

REMCOR®

ICE/BEVERAGE DISPENSER

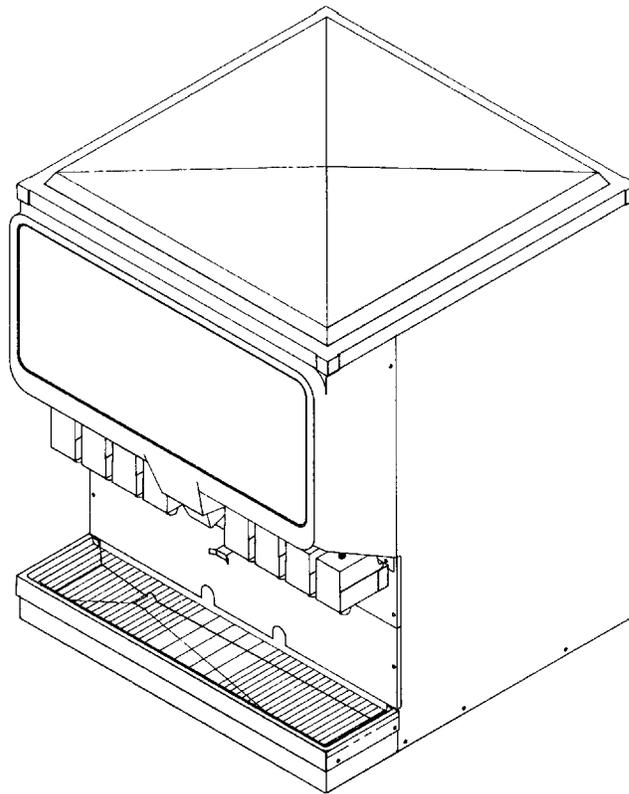
MODELS DB200/220/275S

DB200/220/275S-B

DB200/220/275S-BC

DB200/220/275S-KBC

Operator's Manual



Part No. 91679
May 1997
Revision E

THIS DOCUMENT CONTAINS IMPORTANT INFORMATION

This Manual must be read and understood before installing or operating this equipment

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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. Agitator rotation occurs automatically when the dispenser is energized!

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 ice.

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

ALWAYS keep area around the dispenser clean of ice cubes.



CAUTION: Dispenser cannot be used with crushed or flaked ice. 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.

GENERAL DESCRIPTION

The Remcor “DB” series of ice dispensers solve your ice and beverage service needs in a sanitary, space saving, economical way. Designed to be manually filled with ice from any remote ice making source, these dispensers will dispense cubes (up 1-1/4” in size), cubelets and hard-chipped or cracked ice.

“B” models also contain beverage faucets and must be supplied with cold product from any remote cold plate or refrigerated soda factory.

“BC” units include both faucets and cold plates and are designed to be supplied direct from syrup tanks and carbonator, with no additional cooling required.

Table 1. Specifications

Model:	DB200S	DB220S	DB275S
Ice Storage:	200 lbs.	220 lbs.	275 lbs.
Maximum Number of Faucets Available:	N/A	N/A	N/A
Built-in Cold Plate:	No	No	No
Dimension:	30W x 30D x 33H	30W x 30D x 36H	30W x 30D x 40H
Model:	DB200S-B	DB220S-B	DB275S-B
Ice Storage:	200 lbs.	220 lbs.	275 lbs.
Maximum Number of Faucets Available:	10	10	10
Built-in Cold Plate:	No	No	No
Dimension:	30W x 30D x 33H	30W x 30D x 36H	30W x 30D x 40H
Model:	DB200S-BC	DB220S-BC	DB275S-BC
Ice Storage:	200 lbs.	220 lbs.	275 lbs.
Maximum Number of Faucets Available:	10	10	10
Built-in Cold Plate:	Yes	Yes	Yes
Dimension:	30W x 30D x 33H	30W x 30D x 36H	30W x 30D x 40H
Electrical (for all models)	120V, 1ph., 5.5 Amps		
Drain Connection	7/8 ID Hose		

ICE MAKER

REMCOR "K" Model Ice/Beverage dispensers are designed to be used with one of several type top mount ice-makers. This must be obtained from the appropriate manufacturer.

Check with your REMCOR Sales Coordinator for a list of icemaker kits available. This kit will contain parts and instructions necessary to connect the icemaker to the ice dispenser.

INSTALLATION INSTRUCTIONS

1. The ice dispenser **must be sealed** to the counter. The template drawing (See Figure 2) indicates openings 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 drawings. Cut openings in the counter.

Apply a continuous bead of NSF *International* (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. On "BC" Models, the sink is shipped loose and is not to be sealed. This is needed for installation of the beverage system and for service.

2. "BC" Model beverage connections are made in the front of the unit. With the lower panel removed using the plumbing schematics (See Figures 6, 7, or 8) or schematic on the rear of the panel to determine syrup and water connections.
3. Carefully pull the beverage tubes, drain line and power cord through the large opening in the bottom of the unit.
4. "K" Models only: Install ice maker according to instructions supplied with kit and manufacturer's instructions supplied with ice maker.
5. 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.
6. Connect the beverage system product lines as indicated (See Figures 4 or 5). This work should be done by a qualified service person.
7. Clean the hopper interior (See CLEANING INSTRUCTIONS on pages 11 through NO TAG).
8. Connect the power cord to a 115 volt, 60 cycle, 3-wire grounded receptacle. All electrical wiring must conform to national and local electrical codes.

GATE RESTRICTOR PLATE



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

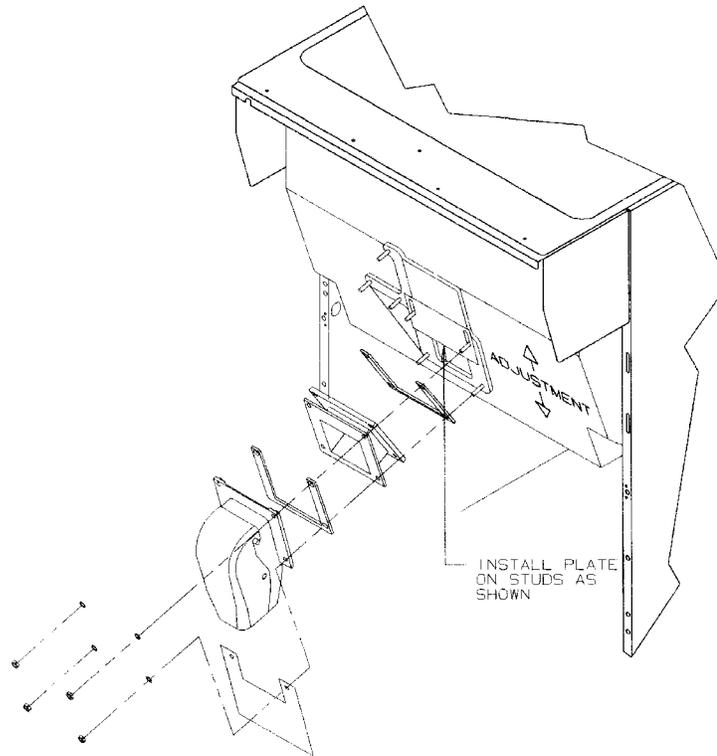
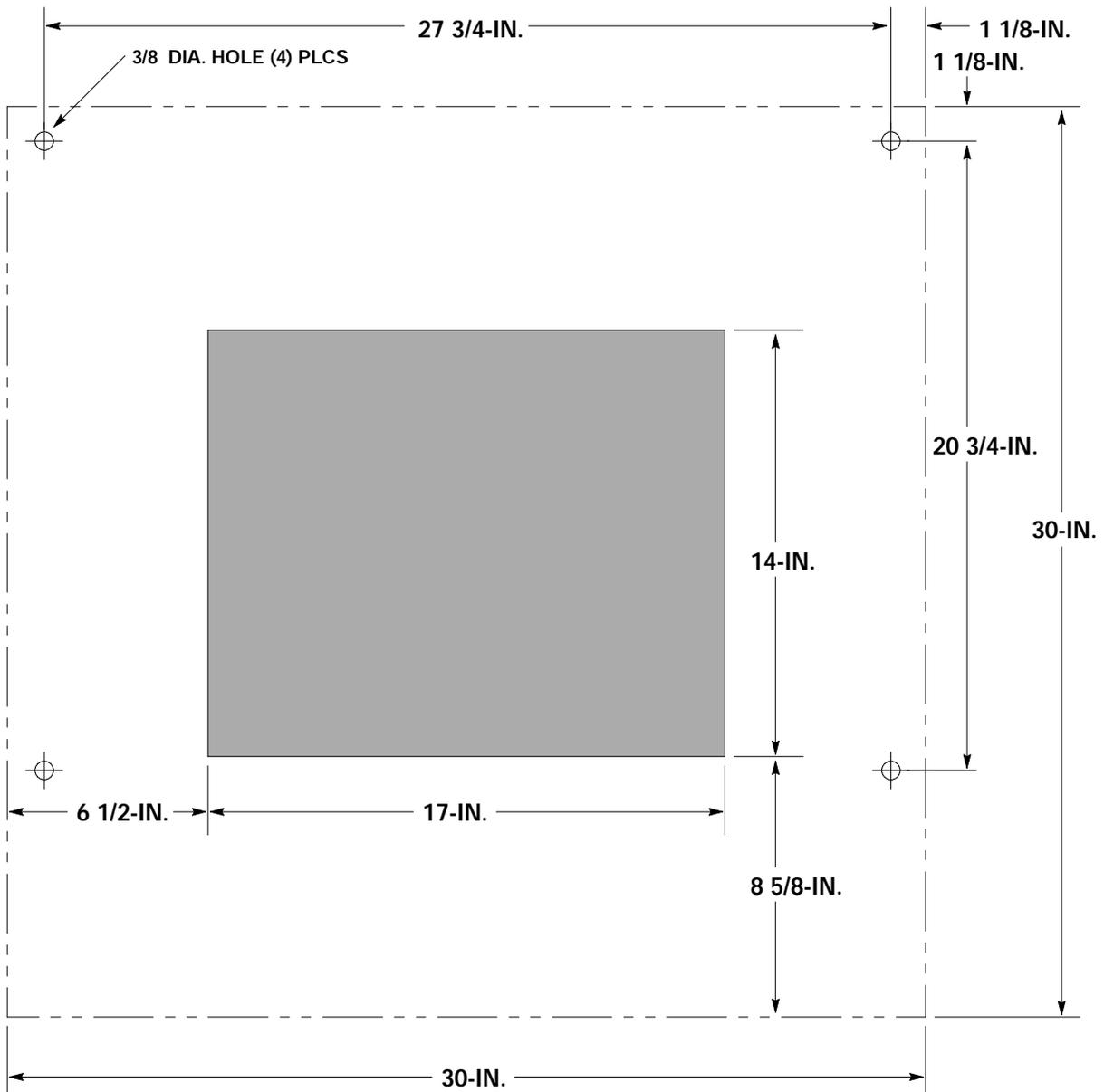


FIGURE 1. GATE RESTRICTOR PLATE

ADJUSTMENT

This dispenser is provided with a gate restrictor plate (Figure1), 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, refer to troubleshooting guide on (page 14).



NOTE:
SHADED AREA INDICATE OPENINGS
IN CABINET BOTTOM NEEDED FOR
UTILITIES AND BEVERAGE TUBING

FIGURE 2. MOUNTING TEMPLATE

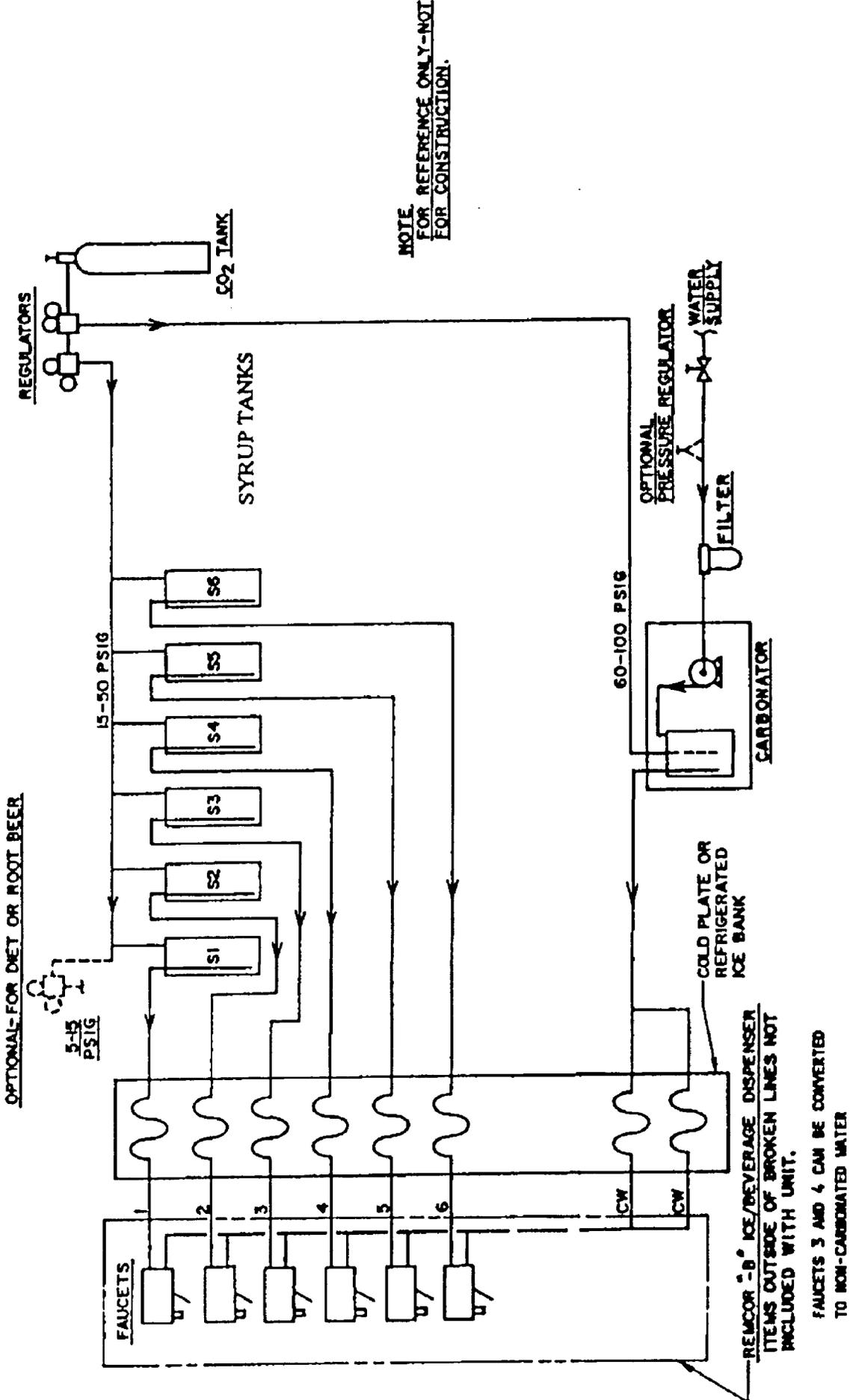
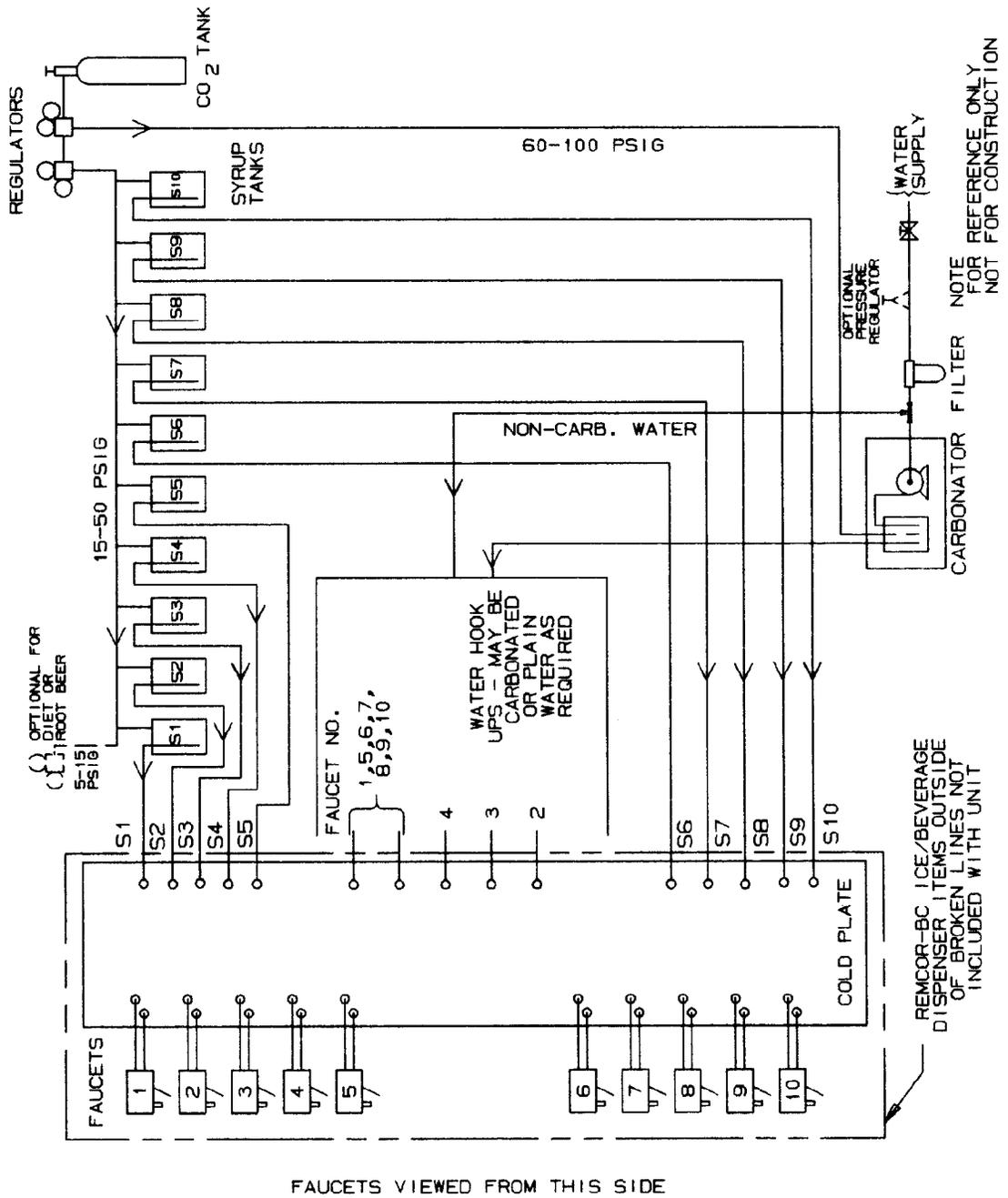
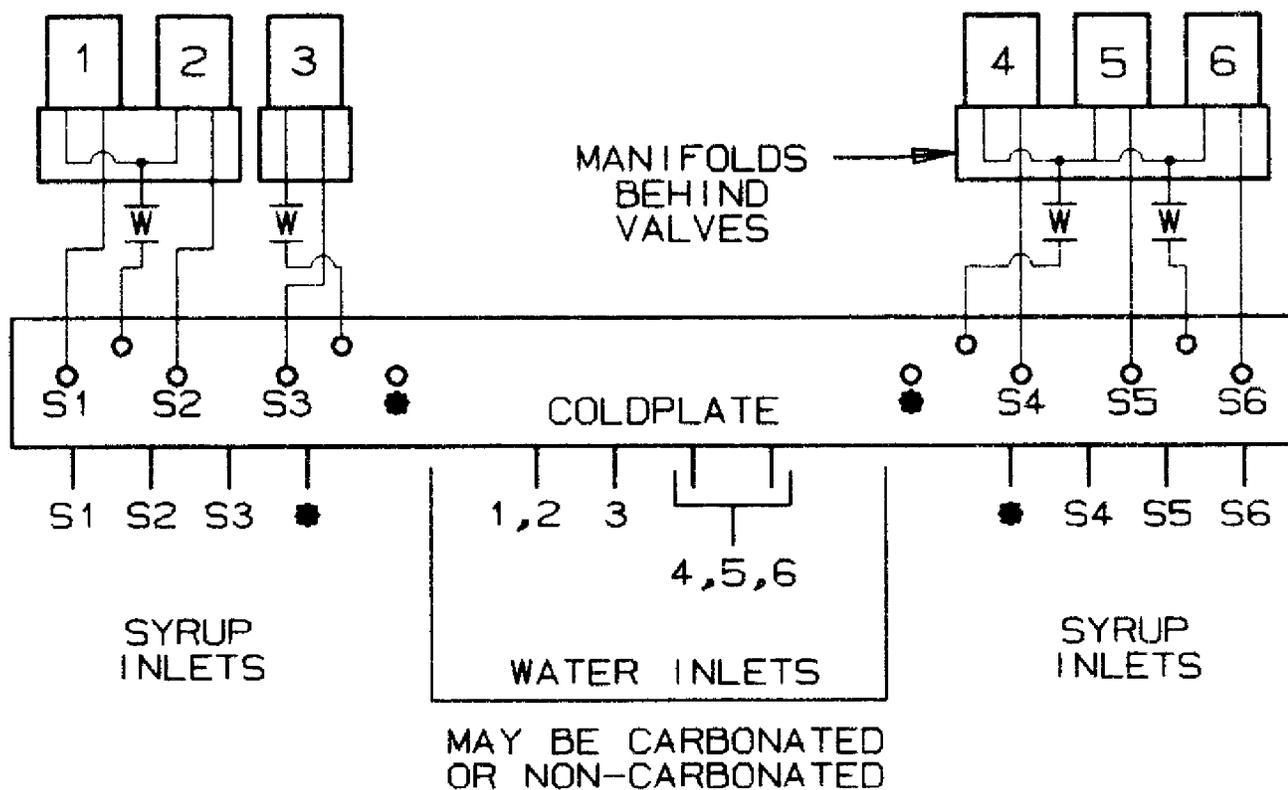


FIGURE 4. BEVERAGE SYSTEM SCHEMATIC



NOTE SEE PLUMBING SCHEMATIC LABEL UNDER LOWER PANEL FOR APPROPRIATE HOOK UP. (SEE MANUAL)

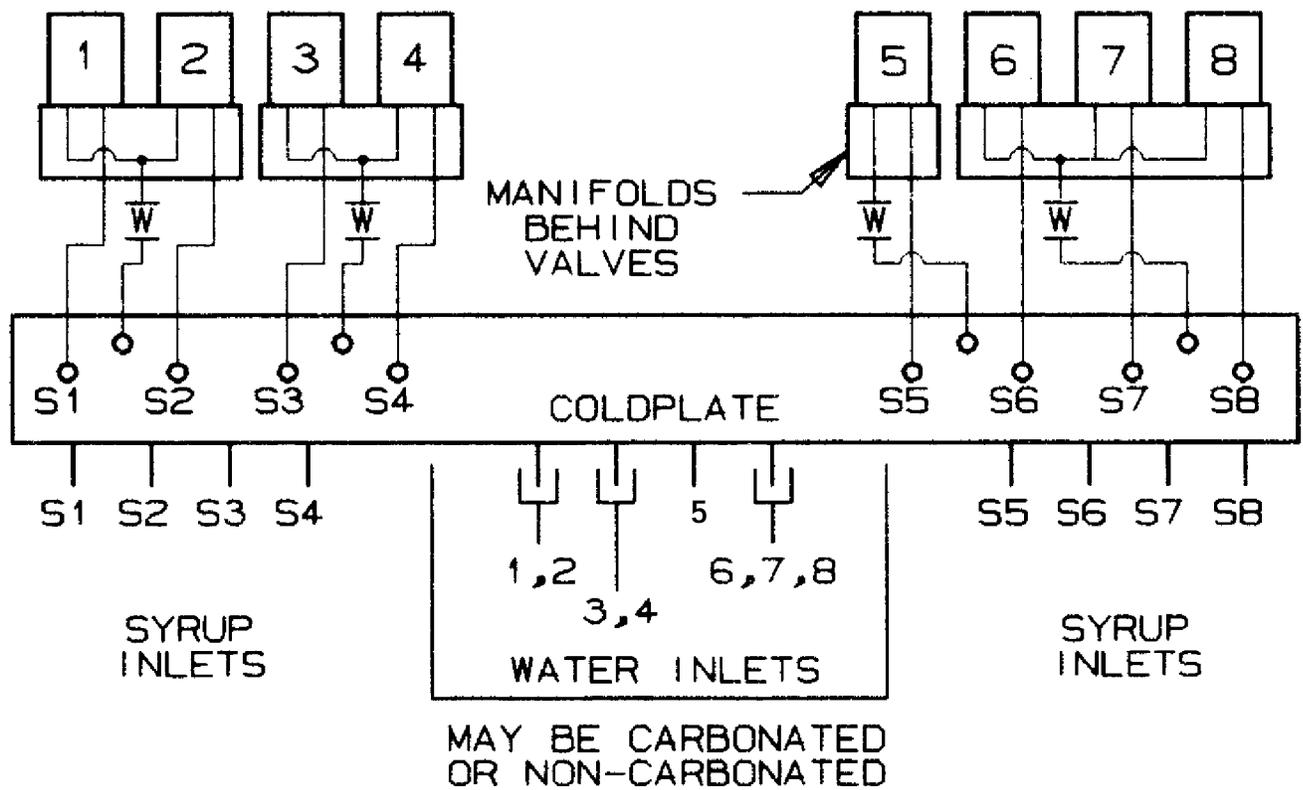
FIGURE 5. BEVERAGE SYSTEM SCHEMATIC - BC MODEL



NOTE:

- 1) TO SERVICE COLDPLATE INLET FITTINGS, SINK HAS TO BE REMOVED. TO REMOVE, DISCONNECT SINK DRAIN CONNECTIONS, THEN LIFT TWO (2) SIDE MOUNTING PINS AND PULL SINK FORWARD. REVERSE TO RECONNECT.
- 2) MAKE SURE ALL DRAIN CONNECTIONS ARE PROPERLY POSITIONED FOR DRAINING AFTER SERVICE, BEFORE PANELS ARE INSTALLED.
- 3) DO NOT USE INLETS.

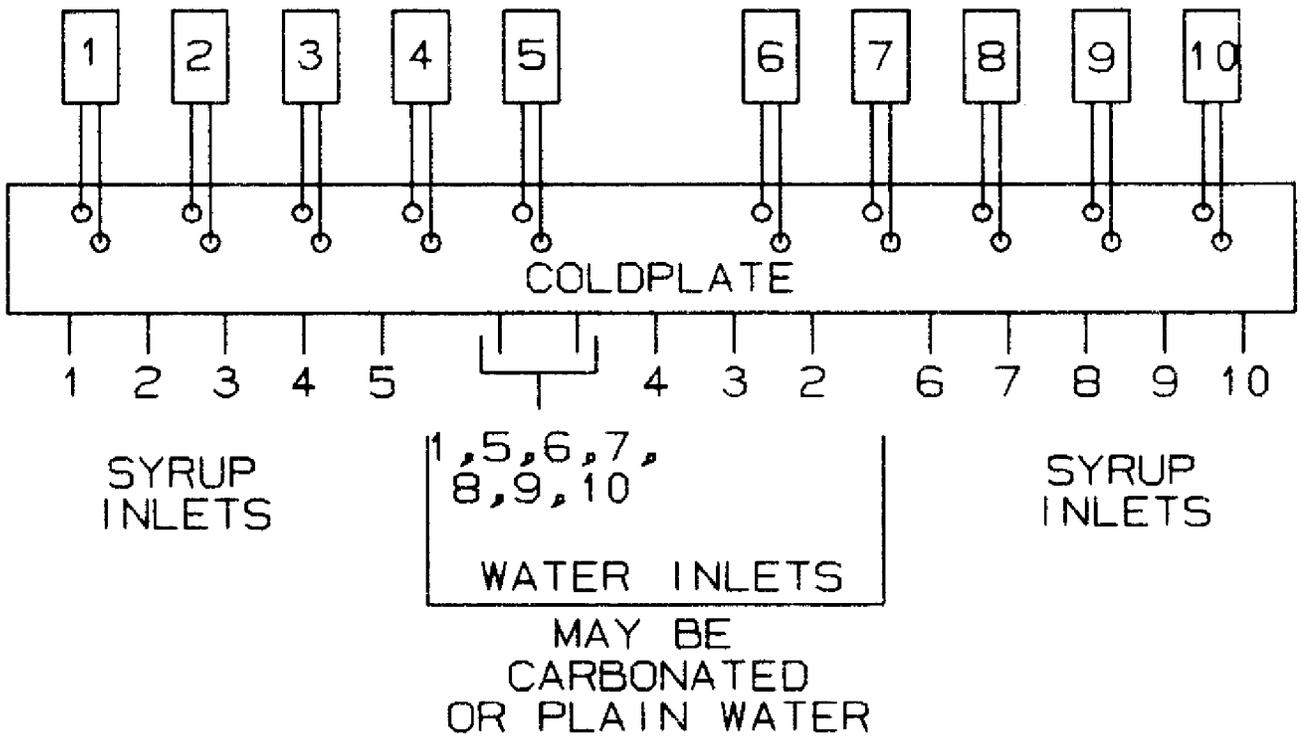
FIGURE 6. PLUMBING SCHEMATIC 6 FAUCETS



NOTE:

- 1) TO SERVICE COLDPLATE INLET FITTINGS, SINK HAS TO BE REMOVED. TO REMOVE, DISCONNECT SINK DRAIN CONNECTIONS, THEN LIFT TWO (2) SIDE MOUNTING PINS AND PULL SINK FORWARD. REVERSE TO RECONNECT.
- 2) MAKE SURE ALL DRAIN CONNECTIONS ARE PROPERLY POSITIONED FOR DRAINING AFTER SERVICE, BEFORE PANELS ARE INSTALLED.

FIGURE 7. PLUMBING SCHEMATIC 8 FAUCETS



NOTE:

- 1) TO SERVICE COLDPLATE INLET FITTINGS, SINK HAS TO BE REMOVED. TO REMOVE, DISCONNECT SINK DRAIN CONNECTIONS, THEN LIFT TWO (2) SIDE MOUNTING PINS AND PULL SINK FORWARD. REVERSE TO RECONNECT.
- 2) MAKE SURE ALL DRAIN CONNECTIONS ARE PROPERLY POSITIONED FOR DRAINING AFTER SERVICE, BEFORE PANELS ARE INSTALLED.

FIGURE 8. PLUMBING SCHEMATIC 10 FAUCETS

MAINTENANCE

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

DAILY or as required

Remove foreign material from the 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. For "BC" models with a built-in cold plate, dispense several large cups of ice (approximately 20 to 30 seconds total dispensing time) to allow ice to fill the cold plate. Add ice to the hopper as necessary to refill then replace the lid. Allow 10 to 15 minutes for the cold plate to cool down. Repeat this procedure whenever the dispenser has been standing overnight or other long periods without ice use. On "B" and "BC" models start up the beverage system and adjust faucets to the proper brix. Contact your local distributor for complete information on the beverage system.

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

For automatic ice filling "K" models, 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 and the icemaker manual for location and operation of the icemaker control.



CAUTION: Use caution to avoid spilling ice when filling dispenser. Immediately clean up any spilled ice from filling or operation of 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 damage the plastic material.

DISPENSER All Models

1. Clean the ice storage hopper at least once a month.

2. Lift off the agitator assembly. Wash and rinse them thoroughly.
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. Remove Ice Chute cover as follows:
 - A. Flex sides outward to disengage lower pins.
 - B. Lift Ice Chute cover to disengage upper pins.
 - C. Lower Ice Chute cover down out of unit. Note: it may be helpful to twist cover slightly.
8. Clean the inside of the ice chute and ice chute cover with a mild detergent solution and rinse thoroughly to remove all traces of detergent.
9. Reverse steps above to reassemble ice chute.
10. Sanitize as described in Step 5.

COLD PLATE (-BC MODELS)

1. Carefully remove screws holding beverage faucet panel and bring forward.
2. Slide the cold plate cover back. (Remove shipping tape and discard.)
3. Remove any debris from the drain trough and spring. Check that the drain hole is not clogged.
4. Wash down the inside of the cold plate, tray and cover with a mild detergent solution and rinse. A small, long-handled brush will be found helpful in reaching the corners.
5. Slide the cover forward, taking care that it is securely positioned on the cold plate.
6. Replace beverage faucet panel.

BEVERAGE SYSTEM CLEANING AND SANITIZING INSTRUCTIONS

1. Prepare the following cleaning, rinsing and sanitizing solutions using a clean, empty figal (5 gallon syrup tank) for each solution.

CLEANING TANK – Fill with a solution of 1/2 ounce of a mild liquid detergent (for example, Ivory liquid) to 1 gallon of warm (120°F) potable water.

RINSING TANK – Fill with warm (120°F) potable water.

SANITIZING TANK – Fill with a chlorine sanitizing solution in the strength of 1/2 ounce of household bleach (sodium hypochlorite) to 1 gallon of cold (ambient) potable water to obtain a solution strength of 200 PPM.

NOTE: Repeat the following procedure on each of the unit's syrup product lines and beverage faucets.

2. Using a suitable pail or bucket, fill one with a detergent solution and a second container with a sanitizing solution in the strengths as described in step 1.
 - A. Remove the syrup line quick disconnect fitting from the product tank and submerge in the detergent solution. Clean with a nylon bristle brush (do not use a wire brush). Rinse with clean potable water.

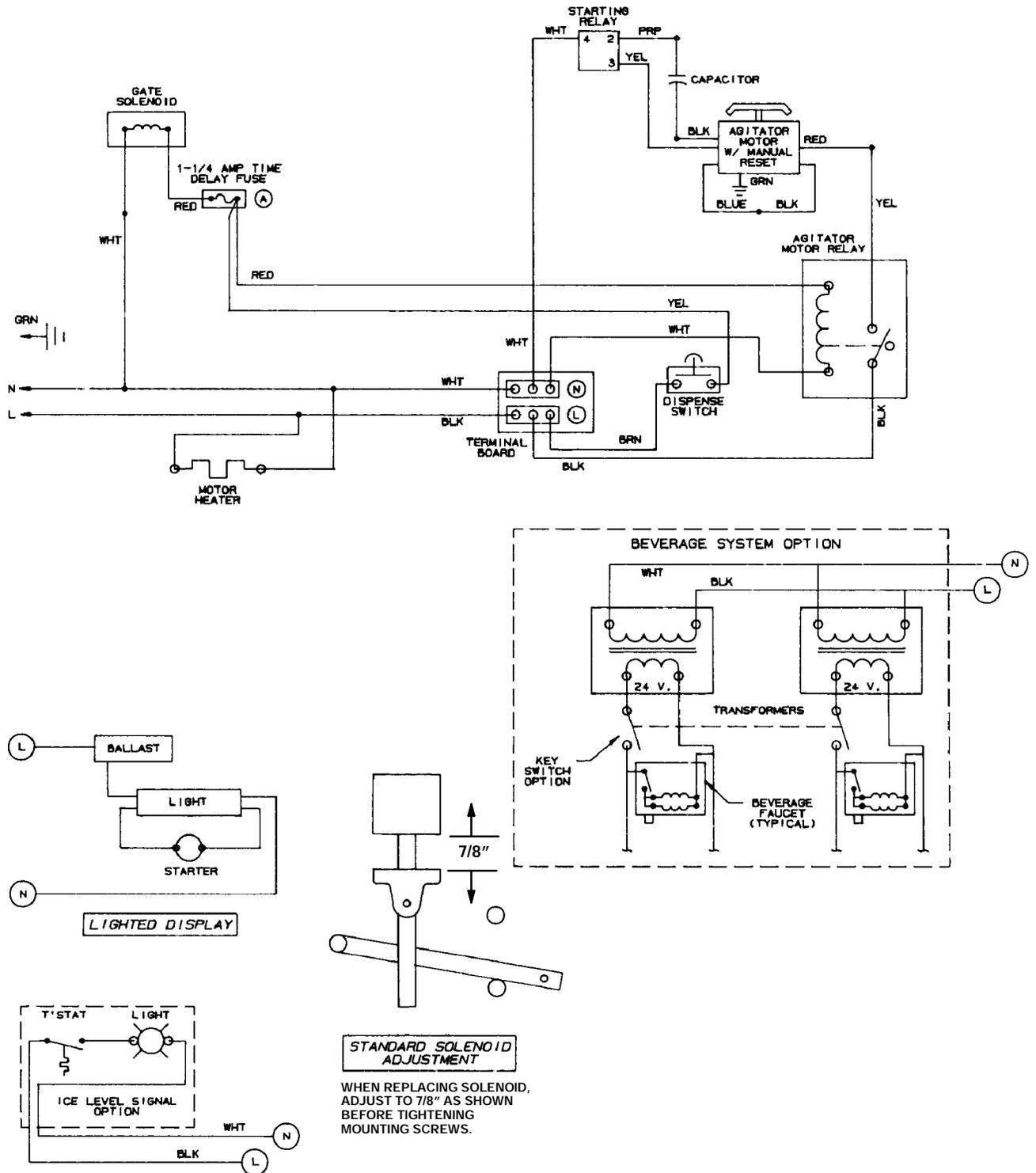
- B. Wearing sanitary gloves, next submerge the quick disconnect fitting in the sanitizing container for 15 minutes. Remove and air dry.
3. Hook-up the sanitized product line fitting (step 2) to the cleaning tank. Hook-up a gas disconnect fitting to the tank and pressurize with 60 to 80 psig CO₂. Energize the beverage faucet continuously for 1 minute to remove all air bubbles. Continue to operate the faucet until liquid dispensed is free of any syrup. Cycle the faucet for 15 seconds on, off and then immediately on again. Repeat this procedure for 15 cycles. Then energize the faucet to remain flowing for 3 minutes.
 4. Hook-up the rinsing tank and pressurize with 60 to 80 psig CO₂. Flush the cleaning solution from the product line by cycling the faucet as described in step 3 and then energize the faucet to flow continuously for 3 minutes.
 5. Hook-up the sanitizing tank and pressurize with 60 to 80 psig CO₂. Flow the sanitizing solution through the beverage faucet by cycling the faucet as described in step 3. Next energize the faucet continuously to flush at least 2 cups of the sanitizing solution through the system. Finally deenergize the faucet and allow the sanitizer to remain pressurized in the line to 20 minutes.
 6. Wearing sanitary gloves, remove the faucet nozzle and diffuser. Repeat the cleaning and sanitizing procedures as described in step 2, then reassemble to the faucet.
 7. Disconnect the sanitizing tank. Hook-up the product tank to the unit and to the CO₂ system. Energize the faucet to flush the sanitizing solution from the syrup line and the faucet. Continue flow on the faucet until only syrup is dispensed.

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

Trouble	Probable Cause
BLOWN FUSE OR CIRCUIT BREAKER	<ul style="list-style-type: none"> A. Short circuit in wiring. B. Defective gate solenoid. C. Defective agitator motor.
GATE DOES NOT OPEN.	<ul style="list-style-type: none"> A. No power. B. Bent depressor plate (does not actuate switch). C. Defective dispensing switch. D. Blown/defective fuse or jammed gate solenoid.
GATE DOES NOT OPEN OR IS SLUGGISH. AGITATOR TURNS.	<ul style="list-style-type: none"> A. Defective gate solenoid. B. Weak gate spring. C. Excessive pressure against gate slide.
GATE OPENS. AGITATOR DOES NOT TURN.	<ul style="list-style-type: none"> A. Ice solidified in hopper. B. Defective agitator motor. C. Defective capacitor. D. BC models only: defective agitation timer.
ICE DISPENSES CONTINUOUSLY.	<ul style="list-style-type: none"> A. Stuck or bent depressor plate (does not release switch). B. Defective dispensing switch. C. Improper switch installation.
SLUSHY ICE. WATER IN HOPPER.	<ul style="list-style-type: none"> A. Blocked drain. B. Unit not level. C. Poor ice quality due to water quality or icemaker problems D. Improper use of flaked ice.
BEVERAGES DO NOT DISPENSE	<ul style="list-style-type: none"> A. No 24 volt power to faucets. B. No CO₂ pressure.
BEVERAGES TOO SWEET.	<ul style="list-style-type: none"> A. Carbonator not working. B. No CO₂ pressure in carbonator. C. Faucet brix requires adjusting.
BEVERAGES NOT SWEET ENOUGH.	<ul style="list-style-type: none"> A. Empty syrup tank. B. Faucet brix requires adjusting.
BEVERAGES NOT COLD (UNITS WITH BUILT-IN COLD PLATE).	<ul style="list-style-type: none"> A. Unit standing with no ice in hopper, no ice in cold plate cabinet.

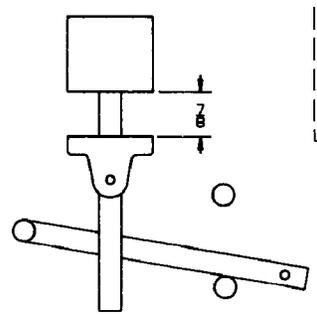
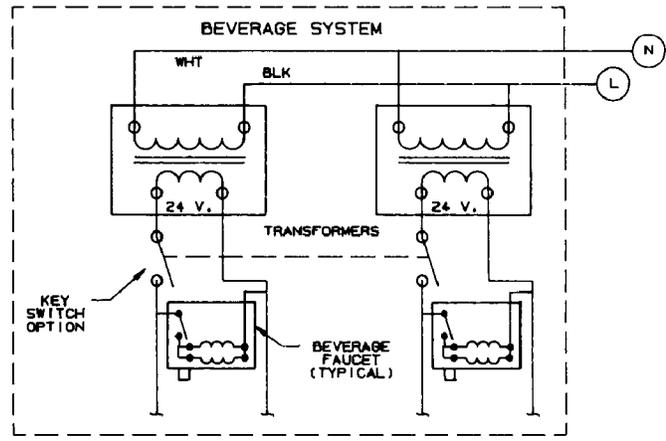
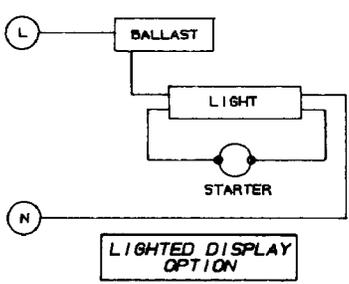
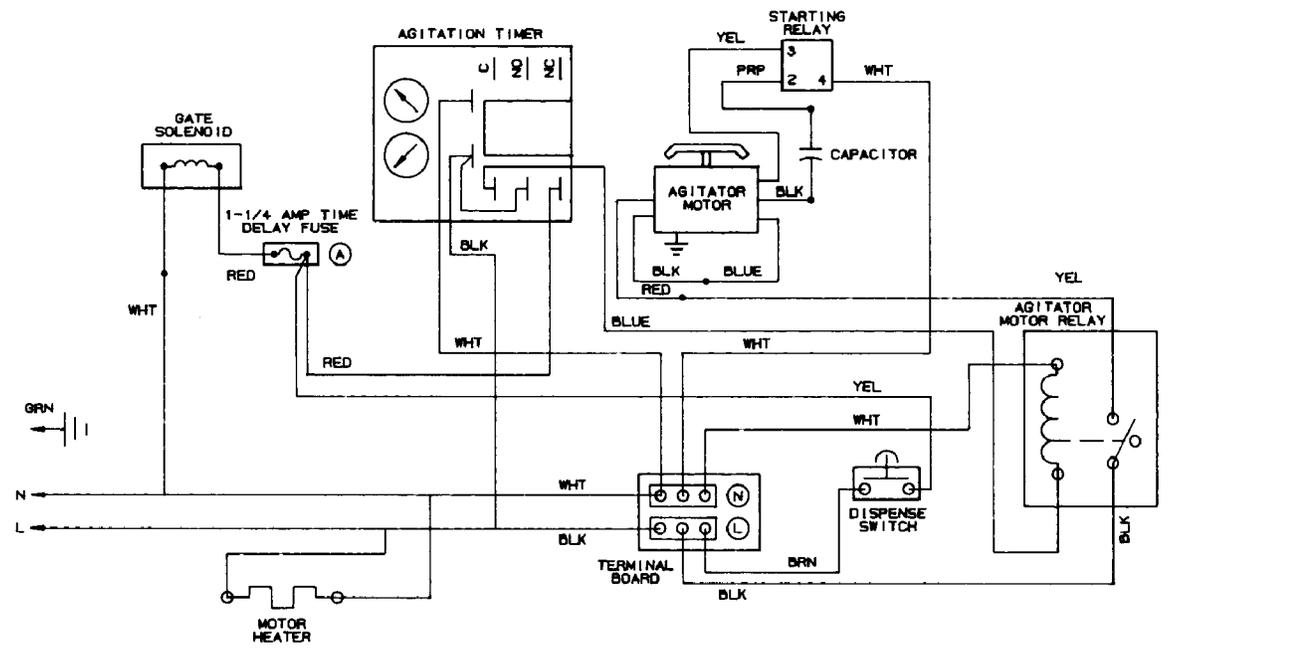
Contact your local syrup or beverage equipment distributor for additional information and troubleshooting of your beverage system.



SERVICE INFORMATION

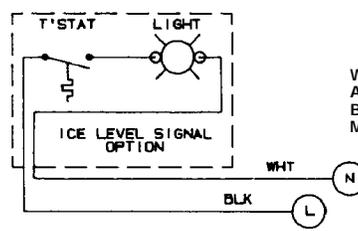
DANGER! ELECTRIC SHOCK HAZARD. DISCONNECT POWER BEFORE SERVICING UNIT.

FIGURE 9. WIRING DIAGRAM ICE ONLY AND "B" MODELS



STANDARD SOLENOID ADJUSTMENT

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



SERVICE INFORMATION

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

FIGURE 10. WIRING DIAGRAM "C" AND "K" MODELS

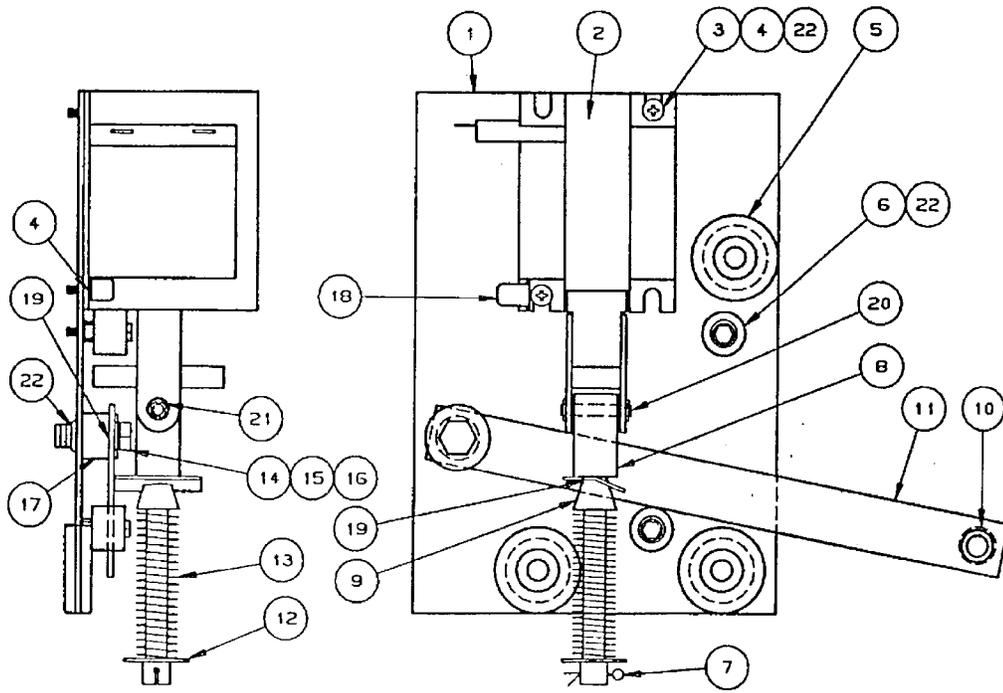


FIGURE 11. SOLENOID ASSEMBLY

Index No.	Part No.	Quantity	Description
1	21493	1	Solenoid Mounting Plate
2#	31551	1	Solenoid Service Kit
3	70171	2	8-32 x 3/8 Phil Tr HD Screw
4	70121	2	No. 8 Lockwasher
5	50752	3	Isolator
6*	50789	2	Bumper Assembly (Gate Stop)
7*	70423	1	Cotter Pin
8*	10080	1	Gate Lift Rod
9	10081	1	Gate Lift Rod Bushing
10	50754	1	Gate Arm Bearing
11	21492	1	Gate lift Arm
12	70043	1	Flatwasher
13*	70422	1	Spring
14	70263	1	1/4-20 x 3/4 Hex Hd Screw
15	70048	1	1/4 Lockwasher
16	70066	1	1/4 Flatwasher
17	10077	1	Pivot Bearing
18	30227	1	1/4 Quick Connect Tab
19	50305	--	Lubricant
20*	21592	1	Solenoid Linkage Pin
21*	70433	2	Retainer Ring
22	50188	--	Loctite
--*	70438	--	Rebuilding Kit

NOTE: * Parts supplied with rebuilding kit.
 # 31551 solenoid supplied with items 20 & 21.

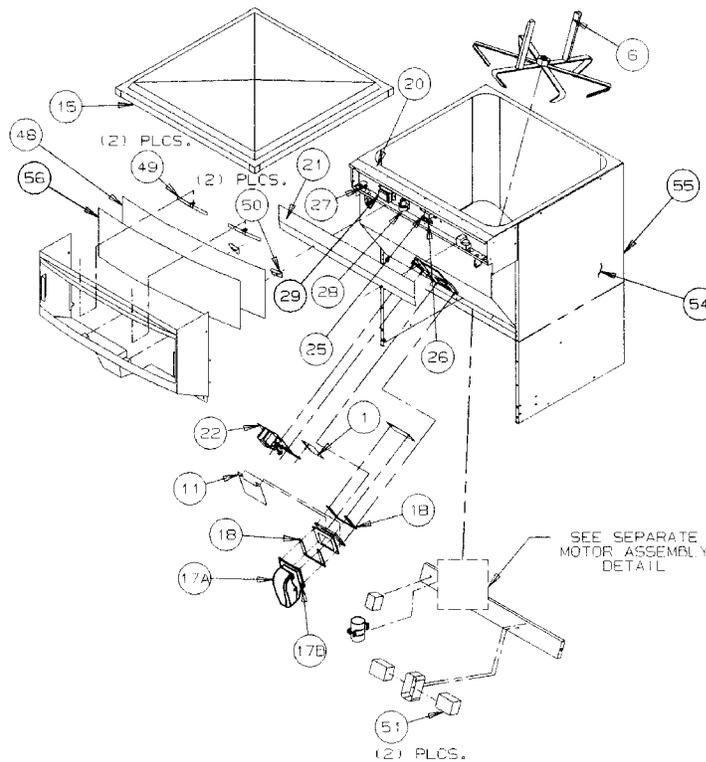


FIGURE 12. EXPLODED VIEW - UPPER SECTION AND PARTS LIST

Item No.	Part No.	Name
1	21491	Gate Slide
6	28075	Agitator
11	52239	Foam Shield
15	52154	Lid - Gray
17	53015	Ice Chute (Clear) Back Section
	53016	Ice Chute Cover
18	51891	Gate Gasket
20	90295	Cleaning label
21	91680	Wiring Diagram (Pull Solenoid)
	91699	Wiring Diagram (Rotary Solenoid See Figure NO TAG)
22	31093	Gate Solenoid Assembly (See Figure NO TAG)
	32954	Rotary Gate Solenoid (See Figure NO TAG)
25	31763	Agitation Timer
26	31406	Fuse, Gate Solenoid
27	31620	Fluorescent Starter
28	31375	Relay Mercury
29	31521	Ballast
48	52180	Panel, Plexiglass DB200
	52171	DB275
423	28235	Assembly, Retainer
50	28313	Hold Down, Graphics
51	32682	Transformer Ass'y (See Note)
54	91888	Decal,, Side Coke DB200
	91697	DB275
55	91889	Decal, Rear Coke DB200
56	91691	Graphics, Coca-Cola DB200
	91683	DB275

NOTE: For units manufactured before October 15, 1993 order part number 33087 transformer kit. This includes a 32682 transformer and two (2) 33084 harnesses.

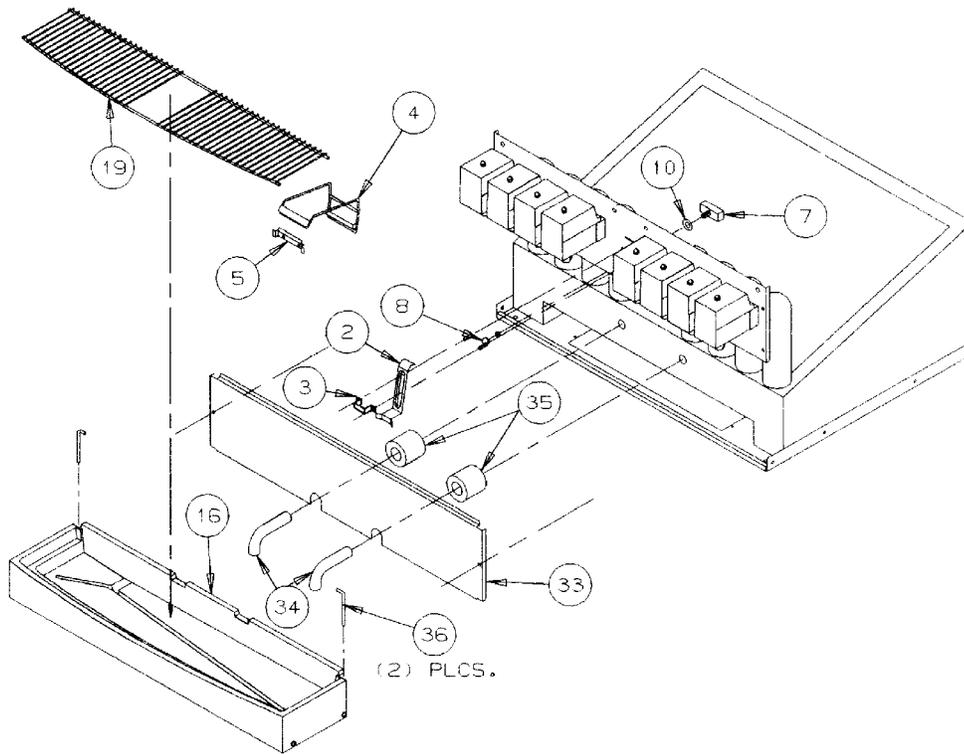


FIGURE 13. EXPLODED VIEW - LOWER SECTION AND PARTS LIST

Item No.	Part No.	Name
2	21515	Depressor Lever - Cup Activated
3	22644	Depressor Retainer (for 21515)
4	27126	Depressor Push Lever
5	27107	Depressor Retainer (for 27126)
7	02070	Depressor Switch Kit
8*	31007	Switch Boot
10*	70847	Switch Spacer
16	52216	Sink - Gray
19	70912	Sink Grill
33	28080	Panel Lower
34	52203	Tube, Cold Plate Drain
35	52201	Insulation, Cold Plate Drain
36	10145	Pin, Sink Extension
Faucet Assembly		
	28223	Panel, 6 Beverage Valves
	28079	Panel, 8 Beverage Valves
	28843	Panel, 10 Beverage Valves
	40944	Beverage Valve, Lancer Lever
	41050	Beverage Valve - Lancer Push Button
	41084	Fitting 90° Inlet
	40704	Plain Water Plug
	40408	Block Mounting Screw 10-32 x 1-1/4

NOTE: * Parts supplied with Dispenser Switch Kit, P/N 02070.

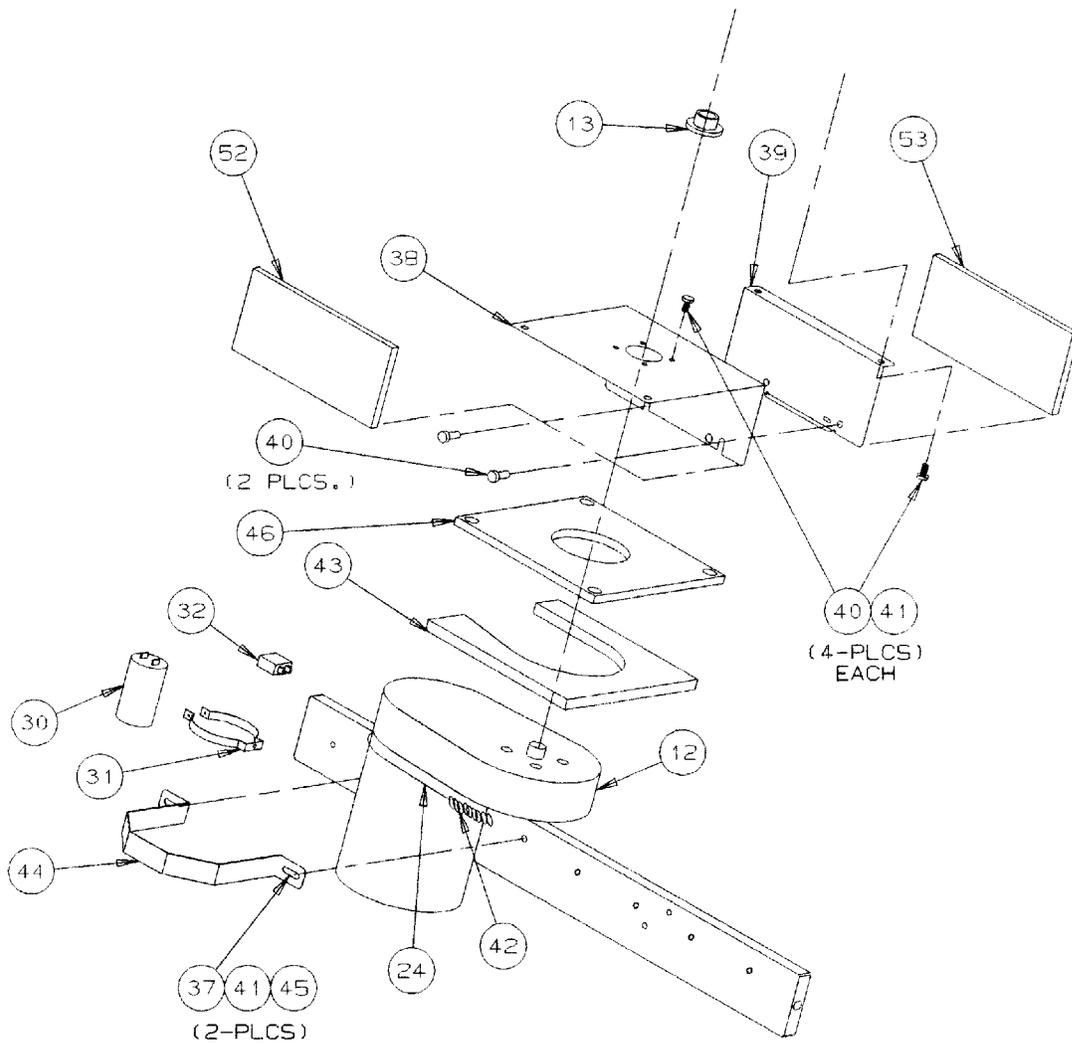


FIGURE 14. MOTOR ASSEMBLY DETAIL AND PARTS LIST

Item No.	Part No.	Name
12	32939	Agitator Motor
13	51101	Motor Shaft Seal
24	30794	Agitator Motor Heater
30	33160	Capacitor
31	70963	Clamp
32	33162	Relay
37	70032	1/4-20 x 1/2 Zinc Plated HH Screw
38	28377	Bracket, Back, Motor Plate
39	28378	Bracket, Motor Plate
40	70250	1/4-20 x 1/2 Truss Hd Phl MS Screw
41	70048	1/4 Int tooth Lw Plated
42	70341	Spring
43	52777	Insulation, Motor
44	28210	Bracket, Motor
45	70061	5/16 ID x 3/4 OD x 1/16 Washer
46	52776	Insulation, Motor plate
52	52778	Motor Plate Insulation, 3/8 Thick
53	52779	Motor Plate Insulation, 3/4 Thick



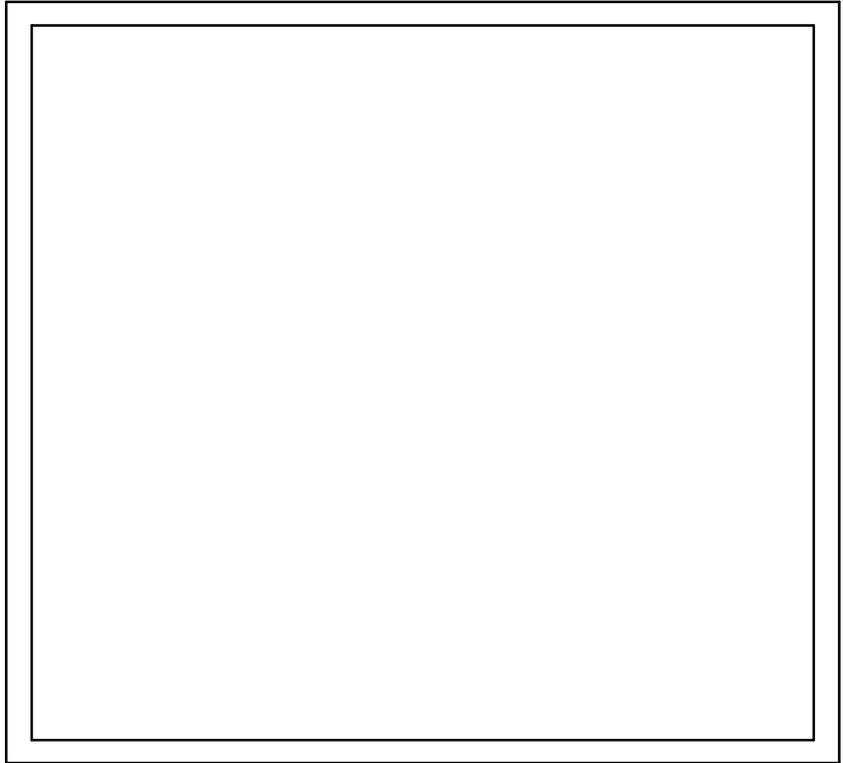
REMCOR PRODUCT COMPANY
500 Regency Drive
Glendale Heights, IL 60139-2268
Telephone (708) 980-6900
Facsimile (708) 980-8511

WARRANTY

REMCOR warrants that all equipment and parts are free from defects in material and workmanship under normal use and service. For a copy of the warranty applicable to your REMCOR product, in your country, please write, fax or telephone the IMI Cornelius office nearest you. Please provide the equipment model number and the date of purchase.

IMI Cornelius Offices

AUSTRALIA ● P.O. 210, ● RIVERWOOD, ● NSW 2210, AUSTRALIA ● (61) 2 533 3122 ● FAX (61) 2 534 2166
AUSTRIA ● AM LANGEN FELDE 32 ● A-1222 ● VIENNA, AUSTRIA ● (43) 1 233 520 ● FAX (43) 1-2335-2930
BELGIUM ● BOSKAPELLEI 122 ● B-2930 BRAASCHAAT, BELGIUM ● (32) 3 664 0552 ● FAX (32) 3 665 2307
BRAZIL ● RUA ITAOCARA 97 ● TOMAS COELHO ● RIO DE JANEIRO, BRAZIL ● (55) 21 591 7150 ● FAX (55) 21 593 1829
ENGLAND ● TYTHING ROAD ALCESTER ● WARWICKSHIRE, B49 6 EU, ENGLAND ● (44) 789 763 101 ● FAX (44) 789 763 644
FRANCE ● 71 ROUTE DE ST. DENIS ● F-95170 DEUIL LA BARRE ● PARIS, FRANCE ● (33) 1 34 28 6200 ● FAX (33) 1 34 28 6201
GERMANY ● CARL LEVERKUS STRASSE 15 ● D-4018 LANGENFELD, WEST GERMANY ● (49) 2173 7930 ● FAX (49) 2173 77 438
GREECE ● 488 MESSOGION AVENUE ● AGIA PARASKEVI ● 153 42 ● ATHENS, GREECE ● (30) 1 600 1073 ● FAX (30) 1 601 2491
HONG KONG ● 1104 TAIKOTSUI CENTRE ● 11-15 KOK CHEUNG ST ● TAIKOKTSUE, HONG KONG ● (852) 789 9882 ● FAX (852) 391 6222
ITALY ● VIA PELLIZZARI 11 ● 1-20059 ● VIMARCATE, ITALY ● (39) 39 608 0817 ● FAX (39) 39 608 0814
NEW ZEALAND ● 20 LANSFORD CRES. ● P.O. BOX 19-044 AVONDALE ● AUCKLAND 7, NEW ZEALAND ● (64) 9 8200 357 ● FAX (64) 9 8200 361
SINGAPORE ● 16 TUAS STREET ● SINGAPORE 2263 ● (65) 862 5542 ● FAX (65) 862 5604
SPAIN ● POLIGONO INDUSTRIAL ● RIERA DEL FONOLLAR ● E-08830 SANT BOI DE LLOBREGAT ● BARCELONA, SPAIN ● (34) 3 640 2839 ● FAX (34) 3 654 3379
USA ● ONE CORNELIUS PLACE ● ANOKA, MINNESOTA ● (612) 421-6120 ● FAX (612) 422-3255



REMCOR[®]

CORPORATE HEADQUARTERS:

Remcor Incorporated
500 Regency Drive
Glendale Heights, IL 60139
708. 980.6900