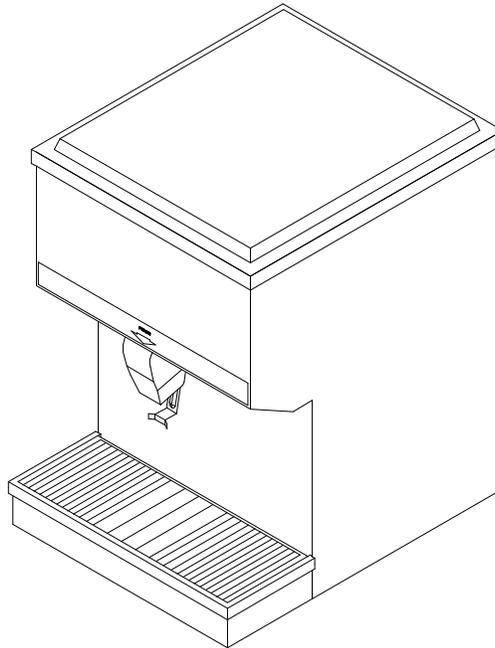




# ICE DISPENSER

## Model D100/D150

### Installation Manual



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**THIS DOCUMENT CONTAINS IMPORTANT INFORMATION**

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

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# 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 ensure 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 D150 ice dispensers solve your ice and beverage service needs in sanitary, space saving, economical ways. 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 and hard-chipped or cracked ice.

**Table 1. Specifications**

Model:	D100	D150
Ice Storage:	100 lbs.	150 lbs.
Electrical:	120/1/60 3 Amp	120/1/60 3 Amp
Drain	3/4” FPT	3/4” FPT
Connection:		
Electrical	6', 3-Wire Cord with 3-Prong Ground	6', 3-Wire Cord with 3-Prong Ground
Connection:	Type Plug	Type Plug
Dimensions:	22”W x 29-3/4”D x 30-1/2”H	22”W x 29-3/4”D x 32-3/4”H

# INSTALLATION INSTRUCTIONS

1. \*Locate the dispenser indoors on a level counter top. Unpack the four (4) legs and install them into the threaded holes provided in the bottom of the unit.
2. Connect the 3/4" IPS (or equal) drain line to the 3/4" threaded drain connections at the lower rear of the unit. This line must pitch downward to an open drain and must contain no traps or improper drainage will result.
3. Clean the hopper interior. (see CLEANING INSTRUCTIONS).
4. Connect the power cord to a 120 volt, 60 hertz, 3-wire grounded receptacle. All electrical wiring must conform to national and local electrical codes.

\*Figure 2 shows the mounting template for those who desire to mount dispensers on a counter.

## 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

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1. Clean the ice dispenser interior 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.
6. 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.
7. 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.
8. Reverse steps above to reassemble ice chute.
9. Sanitize as described in Step 5.

# OPERATING INSTRUCTIONS

## START-UP AND OPERATING INSTRUCTIONS

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Fill the hopper with ice and replace the lid. Pushing the dispenser lever will cause ice to flow from the ice chute. Ice flow will continue until the lever is released. If ice does not dispense see the TROUBLESHOOTING GUIDE to find the cause.

**NOTE: Use caution to avoid spilling when filling dispenser. Immediately clean up 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.**

## MAINTENANCE

### PERIODIC CLEANING

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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).

**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.**

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

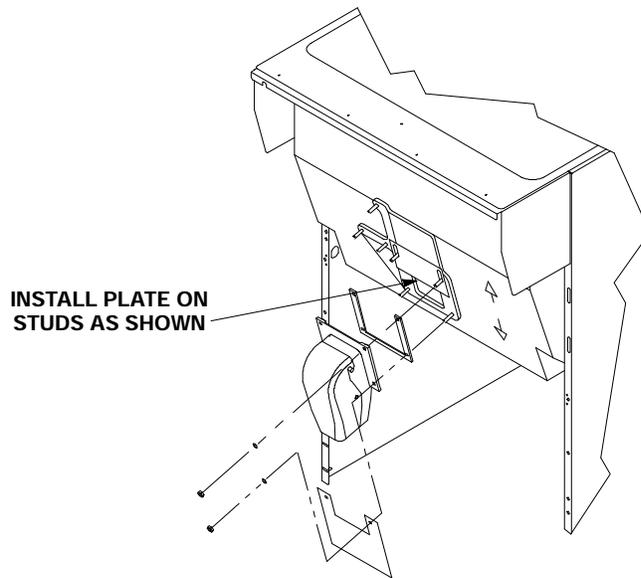
After checking the above, refer to the TROUBLESHOOTING GUIDE for possible problem causes and corrective action.

## GATE RESTRICTOR PLATE

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



**FIGURE 1. GATE RESTRICTOR PLATE**

## ADJUSTMENT

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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.

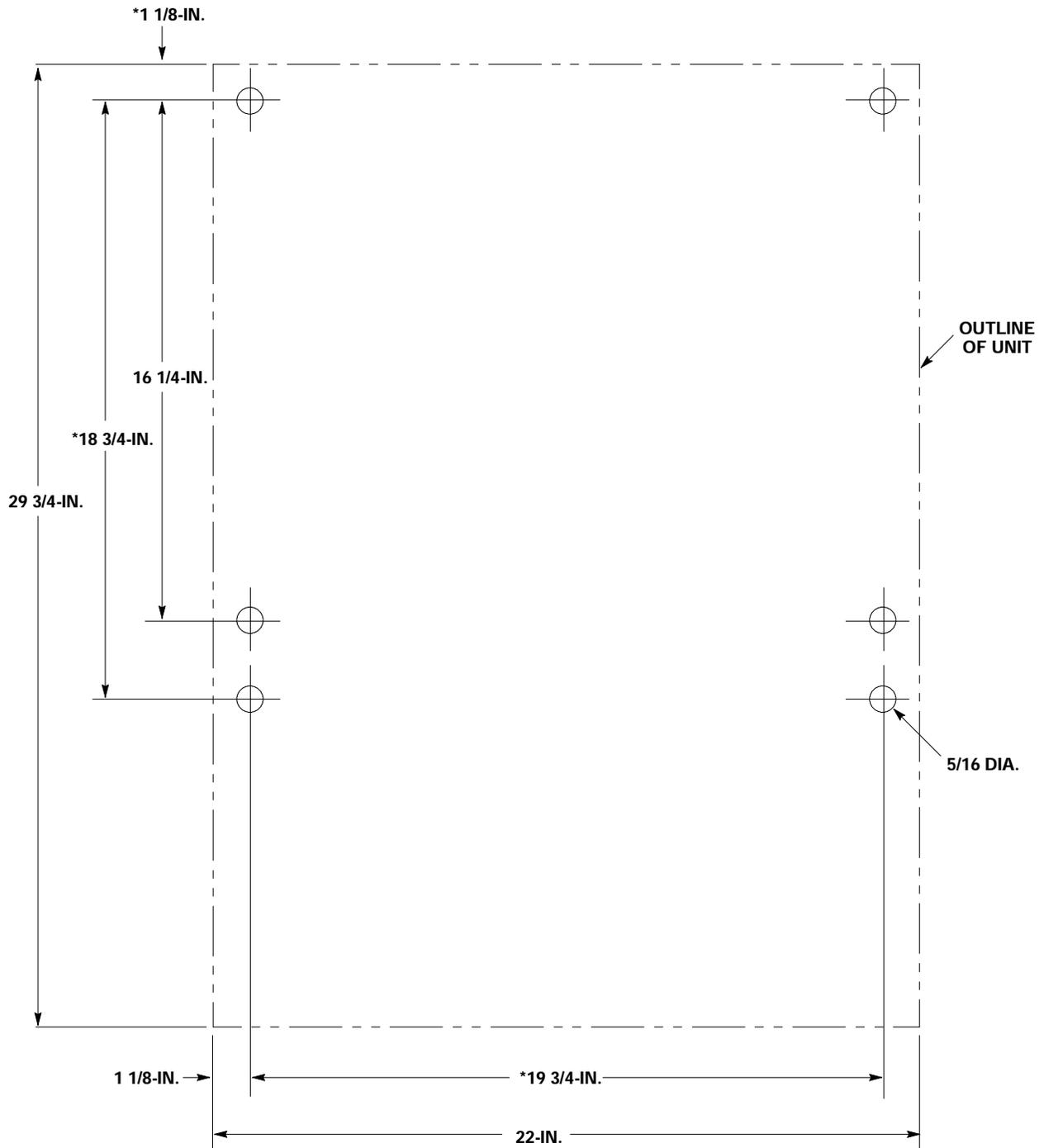
If the dispenser fails to dispense the ice when operating, check that the hopper has ice in it and that power is being supplied to the unit. If the problem persists, check the following.

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

# TROUBLESHOOTING GUIDE

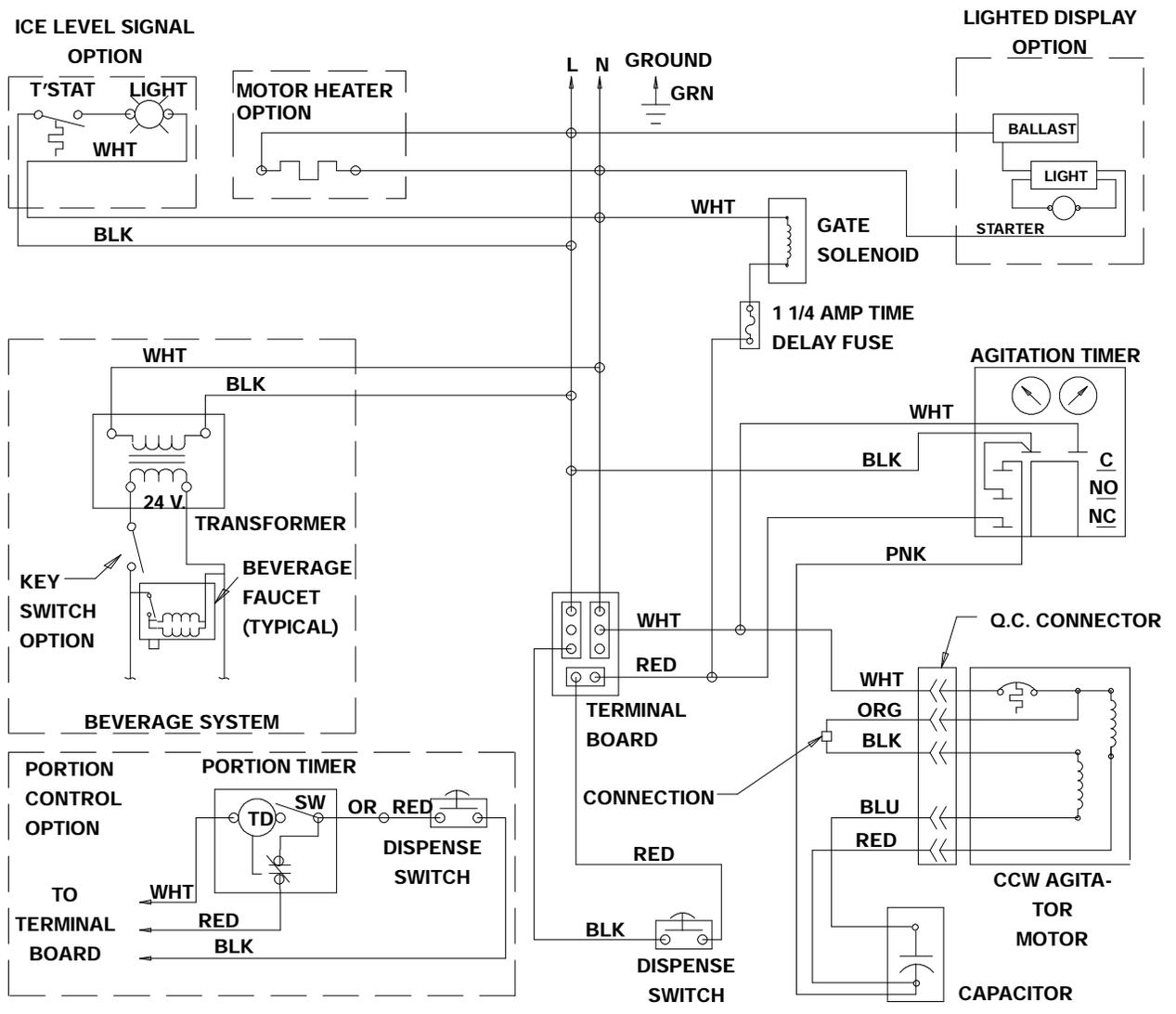
Should your unit fail to operate properly, check that there is power to the unit and that the hopper contains ice. If the unit does not dispense, check the following chart under the appropriate symptoms to aid in locating the defect.

Trouble	Probable Cause	Remedy
BLOWN FUSE OR CIRCUIT BREAKER.	A. Short circuit in wiring.	A. Repair wiring.
	B. Defective gate solenoid.	B. Replace gate solenoid.
	C. Defective agitator motor.	C. Replace agitator motor.
GATE DOES NOT OPEN. AGITATOR DOES NOT TURN.	A. No power.	A. Restore power.
	B. Bent depressor plate (does not actuate switch).	B. Replace depressor plate.
	C. Defective dispensing switch.	C. Replace dispensing switch.
GATE DOES NOT OPEN OR IS SLUGGISH. AGITATOR TURNS.	A. Defective gate solenoid.	A. Replace gate solenoid.
	B. Weak gate spring.	B. Replace gate spring.
	C. Excessive pressure against gate slide.	C. Reduce pressure against gate slide.
GATE OPENS. AGITATOR DOES NOT TURN.	A. Ice solidified in hopper.	A. Break up ice in hopper.
	B. Defective agitator motor.	B. Replace agitator motor.
ICE DISPENSES CONTINUOUSLY.	A. Stuck or bent depressor plate (does not release switch)	A. Replace depressor plate.
	B. Defective dispensing switch.	B. Replace dispensing switch.
	C. Improper switch installation.	C. Properly install switch.
SLUSHY ICE. WATER IN HOPPER.	A. Blocked drain.	A. Open drain.
	B. Unit not level.	B. Level unit.
	C. Poor ice quality due to water quality or ice-maker problems.	C. Clean hopper, then replace ice.



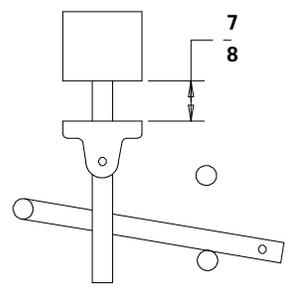
NOTE: \* Leg mounting locations for ref (5/16-18 threads)

FIGURE 2. MOUNTING TEMPLATE D150



**SERVICE INFORMATION**

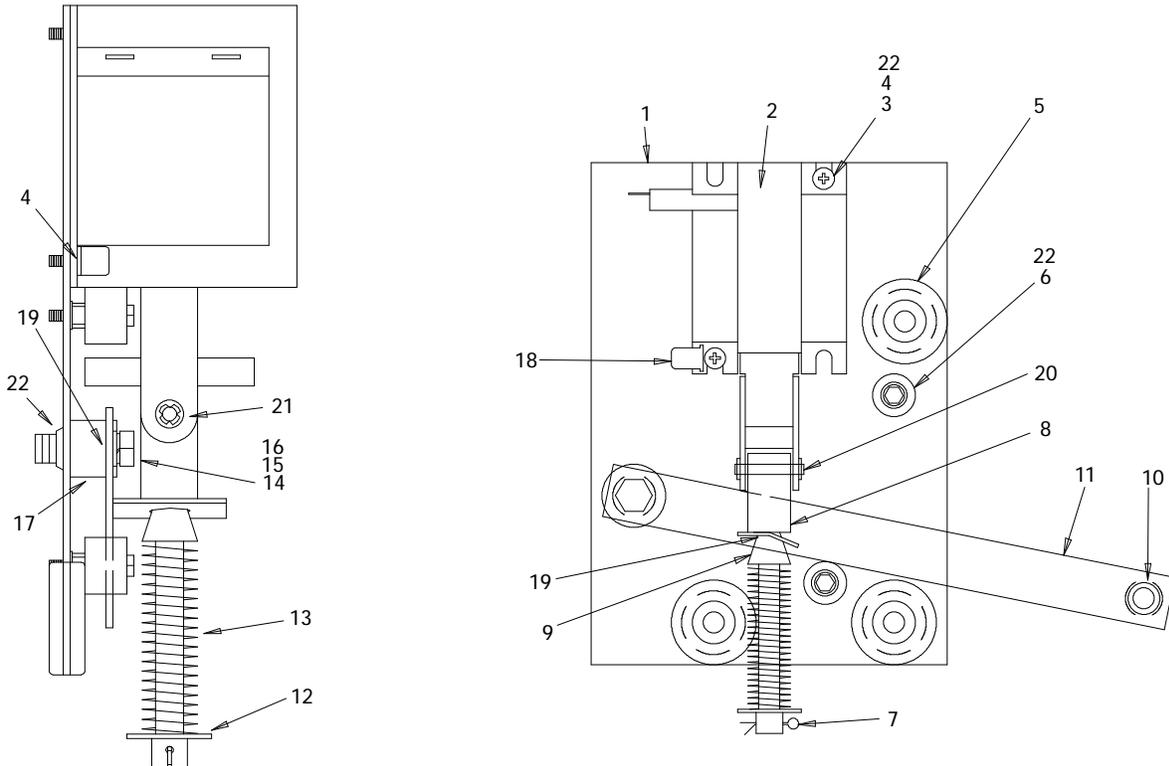
**DANGER!** ELECTRIC SHOCK HAZARD. DISCONNECT POWER BEFORE SERVICING UNIT.



**SOLENOID ADJUSTMENT**

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

**FIGURE 3. WIRING DIAGRAM D150 DISPENSER**

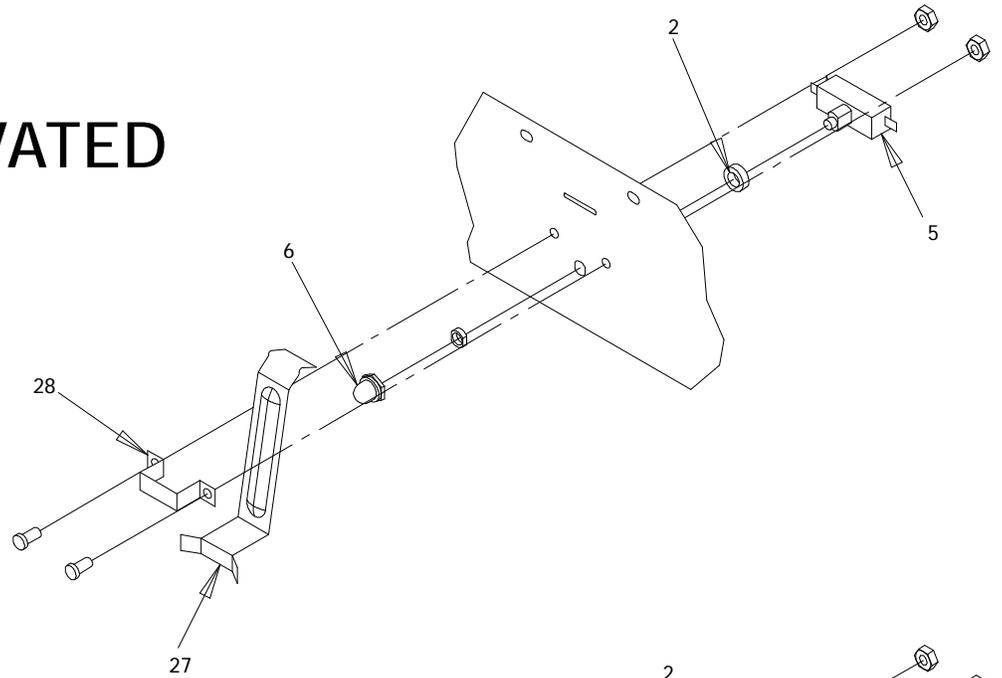


**FIGURE 4. SOLENOID ASSEMBLY - EXPLODED VIEW AND PARTS LIST**

Index No.	Part No.	Qty.	Name
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
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	51088	--	Loctite
--*	70438	--	Rebuilding Kit

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

# CUP ACTIVATED



# PUSH LEVER

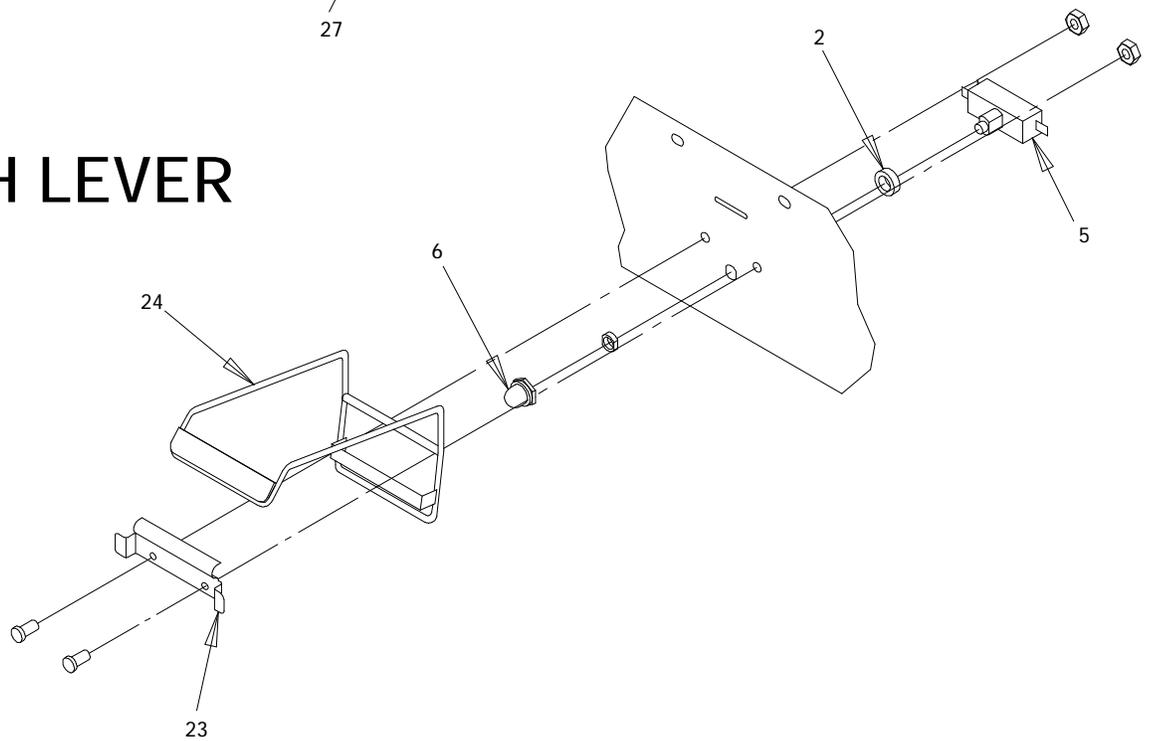
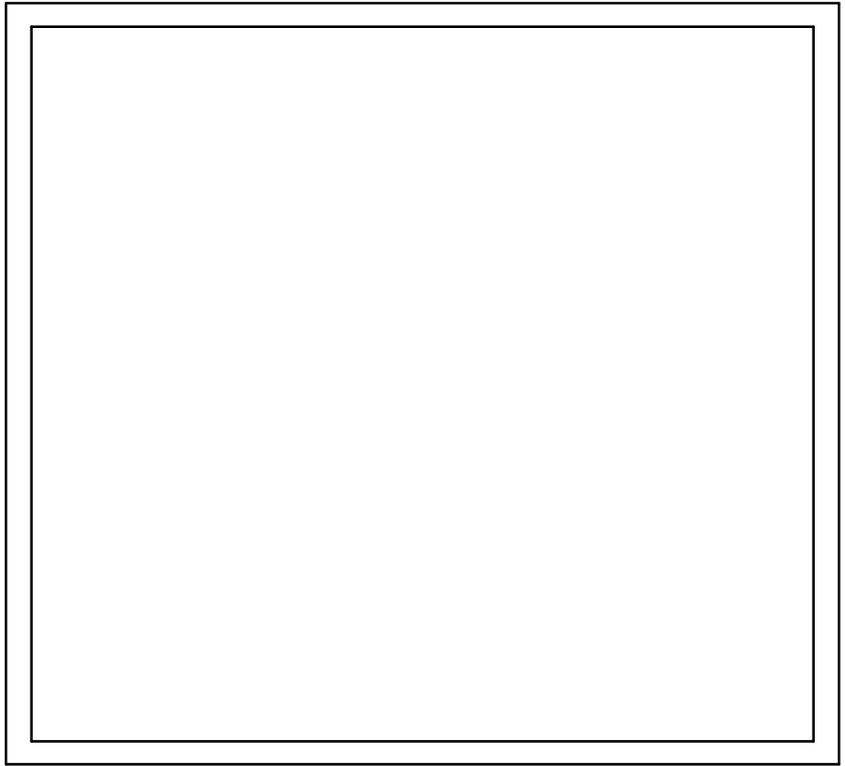


FIGURE 5. DISPENSING LEVERS AND SWITCHES

# MODEL D100/D150 PARTS LIST

Item No.	Part No.	Name
1	21491	Gate Slide
2	23062	Foam Shield
3	21515	Depressor Lever
4	29026	Agitator D100
	26591	Agitator D150
5	30895	Depressor Switch
6	31007	Switch Boot
7	32498	Agitator Motor
8	51859	Motor Shaft Seal
9	51860	Motor Gasket
10	51757	Lid
11	50793	Sink
12	53015	Ice Chute Back Section
	53016	Ice Chute Cover
13	51891	Gate Gasket
14	70441	Sink Grill
15	70419	Leg
16	91498	Wiring Diagram
17	91723	"Press for Ice" Label
18	30774	Capacitor, Agitator Motor
19	31093	Gate Solenoid Assembly
20	31551	Gate Solenoid Kit
21	70438	Rebuilding Kit (Gate Solenoid)
22	31406	Fuse, Gate Solenoid
23	22644	Depressor Retainer
24	27126	Depressor Push Lever
25	27107	Depressor Retainer ( for 27126)
26	70847	Spacer Switch
27	215150	Depressor, Lever (Cup Activated)
28	22644	Depressor Retainer (For 21515)



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