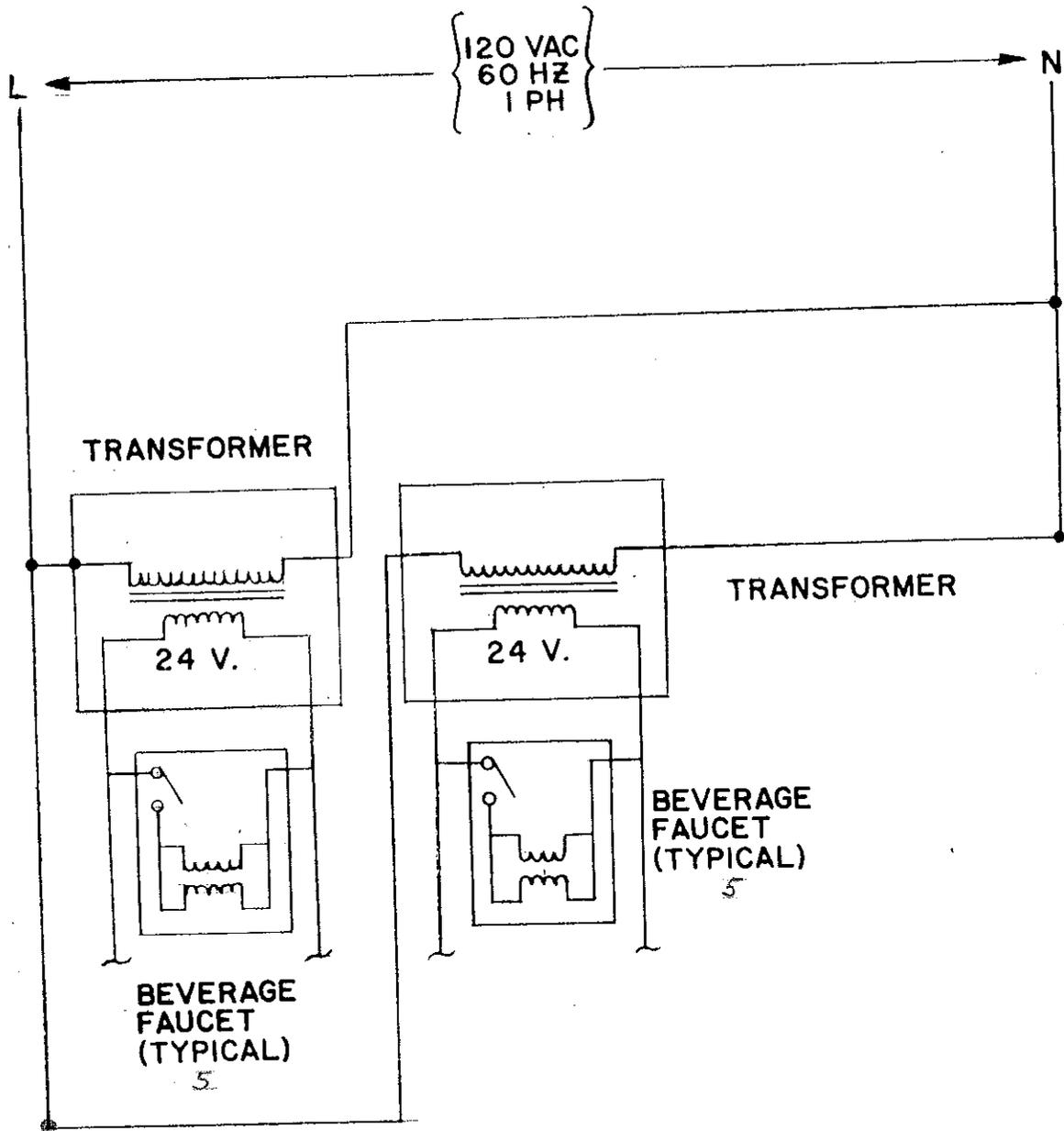
OPTIONAL PORTION CONTROL

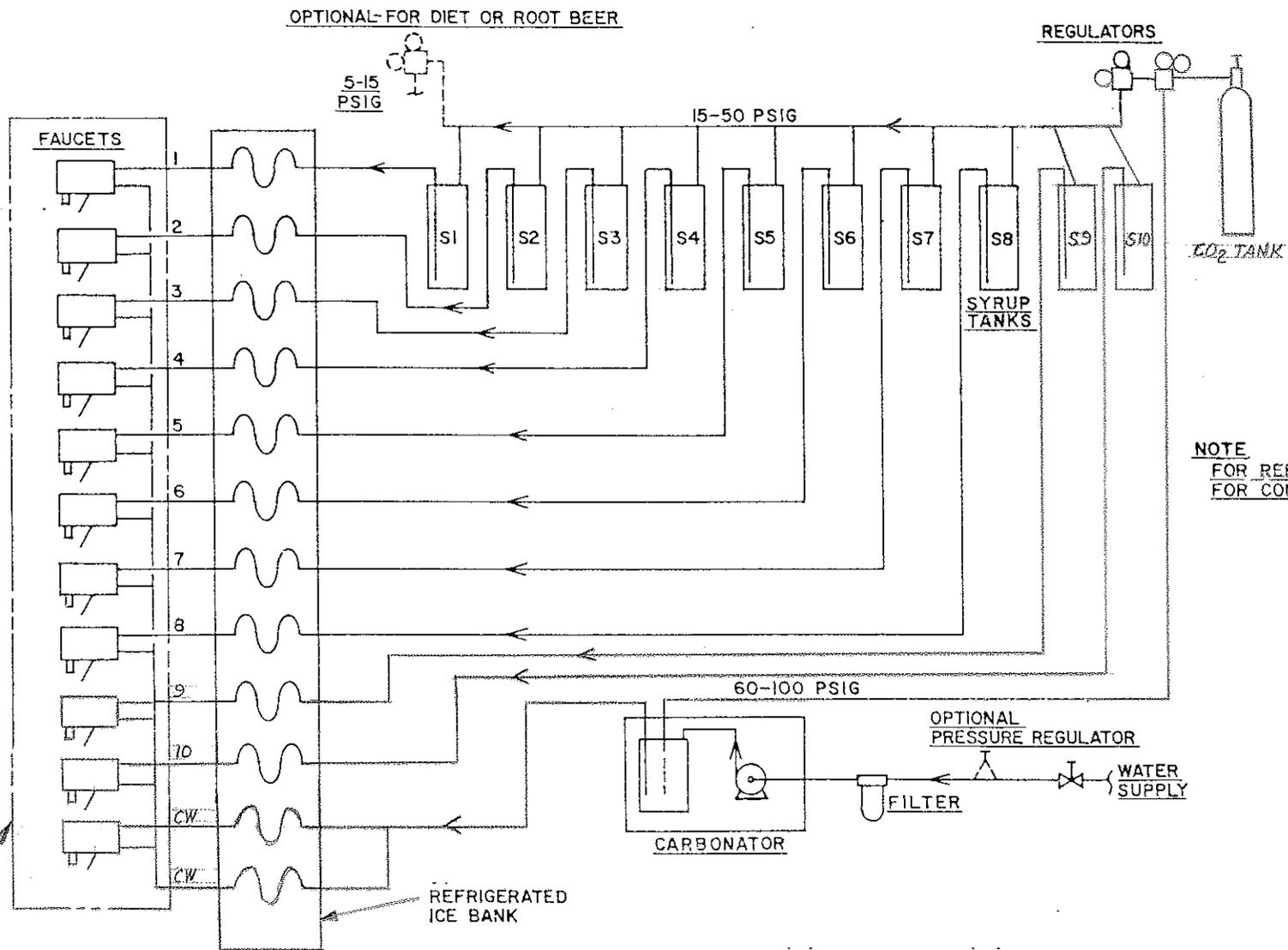


SOLENOID ADJUSTMENT

WHEN REPLACING SOLENOID ADJUST TO 7/8 AS SHOWN BEFORE TIGHTENING MOUNTING SCREWS.

BEVERAGE SYSTEM WIRING





OPTIONAL-FOR DIET OR ROOT BEER

REGULATORS

5-15 PSIG

15-50 PSIG

CO₂ TANK

SYRUP TANKS

NOTE
FOR REFERENCE ONLY-NOT
FOR CONSTRUCTION.

OPTIONAL
PRESSURE REGULATOR

WATER
SUPPLY

FILTER

CARBONATOR

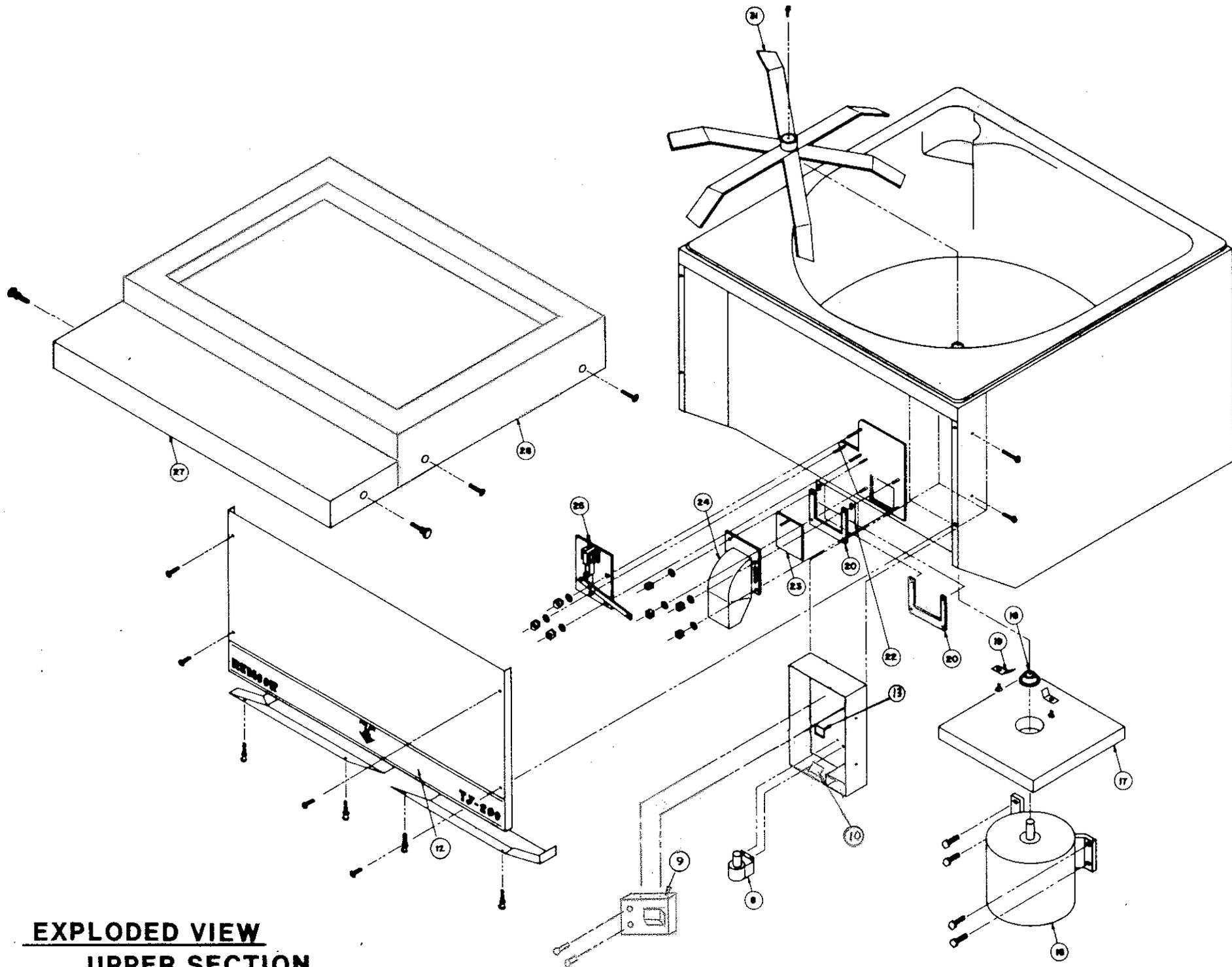
REFRIGERATED
ICE BANK

FAUCETS

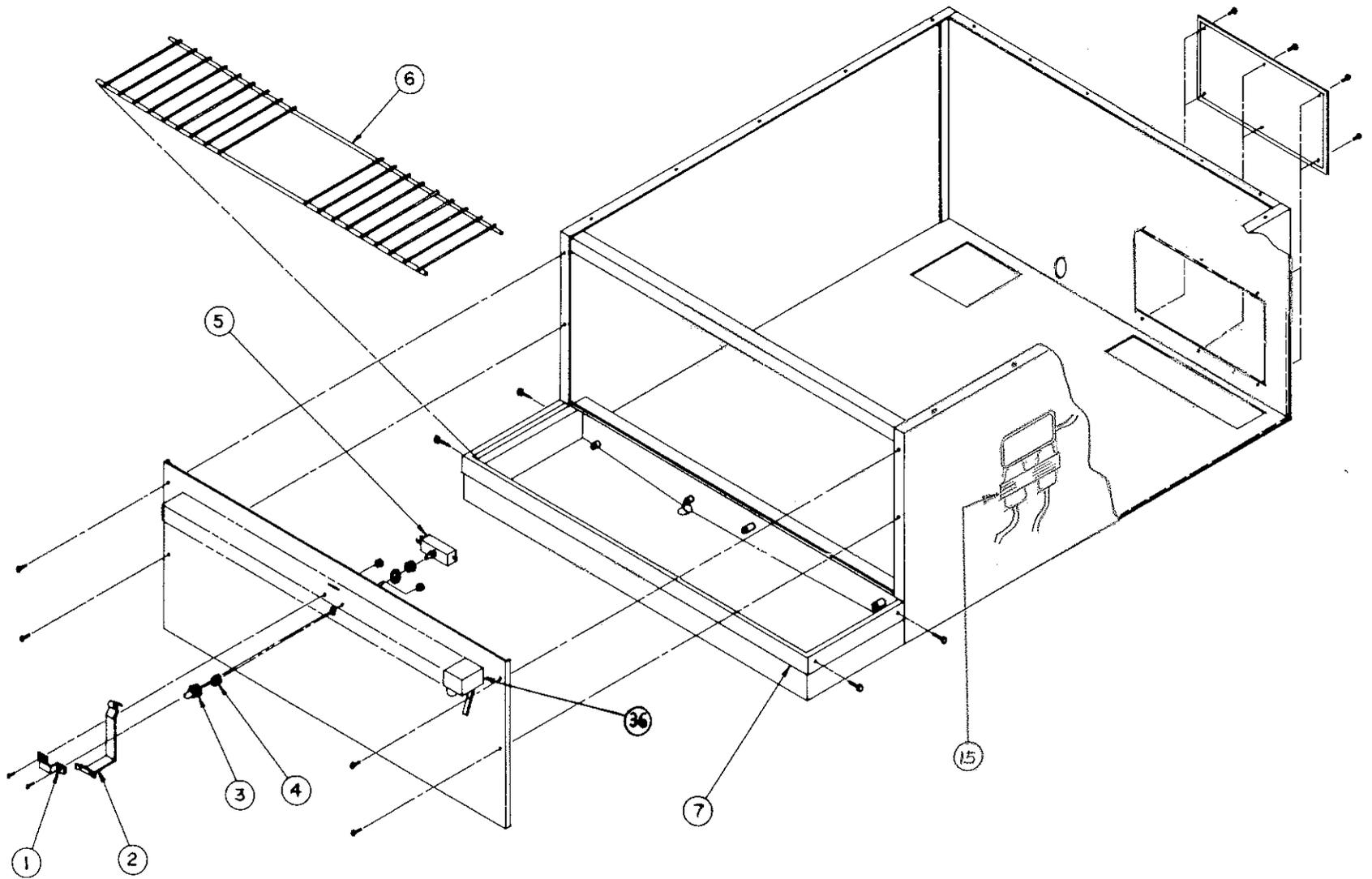
BEVERAGE SYSTEM SCHEMATIC

"-B" MODELS

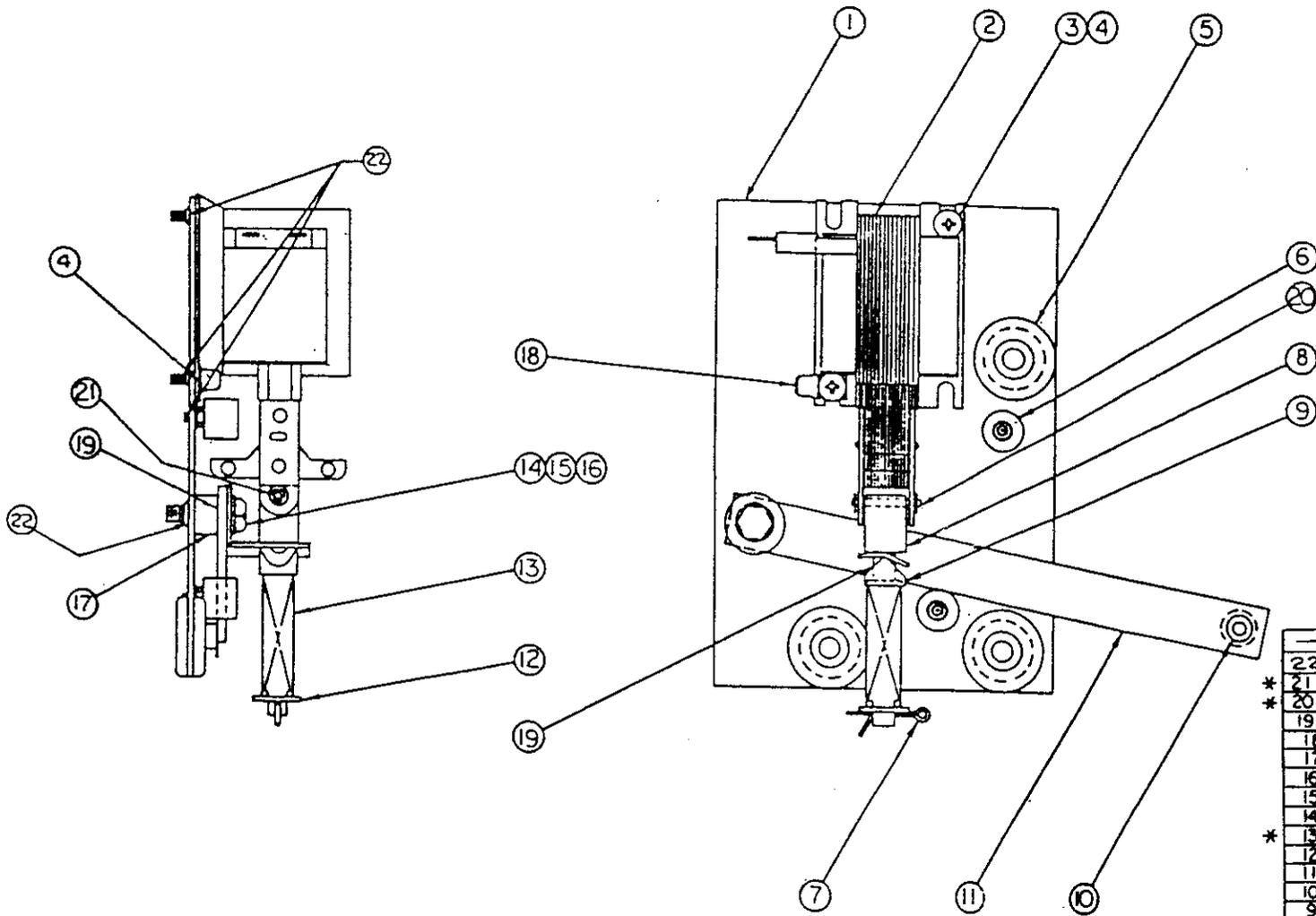
REMCOR "-B" ICE/BEVERAGE DISPENSER
ITEMS OUTSIDE OF BROKEN LINES NOT
INCLUDED WITH UNIT.



EXPLODED VIEW
UPPER SECTION



EXPLODED VIEW—LOWER SECTION



* PARTS SUPPLIED WITH REBUILDING KIT.

31551 SOLENOID SUPPLIED WITH ITEMS 20 & 21

ITEM	PT NO.	QTY.	DESCRIPTION
—	70438		REBUILDING KIT *
*	22	50188	~ LOCTITE
*	21	70433	2 RETAINER RING
*	20	21592	1 SOLENOID LINKAGE PIN
*	19	50305	~ LUBRICANT
	18	30227	1 1/4 QUICK CONNECT TAB
	17	10077	1 PIVOT BEARING
	16	70066	1 1/4 FLATWASHER
	15	70048	1 1/4 LOCKWASHER
	14	70263	1 1/4-20-1/2 HEX HD. SCREW
*	13	70422	1 SPRING
	12	70043	1 FLATWASHER
	11	22898	1 GATE LIFT ARM
	10	50754	1 GATE ARM BEARING
	9	10081	1 GATE LIFT ROD BUSHING
*	8	10080	1 GATE LIFT ROD
*	7	70423	1 COTTER PIN
*	6	50789	2 BUMPER ASSY.
	5	50752	3 ISOLATOR
	4	70121	2 NO. 8 LOCKWASHER
	3	70171	2 8-32-1/2 PHIL. TR. HD. SCREW
#	2	31551	1 SOLENOID
	1	22889	1 SOLENOID MTG. PLATE

SOLENOID ASS'Y

PARTS LIST

<u>ITEM</u>	<u>DESCRIPTION</u>	<u>PART NO.</u>
1	Depressor Retainer	22644
2	Depressor Lever	22777
3	Switch Boot	31007
4	Boot Adaptor	31163
5	Dispensing Switch	30895
6	Sink Grill	70710
7	Sink	51646
8	Mercury Relay	31375
9	Timer - Agitation	31763
10	On/Off Service Switch Beverage Faucets	30385
12	"Press For Ice" Label	91116
13	Terminal Board	30960
15	Transformer - Beverage Faucets	31091
16	Agitator Motor	31197
17	Insulation (Agitator Motor)	50967
18	Motor Shaft Seal	50891
19	Bracket - Hopper Seal	22402
20	Gate Gasket	50770
22	Gate Restrictor	22081
23	Gate Slide	21491
24	Ice Chute	50751
25	Solenoid Assy (See Page 19)	-----
	Solenoid	31551
	Rebuilding Kit	70438
27	Lid - Removable	25454
28	Cover Assy - Rear	25452
31	Agitator	22047
36	Beverage Faucets (Dole - fast flow)	40483

REMCOR[®] PRODUCTS COMPANY

2-YEAR ICE DISPENSER WARRANTY

REMCOR Products Company warrants to the original purchaser of each new REMCOR sanitary ICE DISPENSER, for a period of 24 months from date of shipment that all parts shall be free from defects in material and workmanship under normal use and service.

Under this warranty, as defective part (or parts) is to be returned to REMCOR Products Company, 500 Regency Drive, Glendale Heights, Illinois 60139-2268 (Phone 708/980-6900) and shall be limited exclusively to repairing or replacing F.O.B. Factory, such part or parts which it concludes upon examination to be defective under the terms of this warranty. Return of any part disassembled will void warranty on any part. The decision of our Service Department regarding the warranty of parts will be final.

The warranties defined herein shall not apply to any damage or defects created or arising from accident, misapplication, abuse, misuse, neglect, alteration, acts of vandalism, flood, fire, acts of God or any other occurrences beyond the control of REMCOR. Warranty validity also requires that all instructions have been followed and adhered to as provided in the Owner's Manual included with each unit.

REMCOR's warranty responsibility ceases if shipment is not received by you in good order and in accordance with quantity shown on Invoice or Packing Sheet; if you accept shipment from the Transportation Company in damaged condition without having a proper notation made by the Station Agent you do so at your own risk. If cartons are in apparent good order, but upon opening, contents are found to be damaged; call agent or adjuster to view same and have him mark the freight bill relative to such concealed damage. This procedure must be executed within fifteen days after delivery.

Prior to returning any material, (part or unit), a Return of Material Authorization (RMA) must be obtained. To obtain this authorization provide the reason for return, model number, serial number and part number. Either call or write REMCOR's Parts Service Department and an Authorization number and tag will then be issued - this tag must accompany the material returned. No representative, dealer, distributor or any person is authorized to make any other decisions regarding the warranty or liability in accordance with REMCOR's Warranty. Any materials that do not have a pre-issued Return Material Authorization number when received will be refused by REMCOR, and returned to the sender (freight collect).

REMCOR Products Company will not honor, or assume any responsibility for any expenses (including labor), incurred in the field for the repair of equipment covered in our Warranty unless authorization has been granted from REMCOR's Service Department prior to work being performed. The request for repair Warranty work will only apply to units shipped from REMCOR within a thirty day time period of request. It will further be at the discretion of REMCOR to decide if said labor will be reimbursed in full, or partial payment. REMCOR Products Company will also control the right to decline payment - all decisions will be based on circumstances prevailing. Charges for a repeat service call on the same unit to rectify the same problem previously corrected shall not be honored. REMCOR Products shall retain the right to select, or recommend another company to complete the necessary repair work.

CAUTION

The inherent nature of ice may cause spillage onto counter or floor areas. The Owner or Operator is cautioned to Maintain these areas in a clean, ice-free condition.