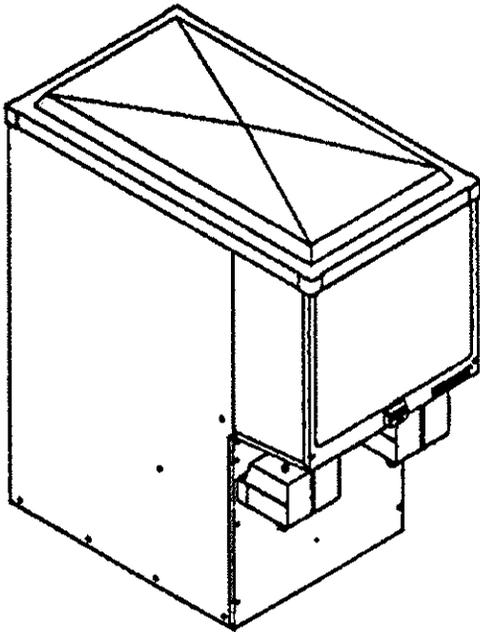
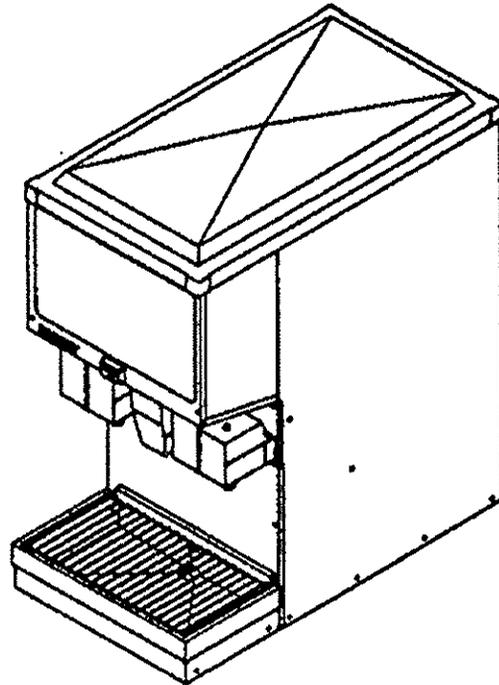


REMCOR®

ICE / BEVERAGE DISPENSER OWNERS MANUAL



MODEL: DB90S-BZ



MODEL: DB90S-B

REMCOR PRODUCTS COMPANY
500 REGENCY DRIVE
GLENDALE HEIGHTS, IL 60139-2268
(708) 980-6900

THIS DOCUMENT CONTAINS IMPORTANT INFORMATION

**THIS SERVICE MANUAL MUST BE READ AND UNDERSTOOD
BEFORE THE INSTALLATION AND OPERATION OF THIS DISPENSER.**

P/N 91500 REV B

CONTENTS

Safety Precautions	Page 1
Description	Page 1-2
Specifications	Page 2
Installation Instructions	Page 3
#1926 Kit - Gate Restrictor Plate	Page 4
Mounting Template, DB90-B	Page 5
Mounting Template, DB90-BZ	Page 6
Beverage System Schematic for "B" Units	Page 7
Maintenance	Page 8
Start-up and Operating Instructions	Page 8
Cleaning Instructions	Page 9-10
Trouble-shooting Guide	Page 11
Wiring Diagram	Page 12
Solenoid Assembly.	Page 13
Parts List, Solenoid Assembly.	Page 14
Exploded View, DB90-B	Page 15
Parts List, DB90-B	Page 16
Exploded View, DB90-BZ	Page 17
Parts List, DB90-BZ	Page 18
Warranty	Page 19

Manufactured Under One or More of the Following Patent Numbers: 3,211,336, 3,274,792, 3,393,839, 3,517,860, 3,739,842, 4,215,803, 4,227,377, 4,300,359, 4,346,824
Canadian Patent Numbers 912,514 (10/72), 936,855 (11/73), 4,429,543, 4,921,149
Other Patents Pending

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.

This ice dispenser has been specifically designed to provide protection against personal injury and eliminates contamination of 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.

C A U T I O N

- 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-sized pieces before filling into the dispenser hopper.

DESCRIPTION

The REMCOR® "DB" series of ice dispensers solve your ice and beverage service needs in the sanitary, space saving, economical way. Designed to be manually filled with ice from any remote ice making source, these dispensers will dispense cubes (up to 1-1/4" in size), cubelets, hard-chipped or cracked ice and Scotsman MH750 pellet ice; and, in addition, several flavors of post-mix beverages. "B" models contain beverage faucets **only** and must be supplied with cold product from any remote cold plate or refrigerated soda factory.

SPECIFICATIONS

Model: DB90*-BZ
Ice Storage: 90 lbs
Maximum Number of Faucets Available: 4
Built-in Cold Plate: No
Electrical: 120/1/60; 3A Cord Connected; 15A, 125V Plug
Dimensions: 16" Wide X 29 3/4" Deep X 32" High

Model: DB90*-B
Ice Storage: 90 lbs
Maximum Number of Faucets Available: 4
Built-in Cold Plate: No
Electrical: 120/1/60; 3A Cord Connected; 15A, 125V Plug
Dimensions: 16" Wide X 29 3/4" Deep X 32" High

*CABINET OPTIONS

S -All Stainless Steel

INSTALLATION INSTRUCTIONS

- 1) Locate the dispenser indoors on a level counter top. The ice dispenser must be sealed to the counter. The template drawing indicates the opening which must be cut in the counter. Locate the desired position for the dispenser, then mark the outline dimensions on the counter using the template drawing. Cut the opening in the counter.

Apply a continuous bead of National Sanitation Foundation (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 opening in the bottom of the unit.
- 3) Connect the drain tube to an open drain. If additional piping is provided, it must be 3/4" IPS (or equal). This line must continually pitch downward away from the unit and must contain no traps, or improper drainage will result.
- 4) Connect the beverage system product lines as indicated in Figure 2. This work should be done by a qualified serviceman. Note that the hoses are marked with numbers (1 through 4) for syrup connections and "CW" for carbonated water connection.

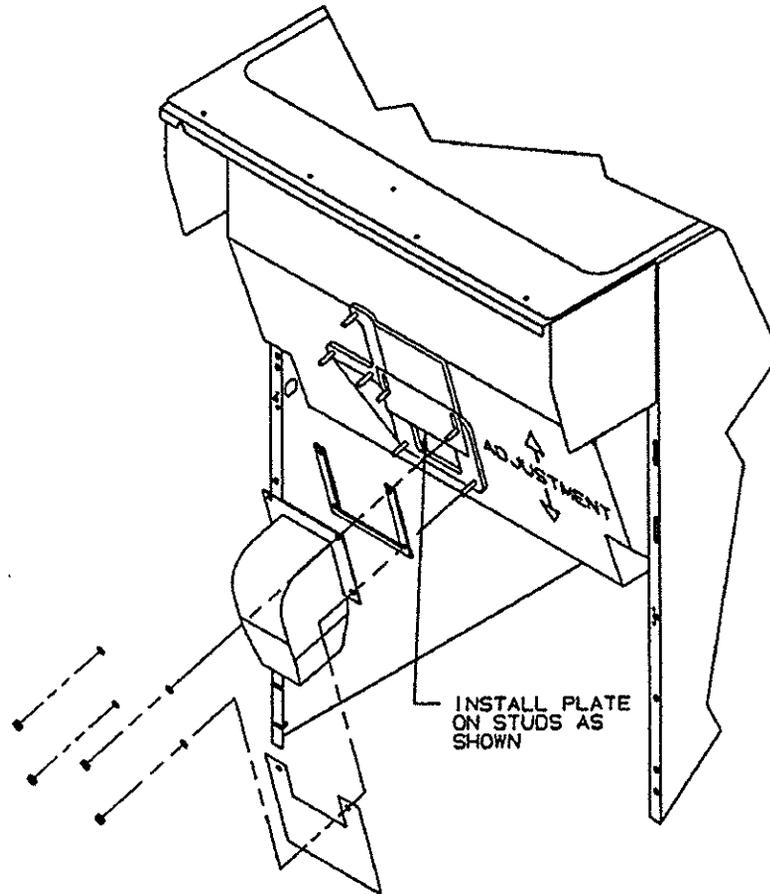
IMPORTANT: The water supply to the carbonator must comply with the basic plumbing code of the Building Officials and Code Administrators International, Inc. (BOCA) and local plumbing codes.

- 5) Clean the hopper interior (see CLEANING INSTRUCTIONS).
- 6) Connect the power cord to a 120 volt, 60 cycle, 3-wire grounded receptacle.

GATE RESTRICTOR PLATE

CAUTION

Disconnect power to dispenser before installing, removing or adjusting restrictor.



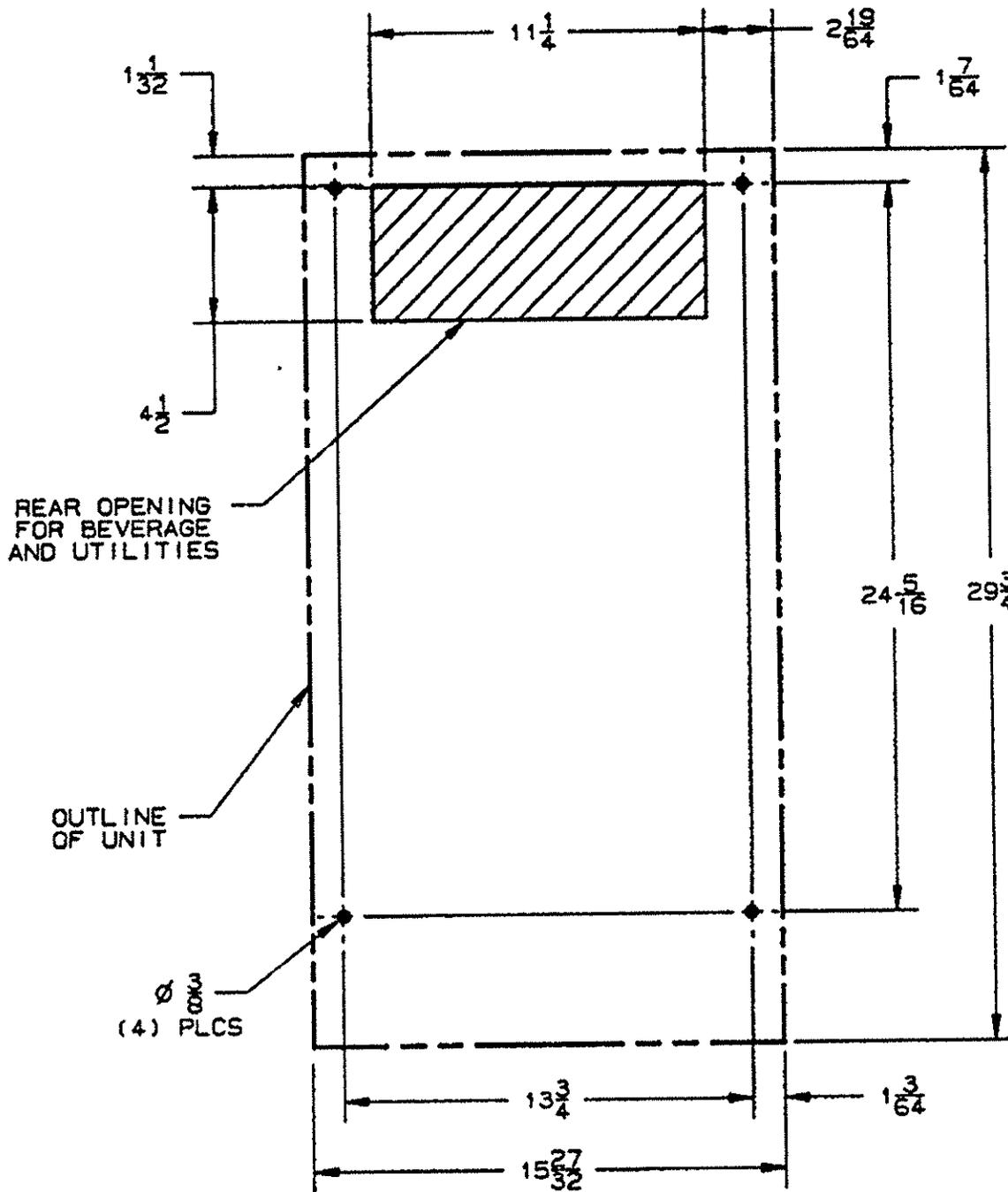
ADJUSTMENT

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 of 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 re-tightening the nuts.

If the dispenser fails to dispense the 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:

- 1) Determine if the agitator is rotating (check for the sound of ice movement in the hopper).
- 2) Observe whether the gate is operating.

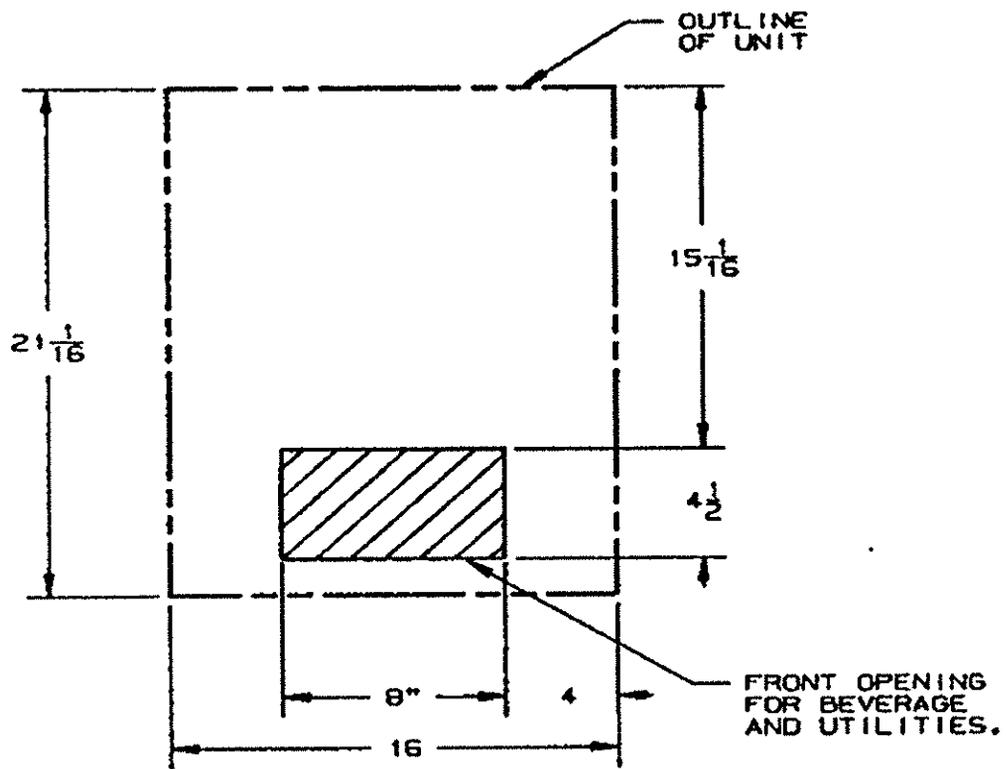
MOUNTING TEMPLATE DB90-B



NOTES:

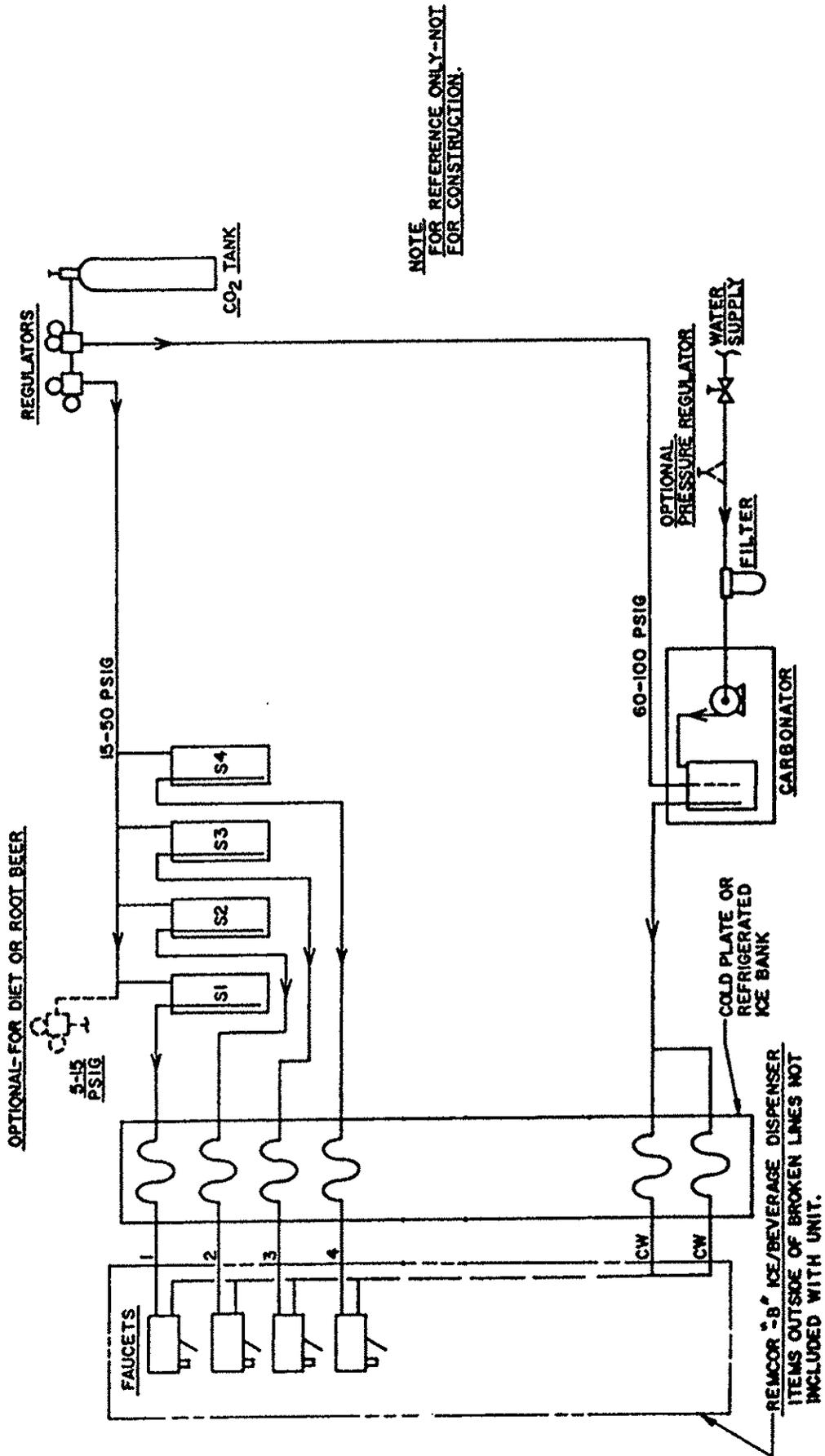
1) SHADED AREAS INDICATE OPENINGS IN CABINET BOTTOM NEEDED FOR UTILITIES AND BEVERAGE TUBING.

MOUNTING TEMPLATE
DB 90-BZ



NOTES:

- 1) SHADED AREAS INDICATE OPENINGS IN CABINET BOTTOM NEEDED FOR UTILITIES AND BEVERAGE TUBING.



NOTE
FOR REFERENCE ONLY--NOT
FOR CONSTRUCTION.

OPTIONAL FOR DIET OR ROOT BEER

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

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

MONTHLY

Clean and sanitize the hopper interior (see CLEANING INSTRUCTIONS).

START-UP AND OPERATING INSTRUCTIONS

Fill the hopper with ice. Start up the beverage system and adjust faucets to the proper brix. Contact your local syrup distributor for complete information on the beverage system.

In normal operation, pushing the ice dispenser push button switch will cause ice to flow from the ice chute. Ice flow will continue until the push button is released. Pushing the push button switch on any faucet will provide beverage of the appropriate flavor.

NOTE

Use caution to avoid spilling ice when filling 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.

CLEANING INSTRUCTIONS

WARNING

DISCONNECT POWER BEFORE CLEANING! Do not use metal scrapers, sharp objects or abrasives on the ice storage hopper, top cover and the agitator disk, as damage may result. Do not use solvents or other cleaning agents, as they may attack the plastic material.

DISPENSER (All models)

- 1) Clean the ice storage hopper at least once a month.
- 2) Lift off the agitator and the agitator disk. Wash with a mild detergent solution and rinse them thoroughly to remove all traces of detergent.
- 3) Wash down the inside of the hopper and top cover with a mild detergent solution and rinse thoroughly to remove all traces of detergent.
- 4) Replace the agitator.
- 5) Sanitize the inside of the hopper and agitator with a solution of 1 ounce of household bleach in 2 gallons of water (200 PPM).
- 6) Replace the agitator disk. Sanitize as described in Step 5.
- 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 5.

BEVERAGE SYSTEM (-B MODELS)

- 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:
 - A) **Cleaning Tank** - Fill with hot (120° - 140°) potable water.
 - B) **Sanitation Tank** - Fill with a chlorine sanitizing solution in the strength of 1 ounce of household bleach (sodium hypochlorite) to 2 gallons of cold (ambient) potable water (200 PPM).

CLEANING INSTRUCTIONS, continued

- 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 the 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 a satisfactory tasting drink.

TROUBLE-SHOOTING 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 does not dispense, check the following chart under the appropriate symptoms to aid in locating the defect.

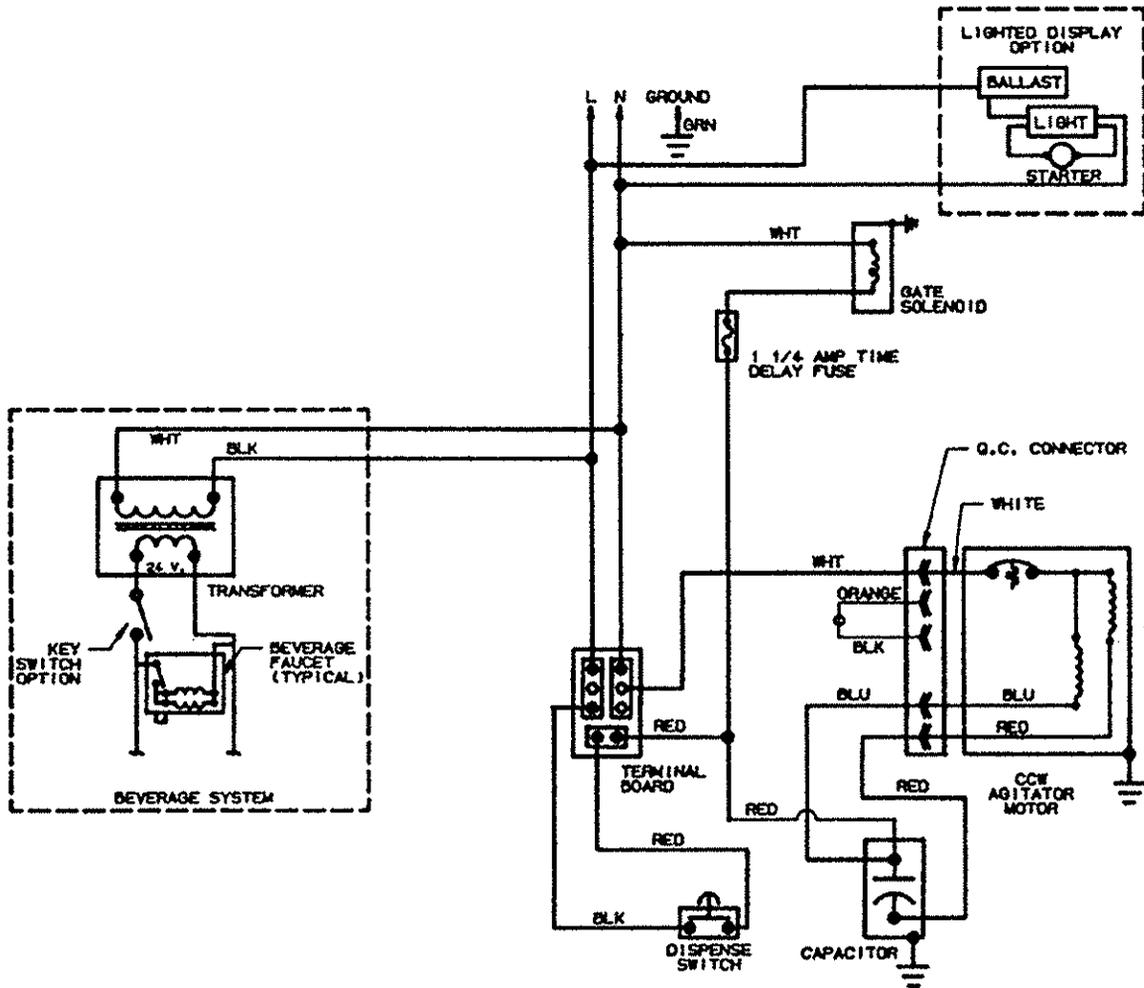
SYMPTOMS

POSSIBLE CAUSES

- | | |
|---|---|
| • Blown fuse or circuit breaker. | • Short circuit in wiring.
• Defective gate solenoid.
• Defective agitator motor. |
| • Gate does not open. | • No power.
• Defective dispensing switch.
• Blown/defective fuse or jammed gate solenoid. |
| • Gate does not open or is sluggish.
Agitator turns. | • Defective gate solenoid.
• Weak gate spring.
• Excessive pressure against gate slide. |
| • Gate opens. Agitator does not turn. | • Ice solidified in hopper.
• Defective agitator motor.
• Defective capacitor. |
| • Ice dispenses continuously. | • Stuck or bent push button
(does not release switch).
• Defective dispensing switch.
• Improper switch installation |
| • Slushy ice. Water in hopper. | • Blocked drain.
• Unit not level.
• Poor ice quality due to water quality or icemaker problems.
• Improper use of flaked ice. |
| • Beverages do not dispense. | • No 24 volt power to faucets.
• No CO2 pressure. |
| • Beverages too sweet. | • Carbonator not working.
• No CO2 pressure in carbonator.
• Faucet brix requires adjusting. |
| • Beverages not sweet enough. | • Empty syrup tank.
• Faucet brix requires adjusting. |

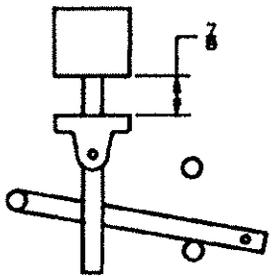
Contact your local syrup or beverage equipment distributor for additional information and trouble-shooting of beverage system.

WIRING DIAGRAM DB 90 DISPENSER



SERVICE INFORMATION

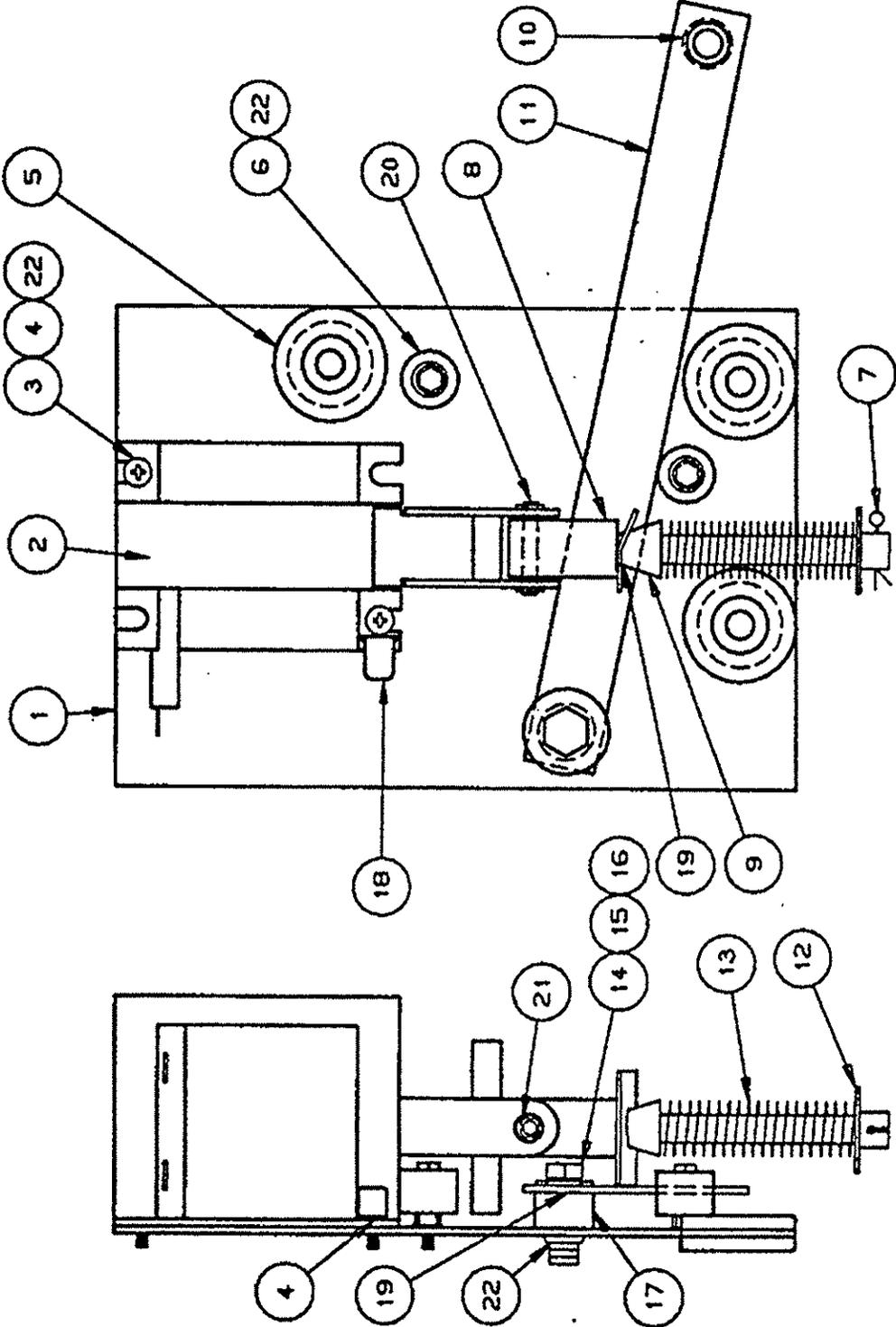
DANGER! ELECTRIC SHOCK HAZARD. DISCONNECT POWER BEFORE SERVICING UNIT.



SOLENOID ADJUSTMENT

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

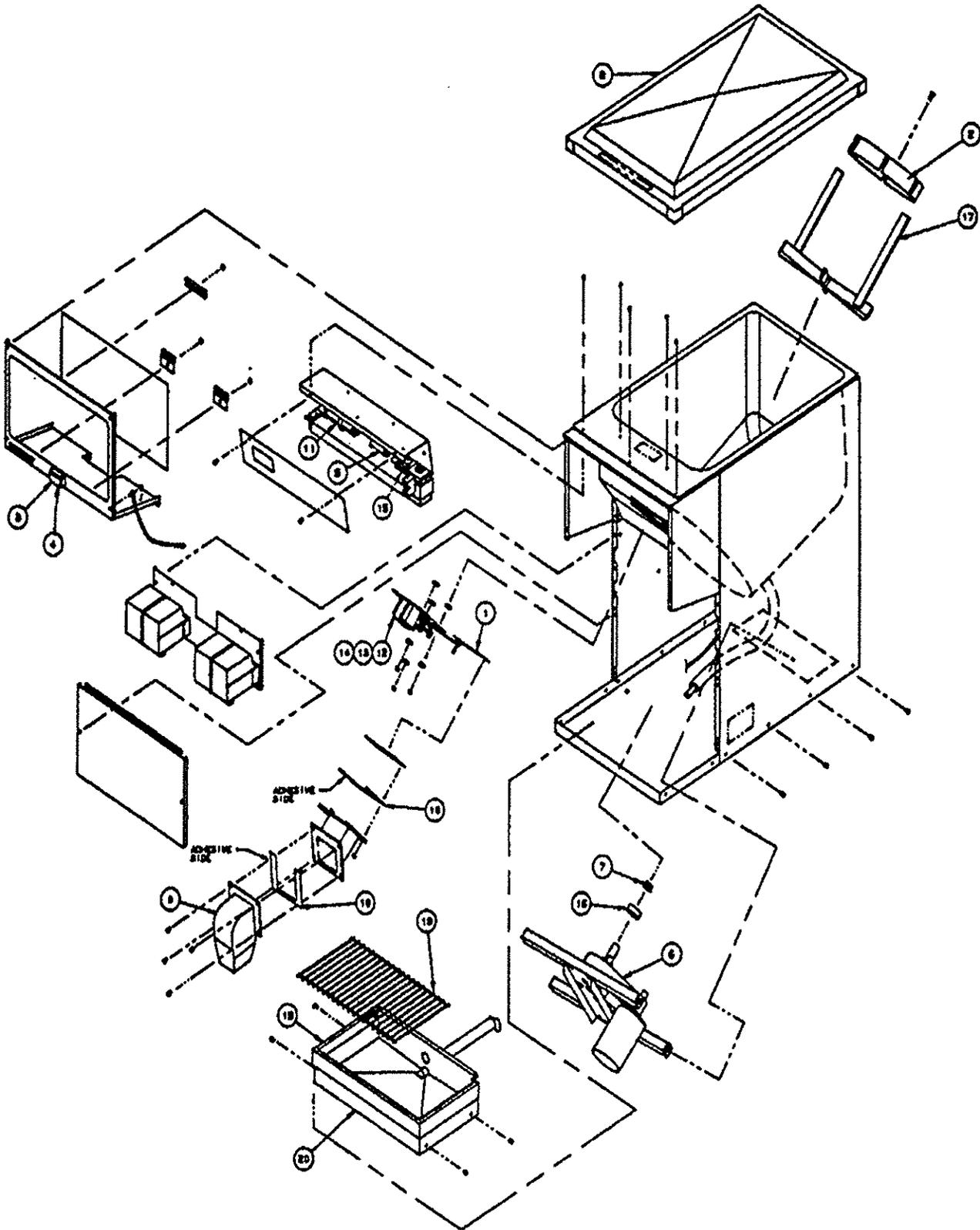
SOLENOID ASSEMBLY



SOLENOID ASSEMBLY PARTS LIST

*--	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=3/4 HEX HD SCREW
*13	70422	1	SPRING
12	70043	1	FLATWASHER
11	21492	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	2	ISOLATOR
4	70121	2	NO. 8 LOCKWASHER
3	70171	2	8-32=3/8 PHIL TR HD SCREW
#2	31551	1	SOLENOID
1	21493	1	SOLENOID MTG PLATE
ITEM	P/N	QTY	DESCRIPTION

EXPLODED VIEW - DB90-B



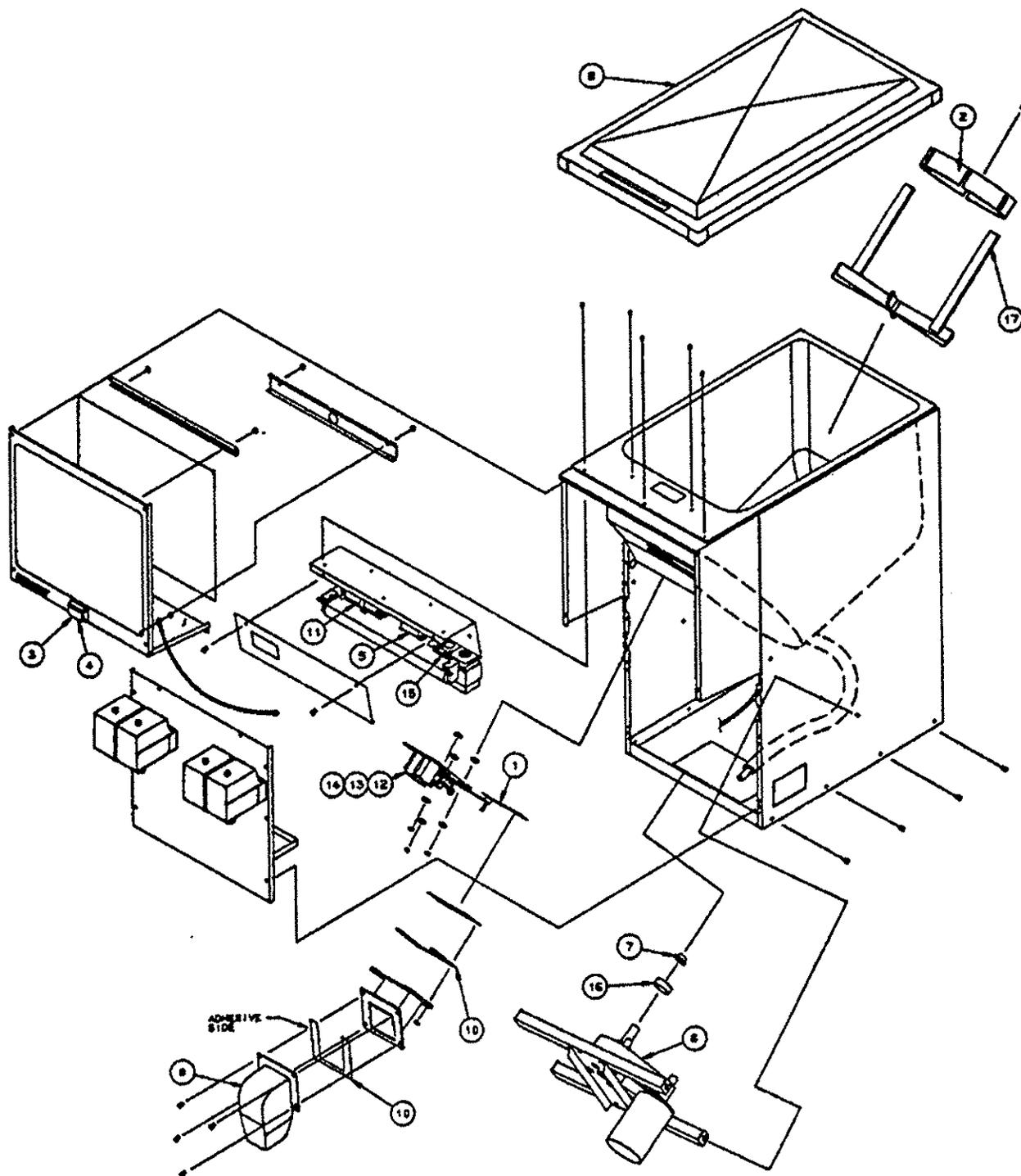
**PARTS LIST
DB90-B**

<u>ITEM</u>	<u>DESCRIPTION</u>	<u>PART NO.</u>
1	Gate Slide	27534
2	Agitator Disk	52072
3	Ice Dispenser Switch	32763
4	Switch Label	91511
5	Transformer (-B Models)	31091
6	Agitator Motor	32745
7	Motor Shaft Seal	50454
8	Lid	52054
9	Ice Chute	50751
10	Gate Gasket	51891
11	Capacitor, Agitator Motor	30997
12	Gate Solenoid Assembly (see page 13)	31093
13	Gate Solenoid Kit	31551
14	Rebuilding Kit (Gate Solenoid)	70438
15	Fuse, Gate Solenoid	31406
16	Motor, Gasket	51860
17	Agitator	27597

Parts for Sink Model Only

18	Sink, Foamed	50750
19	Sink Grill	70426
20	Sink, Ext.Weldment	27621

EXPLODED VIEW - DB90-BZ



PARTS LIST
DB90-BZ (no sink)

<u>ITEM</u>	<u>DESCRIPTION</u>	<u>PART NO.</u>
1	Gate Slide	27534
2	Agitator Disk	52072
3	Ice Dispenser Switch	32763
4	Switch Label	91511
5	Transformer (-B Models)	31091
6	Agitator Motor	32745
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16	Motor, Gasket	51860
17	Agitator	27597

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 or arising from accident, misapplication, abuse, misuse, neglect, alteration, acts of vandalism, flood, fire, act 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 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 area. The Owner or Operator is cautioned to Maintain these areas in a clean, ice-free condition.

REMCOR PRODUCTS COMPANY 500 Regency Drive Glendale Heights, IL 60139-2268 (708) 980-6900