CAPPUCCINO DISPENSERS



GB models:

- · LOW PROFILE [LP]
- · BUDGET [K]
- · SPACE SAVER
- · SKI
- · SUPER SKI

OPERATION MANUAL

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Cecilware Corporation 43-05 20th Avenue, Long Island City, NY 11105

Tel: 718-932-1414 1-800-935-2211 Fax: 718-932-7860 E-Mail: customer.service@cecilware.com



OPERATION MANUAL NA33A-F JAN-2009

Mechanical Specifications											
MODEL:		Width In	Depth In	Height In	Hoppers Qty	Hoppers Lb.	Tank US Gal.	Burst Capacity	Lit Display Area (W X H) Sq. In.	Shipping Weight Lb.	
GB1M-LD	SPACE SAVER	8 1⁄2	22	31 ½	1	8 SQ	2	58	(7 x 13) 91	65	
GB2M-5.5-LD	SPACE SAVER	8 1⁄2	22	34	2	5 ½	2	58	(7 x 13) 91	86	
GB3M-5.5-LD		11	22	34	3	4	2.75	85	(9½ x 13) 123	100	
GB3M-10-LD		11 ½	22	34	2 1	5½ 10 P	2.75	112	(12 ³ / ₈ x 13) 164	110	
GB4M-5.5-LD		14 ¹ /8	22	34	4	5½	2.75	112	(12 ³ / ₈ x 13) 164	120	
GB5M-5.5-LD		17	22	34	5	5 ½	6	140	(12 ³ / ₈ x 13) 164	140	
GB5M-10-LD		17	22	34	4 1	5½ 10 P	6	140	(12 ³ / ₈ x 13) 164	140	
2K-GB-LD	<u>BUDGET</u>	8 ½	20	31 ½	2	4	2	58	(6½ x 13½) 88	70	
3K-GB-LD		10	20	31 ½	3	4	2.75	58	(8 ¹ /8x13½) 110	81	
4K-GB-LD		15 5/8	20	31 ½	4	4	3.75	58	(12½x12) 150	120	
5K-GB-LD		15 5/8	20	31 ½	5	4	3.75	58	(12½x12) 150	125	
5K-10-GB-LD			20	34	1 4	10 5 ½	6	98	(12½x12) 150	130	
GB2-LP-LD	LOW PROFILE	8 1⁄2	20	27 ½	2	4	2	58	(6½ x 13½) 88	70	
GB3-LP-LD		11	20	27 ½	3	4	2.75	58	(6½ x 13½) 88	75	
GB4-LP-LD		14 ¹ /8	20	27 ½	4	4	2.75	58	(9 ³ /4 x 12) 117	100	
GB1SKI -LD	<u>SKI</u>	8 1⁄2	23 1/4	38	1	14 SQ	2.75	93	(7 x 13) 91	85	
GB2-SKI -LD	<u>SKI</u>	14 ¹ /8	23 ¹ /4	38	2	14 SQ	8.5	131	(12 ³ / ₈ x 13) 164	140	
GB2 Super SKI	SUPER SKI	14 ¹ /8	24 ¹ /4	40 ½	2	14 SQ	8.5	150	(12 ³ / ₈ x 13) 164	155	
GB2 Super SKI-BL-LD	SUPER SKI	14 ¹ /8	24 ¹ /4	40 ½	2	14 SQ	8.5	150	(12 ³ / ₈ x 13) 164	155	

All models are with or without -LD (Lit Display).

Height: Add an additional 1" when installing with 1" feet or 4" when installing with 4"legs. **Plumbing:** '4" water line required.

** Clearance: Add 2" for line cord and valve fitting in the back of unit

* Burst Capacity: Max. # of drinks dispensable with available hot water - based on 6 oz. cups.

Electrical Specifications									
Model No.	Volts	Phase	Hz	Watts	Number of Heaters	Amps	Receptacle Nema No.	Circuit Breaker	
ALL MODELS	120V	1	60	1.8KW	1	15	5-15R	15A	
ALL MODELS	120/240V	1	60	3.0KW	1	15	L14-20R**	20A	
ALL EXPORT MODELS	220V	1	60	3.0KW	1	15	††	20A	
GB3\4\5\SKI\Super SKI	120/240V	1	60	6.0KW	2	25	L14-30R**	30A	
		1		9.0KW	_	39		50A	
GB Super SKI	230V	1	60	18.0KW	3	78	HARDWIRE	100A	
		3		18.0KW		45		60A	

120V, 1.8 KW, 15A, Nema 5-15R standard on all models; 3.0 KW and 6.0 KW, 120/240V units available.

** 120/240V, 3 pole, 4 wire grounding type Twist-Plug Receptacle.

For 240V units, use L6-20R or L6-30R, 2 pole, 3 wire Twist-Plug Receptacle.

†† 220V Export Receptacle to be specified where order is placed.

For Wiring, refer to Wiring Diagrams in back of manual. See Electrical Data Label attached to the back of the unit for proper voltages, breaker sizes and electrical outlet requirements for each model number listed.

INSTALLATION INSTRUCTIONS

Water Inlet Connection:

This equipment is to be installed to comply with the applicable Federal, State, or local plumbing codes having jurisdiction. In addition:

- 1. A quick disconnect water connection or enough extra coiled tubing (at least 2x the depth of the unit) so that the machine can be moved for cleaning underneath.
- 2. An approved back flow prevention device, such as a double check valve to be installed between the machine and the water supply.

The GB beverage dispenser is equipped with a ¹/₄" Flare Water Inlet Fitting which is located on the left side in the back of the base (when looking at the machine from the front).

HIGHLY RECOMMENDED:

A WATER SHUT-OFF VALVE and A WATER FILTER, preferably a combination Charcoal/Phosphate Filter, to remove odors and inhibit lime and scale build up in the machine.

Note: In areas with extremely hard water, a water softener must be installed in order to prevent a malfunctioning of the equipment and in order not to void the warranty.

After the machine has been unpacked and placed on a counter, pull out the stainless steel drip tray. It should contain the following: A Set of 4 Adjustable Leveling Legs & Water Inlet Fitting.

START-UP PROCEDURE

Caution: Make sure that the Heater Switch, located behind right hopper with door opened, is in the OFF position.

- 1. Connect the ¼" dia. copper waterline to the ¼" flare water inlet fitting of the valve.
- 2. Plug the power cord into a proper receptacle.
- 3. Activate the **Power Switch** (Toggle Up). The door display panel, the red power indicator light and the green dispense buttons will light up and the tank will start filling. Allow approximately 4-5 minutes for the tank to fill.
- 4. Activate the Heater Switch. Allow approximately 10-30 minutes for the water to reach a temperature of 195°F. The heat up time will depend on the water inlet temperature, the input voltage and the wattage of the elements in the machine.
- 5. Place a **6 oz**. or larger cup under the left dispense nozzle, press and hold the left dispense switch for 6 seconds. The machine will dispense water at the rate of 1 oz. per second. Repeat it several times to check for consistent output. Repeat same for the other dispense switches. This procedure checks that the dispense valves are not air-locked.
- 6. While the tank is heating up, remove the hoppers, load them with products and reposition them back in the machine. When the green ready light comes on, the tank has reached its brew temperature and the machine is ready to dispense the first cup of Cappuccino.

To Dispense a Cup of Cappuccino or Coffee or Soup: Place a 8 oz. or larger cup under selected drink dispense nozzle.

For Manual units: Push and hold brew button until cup is 2/3 full, then release button.

For Automatic units: Press and Release button. Cup will fill up automatically to it's preset amount.

See Drink Strength Adjustments if different levels of drink strength are desired or Programming Dispense Volume if different cup sizes are used.

UNPACKING INSTRUCTIONS

Carefully unpack the GB Machine and inspect immediately for shipping damage. Your GB Machine was shipped in a carton designed to give it maximum protection in normal handling. It was thoroughly inspected before leaving the factory. In case of damage, contact the shipper, not Cecilware.

DESCRIPTION AND LOCATION OF COMPONENTS

Note: Refer to Illustration A for description and location of COMPONENTS and CONTROLS.

 HOPPERS. Depress the door latch on the left side of the door and pull door open to access the hoppers. The hoppers hold up to 14 lbs. of Cappuccino product and up to 1.5 lbs. of freeze dried coffee product, depending on model number (see spec. sheet).

To remove the hoppers simply swing the top compartment door open and lift out the hoppers. To reposition the hoppers in the compartment, slide the hopper base back between the rails until the ¼" pin at the bottom of the hopper base falls into the ¼" positioning hole of the compartment base cover.

- RINSE SWITCH. With the door open, the rinse switch is located on the left side the first Whipper chamber. In the RINSE position it disengages the hopper motors and allows only water to be dispensed. It is used for flushing out the Whipper Chambers and to adjust the water dispense valves for proper flow rates.
- 3. HEATER SWITCH. This switch is located inside the cabinet behind the right hopper, open door and remove right hopper to access it. Its primary function is to shut off the heating element during the initial priming, start up operation of the machine, or whenever the tank is being drained for service.

Note: On 120V, 1.8 KW and 120/240V, <u>3 KW</u> machines, the Power Switch and Heater Switch must be ON in order for the elements to operate.

4. POWER SWITCH. This switch is located on the left side of the splash panel below the door. On 120V, 1.8 KW and 120/240 or 240V, 3 KW single element machines the power switch controls all power to the machine including the heater elements. Note: On 120/240V, <u>6 KW</u> machines , the Power and Heater Switches are independent of each other. Both switches must be OFF in order for the machine to be completely shut down.

5. WATER LEVEL CONTROLS:

Under normal conditions and operation, the water level in the tank should not drop more than ½" from the probe. If it does, the tank is not refilling fast enough. Check the water line and water filter, they may need cleaning or replacing.

1. Solid state water level control board	Part# L690A
2. Water inlet valve	Part# L462A
3. Dual Water level probe	Part# K695Q

DESCRIPTION AND LOCATION OF COMPONENTS

FRONT VIEW WITH OPEN DOOR



FAN/BLOWER

DRIP TRAY

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CORD

WATER INLET VALVE

888

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HEATER

SPOUT

RINSE SWITCH

DRIP TRAY

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ILL. A

ADJUSTMENTS



ILL. B

THERMOSTAT ADJUSTMENTS



Locate Thermostat: Remove the right side panel. Thermostat is mounted on side of tank.

The GB beverage dispensers are factory set to deliver hot brewing water at **195°F** with the thermostat knob turned to full ON position. If adjustments should be necessary to increase or decrease the water TEMPERATURE, proceed as follows: Note: Set the Rinse Switch to ON. This will disengage the Hopper Motors when dispensing water for Temperature measurements.

1. To **INCREASE** the water temperature - With the **Thermostat Knob to its maximum clockwise position**, remove the knob and locate the slotted adjustment screw inside the hollow thermostat shaft. Using a narrow-bladed screwdriver, engage slotted adjustment screw and turn it ¹/₄ turn slowly counter-clockwise. Allow a few minutes for the temperature to reach set level. The Heater Light will go ON, indicating the heating element is activated, wait for it to go OFF, indicating that the water has reached new set temperature. Take a temperature reading and repeat if necessary.

2. To **DECREASE** the water temperature - simply turn the Thermostat Knob one notch counter-clockwise to the next lower dial setting.

INSTRUCTIONS FOR ADJUSTING SPEED CONTROL L556A WITH DC MOTOR CD151



GB SKI SUPER - VOLUME AND PRODUCT STRENGTH ADJUSTMENTS

EDDRINK STRENGTH ADJUSTMENTS - by adjusting the Auger Speed.

I. UNITS WITH FIXED SPEED AUGER MOTORS-AC [CD150] - Fixed Auger Speed [95 RPM] and dispenses powder at a constant fixed rate.

- Drink Strength adjustments can be made by adjusting the water flow rate on the Water Dispense Valves . [See ILL. C]
- 1. Remove Hoppers to access the Dispense Valve, located behind the hoppers.
- 2. Locate Flow Adjustment Screw on Dispense Valve. (See illustration C)
- 3. Rotate adjustment screw Counterclockwise to INCREASE Flow Rate, Clockwise to DECREASE Flow Rate.

(Note: the water flow rate should not exceed 1 to 1.3 oz./sec.)

Do not turn Adjustment Key more than 1/4 turn at a time without checking drink strength (ratio of water to powder).

II. UNITS WITH VARIABLE SPEED AUGER MOTORS-DC [CD151] - Variable Auger Speed [10 to 130 RPM] Drink or Product Strength adjustments can be made by adjusting the Auger Motor RPM [knob on inside door panel], which controls the amount of product being dispensed [gram throw]. The gram throw is factory preset at 7. Because the consistency of each product varies, the customer can set the desired gram throw for each hopper.

The water flow rate on the Dispense Valves should remain fixed.

Note: the water flow rate should not exceed 1-1.3 oz./sec to avoid spillage from dispense chamber. [See ILL. C]

DRINK SIZE ADJUSTMENTS

- a. Manual Machines : Hold down the Dispense Button until desired amount is dispensed.
- b. Automatic Machines with Timer L493A on Inside Door Panel NOT Programmable] & speed control board L556A: To increase the volume, turn the dial to the next increment. [0-1 is equivalent to 2 sec.]
- c. Automatic Machines with Programmable "Teach me"Timers [L576A or L582A]: These units do not have a cup size adjustment knob inside the door, since the timer is programmable from the dispense button.

PROGRAMMING FOR AUTOMATIC DISPENSE WITH BUZZER

- 1. Turn Power Switch ON (toggle switch inside door).
- 2. PRESS and HOLD [red] STOP Button with one hand.
- 3. PRESS and HOLD [green] DISPENSE Button with other hand.
- 4. RELEASE [red] STOP Button ONLY.
- 5. Continue to HOLD [green] DISPENSE Button until buzzer sounds for (4 SEC. DELAY), then RELEASE.
- 6. PRESS and RELEASE [green] DISPENSE Button. Product begins dispensing. When it reaches the "DESIRED VOLUME",
- 7. PRESS and RELEASE [green] DISPENSE Button to SET "DESIRED VOLUME". DISPENSE Button can be "jogged" to top off.
- 8. PRESS and RELEASE [red] STOP button to LOCK IN "DESIRED VOLUME". Repeat steps 1 to 8 for each Dispense Button.

PROGRAMMING INSTRUCTIONS FOR MANUAL DISPENSE WITH BUZZER

- 1. PRESS AND HOLD STOP [red] BUTTON WITH ONE HAND.
- 2. PRESS AND HOLD DISPENSE [green] BUTTON WITH OTHER HAND.
- 3. RELEASE STOP [red] BUTTON.
- 4. CONTINUE TO HOLD [green] BUTTON AFTER BUZZER SOUNDS (4 SEC. DELAY).
- 5. RELEASE DISPENSE [green] BUTTON.
- 6. PRESS AND RELEASE STOP [red] BUTTON.
- 7. YOU ARE READY FOR MANUAL DISPENSE.

The Total Time The Water Is Running Is Accumulated And Saved Into Memory. For Normal Operation, Press and Release Dispense Button.

The Timers Have Been Factory Preset for 6 oz. Cups for Coffee; For 8 oz. Cups for Soup and Cappuccino.

To Change To Larger Or Smaller Cup Sizes [Volumes] Repeat Steps 1 To 8 Above.

TO CHECK VOLUME AND GRAM THROW DISPENSED (ratio):

1. Remove the product guide from the hopper and position a receptacle under the hopper nozzle to catch the gram throw of product. Also place a measuring cup under extension tube to catch the water dispensed.

2. Push the dispense button and check the amount of product dispensed, amount of water dispensed, and time [use stop watch] to dispense that water.

3. The amount of of water dispensed in the measuring cup divided by the amount of time to dispense that water is the Water Flow Rate from Dispense Valve.

FOR CAPPUCCINO: The machine is factory adjusted to dispense 4-4.5 gr./sec. per OZ. Cup. [32 grams Product per 8 oz. cup] The recommended throw is 28-32 grams per 8 oz. cup for Cappuccino, with 80% fill.

FOR COFFEE: The machine is factory adjusted to dispense 0.3 gr./sec per OZ. Cup. [1.5 grams of coffee product per 5 oz. of liquid (in a 6 oz. cup). The recommended throw is 1.5 to 1.8 grams per 6 oz. cup of Coffee, with 80% fill.

For customer specified/special settings see inserts I, II, III, etc.



GRAM THROW PRODUCT STRENGTH ADJUSTMENT





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COMPONENT TESTS

A) <u>Thermostat Adjustments:</u>

The Thermostat is factory set for proper dispense temperature of 190° F with the control shaft set to the maximum clockwise position. If field adjustments are needed proceed as follows:

To DECREASE temperature, turn the control shaft slightly in the COUNTERCLOCKWISE direction .

For qualified technicians ONLY:

Remove the knob and locate the <u>Slotted Adjustment Screw</u> inside the hollow thermostat shaft. Using a narrow-bladed screwdriver, engage slotted adjustment screw and turn it ¼ turn very slowly counterclockwise (CCW). Allow a few minutes for the temperature to reach set level. The Heater Light will go ON, indicating the heating element is activated, wait for it to go OFF, indicating that the water has reached NEW set temperature. Take a temperature reading and repeat if necessary.

B) <u>Water Inlet Valve Test</u>

Turn power OFF. If the water level rises inside a partially filled tank, the Water Inlet Valve is leaking. Disconnect wires from the Water Inlet Valve coil and connect a 2 wire line cord to the terminals. Plug it into a 115V outlet. If water flows in and stops when you pull it out, the Valve is working fine. Repeat this test a few times. The problem may be in the Probe or Water Level Control Board. If the water does not flow in when the cord is plugged into an electrical outlet, the Solenoid coil may be damaged, opened or the valve may have an obstruction preventing the water from flowing in. Clean or replace it.

C) <u>Dual Probe Test</u>

If lack of water persists, check the probe as follows: Turn on the power and water supply. Check inside the tank to make sure the water is below the Probe. Pull the BLUE wire and terminal OFF the Probe rod. If water still does not flow after the wire is disconnected from the Probe, the problem may be in the Solid State Dual Level Control Board. If water starts flowing into the tank, the Probe may be grounded, due to excessive liming. Check with Ohm meter. Clean or replace probe.

D) Dual Probe Liquid Level Controller Test

Check the Controller as follows:

1. Make sure there is power input to the Controller at the terminals AC1 & AC2

Your voltmeter should read 115 Volts. It should read the same at terminals AC1 & FILL when the water level is low. This is the output power to actuate the coil of the Solenoid Valve to open it. The lack of voltage at terminals AC1 & L-LEVEL or H-LEVEL indicates that the Controller is not working properly.

2. Make sure all wire connections are tight, including ground.

3. If after this, the Controller is still failing to open the Water Inlet Valve, replace it.



TEMPERATURE



NEW	DUAL PROBE LIQUID LEVEL CONTROLLER
-FILL	
— AC-1	
AC-2	•
L–LE`	√EL
	VEL
	ION-GND
<u> EXIIIIII</u>	UMMMAN (SA)



THERMOSTAT BULB IN TANK

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WATER INLET VALVE

HOSE NUT ASSY



Model L690A (Rev. B) Dual Probe Liquid Level Controller

Overview - The L690A is a Dual Probe Liquid Level Controller designed to maintain a specific level of water in the tank. This device utilizes two level probes for increased reliability. Independent maximum fill timers are incorporated in the controller for overflow protection.

Operation - When a fill problem occurs, the Dual Probe Liquid Level Controller turns OFF power to the fill valves and remains OFF until the power input is reset (i.e. turn power switch off then back on).

Low Level Probe - When the Low Level Probe detects the absence of water for two seconds, the Controller immediately opens the Fill Valve. When the Low Level Probe detects the presence of water the Controller immediately closes the Fill Valve.

High Level Probe - When the High Level Probe detects the absence of water the Controller immediately turns ON and the Low Level Probe is allowed to control the Fill Valve. When the High Level Probe detects the presence of water for 1.5 seconds the Controller turns OFF power, which closes the Fill Valve.

Maximum Fill Timers – On the first fill, the unit will only allow 15 minutes of continuous filling if neither of the Level Probes has detected the presence of water since power has been applied (i.e. first fill). Once the presence of water has been detected the unit will only allow 10 minutes of continuous filling to prevent flooding. If the duration of continuous filling exceeds the allotted time then a Fatal Error is generated, which closes the inlet valve.

Status LED – Located on the Controller, this indicator is turned ON for one second after power is applied to indicate a functioning unit. The indicator will blink when the High Level Probe detects water to signify a warning. During a Fatal Error the indicator will be ON continuously.

WARNING: To re components of t	educ he u	e the risk of electrical shock unplug the dispe- nit Before any attempt to replace a compone	enser power cord before repairing or replacing any internal ent be sure to check all electrical connections for proper contact.			
PROBLEM		PROBABLE CAUSE	REMEDY			
1	Α	Dispensing unit unplugged	Reconnect dispensing unit			
Light Display	В	No power from Terminal Block	Check the Terminal Block for loose wire			
No power.	С	Defective Bulb	Replace Bulb.			
	D	Defective Ballast.	Replace Ballast			
	Ε	Loose Bulb in socket.	Make sure bulb is seated properly in socket.			
2	Α	Water supply OFF.	Turn water ON.			
No water when	В	Clogged inlet screen (Water Inlet Valve).	Disconnect water line and clean inlet screen.			
ON.	С	Inoperative Water Inlet Valve.	Check connection, if needed replace Valve.			
	D	Loose electrical connection.	Check all electrical connections.			
3	Α	No product in Hopper.	Add product.			
No product when	В	Auger not working.	Engage Hopper/Nut to Motor Gear (See ill. B).			
is bullon	С	Damaged, loose, or missing Agitator Gear.	Replace Agitator Gear (See ill. B).			
pressed	D	Inoperative Auger Motor or Relay.	Check connections of Motor, Relay and/or Switch, if needed replace components.			
	Ε	Hopper outlet clogged	Clean Hopper and check Cartridge Heater.			
	F	Faulty Coupling.	Replace damaged Coupling components.			
4 Water does not	А	Leaking Water Inlet Valve.	Clean/check fittings of Water Inlet Valve. Replace Water Inlet Valve if needed. See "Water Inlet Valve Test"			
shut off.	В	Inoperative Dispense Switch	Check Switch connections. Replace Dispense Switch if needed.			
dispensing.	С	Inoperative Rinse Switch	Check Rinse Switch connections. Replace Rinse Switch if inoperative.			
	D	Clogged/stuck Water Dispense Valve	Clean or unclog Water Dispense Valve. Replace Dispense Valve if inoperative.			
5 No water is	A	Water Inlet Valve malfunction.	Check Solenoid. Replace if necessary. See "Water Inlet Valve Test".			
going into tank at	В	Water Level Sensor/ Probe malfunction.	Check Probe. Replace if necessary. See "Probe Test"			
all.	С	Solid State Water Level Control Board	Check Water Level Controls. Replace if necessary. See "Water Level Control Test".			
6	А	Water Level Probe malfunction.	Check Probe. Replace if necessary. See "Probe Test".			
Water will not stop flowing into	В	Solenoid (Water Inlet Valve) malfunction.	Check Solenoid. Replace if necessary. See "Water Inlet Valve Test".			
Waler lank.	С	Solid State Water Level Control malfunction	Check The Water Level Controls. Replace if necessary. See "Solid State Water Level Control Test".			
7	А	Heater Switch is OFF.	Turn Heater Switch ON.			
Water is not	В	Thermostat is OFF.	Turn Thermostat ON. (See ill. C) Turn Knob Clockwise.			
the water tank.	С	Loose connection on Thermostat.	Make sure all wires and terminals on Thermostat are tight.			
	D	Hi-Limit Temperature Switch is defective	Replace the Hi-limit.			
	Ε	Heater is burned out or defective.	Replace the Heater.			

SANITIZING:

All sanitizing agents in the food zone must comply with 21 CFR 178.1010. All food dispensing units should be sanitized periodically. All parts to be sanitized must be cleaned first.

To prepare a sanitizing solution:

ADD 2 TSP. OF LIQUID CLOROX BLEACH (5.25% CONCENTRATION) TO 1 GALLON OF WATER AT ROOM TEMPERATURE (70°-90°F).

Note: Always start with a unopened bottle of Clorox Bleach since the solution from an opened bottle has a short life span.

• Soak all parts for a minimum of 3 min. in the sanitizing solution.

- Let all sanitized parts drain and dry naturally. DO NOT WIPE THEM DRY.
- Before using the sanitized unit (or parts) with food stuffs, rinse all parts thoroughly with water.

Water pipe connecting and fixtures directly connected to a potable water supply shall be sized, installed, and maintained in accordance with Federal, Sate, and Local codes (section 7).

Cleaning

- 1. Turn the power switch to OFF.
- 2. Remove the drip tray with grill and empty the contents.
- 3. Wash and let dry the tray and grill (use a mild dishwasher detergent).
- 4. Wash and let dry the dispense area.
- 5. Turn the power switch to ON.

Cleaning the Hoppers (See Hopper Illustration)

- 1. Open the cabinet door and raise the top cabinet lid.
- 2. Take the hopper out of the cabinet.
- 3. Pull off the elbow chute and remove the hopper cover.
- 4. Unscrew the auger gear CW while holding steady the auger inside the hopper. Take out the auger, agitator wheel, and spring.
- 5. Rinse each item thoroughly. Wash & scrub Hopper and Agitator Wheel recesses with Bristle Brush.
- 6. Let dry all items and reassemble.

Filling the Hoppers

- 1. Open the cabinet door, raise the top cabinet lid.
- 2. Fill each hopper with the correct product. Note: Hoppers can also be removed for filling.
- 3. Reposition hoppers in the hopper compartment, making sure the hoppers are properly seated.

Flushing the Whipper Chamber

- 1. Open the cabinet door and turn the RINSE switch to ON.
- 2. Place a container under each dispense nozzle and push the dispense switches.
- Note: On manual dispense machines, push and hold the dispense buttons for 10 seconds.
- 3. Open the cabinet door and turn the Rinse switch back to OFF.
- 4. Wash and let dry the splash panel.
- 5. Remove the drip tray, wash and let dry thoroughly.

Removing and Cleaning the Cappuccino Whipper Chambers (See Hopper Illustration)

- 1. Remove the dispense cap by pulling it forward and at the same time twisting it clockwise.
- 2. Grab and pull the mixing bowl out of the mixing bowl socket.
- 3. Grab and twist the whipping chamber clockwise and pull it off the mounting plate.
- 4. Pull the Whipper Blade off the motor shaft. Notice the flat keyway on the shaft and the matching keyway inside the Whipper blade shaft. It is important that these two keyways are lined up when re-assembling the components.
- 5. Twist the mounting plate clockwise and pull it off the motor shaft.
- 6. Slip off the o-ring from the Whipper Chamber mounting plate and clean o-ring and o-ring seat.

Removing and Cleaning the Coffee/Tea Mixing Chambers (See Hopper Illustration)

- 1. Remove the dispense cap.
- 2. Pull the mixing bowl out of the mixing bowl socket.
- 3. Take out the extension tubes.
- 4. Rinse them thoroughly

RECOMMENDED PREVENTIVE MAINTENANCE ILL. F

1) CHECK ALL DISPENSE VALVES FOR LIME BUILD-UP.

Drain The Water Tank To Just Below The Level Of The Dispense Valves. Remove The Valves And Clean. (You Can Take These Valves Apart By Hand As Shown).

Replace The Assembly As Needed (L467A).

Replace The Valve Into The Tank And Refill tank.



2) CHECK ALL CHAMBER MOUNTS FOR SIGNS OF WEAR

- A. Product Running Down The Front Of The Unit.
- B. Product Built Up On The Back Of Chamber Mount.
 Remove Chamber Mount.
 Clean And Re-Lubricate Motor Shaft
 Using Food Grade Lubricant Only
 Replace With New Chamber Mount.

3) CLEAN OUT VENT MOTOR, TROUGH AND TUBING.

Lift up black tabs, remove Trough Drawer, Clean, and replace Trough Drawer. Remove Hose Assembly From The Motor. Clean Out And Replace.

LIT DISPLAY AND STARTER REPLACEMENT ILL. E

To replace the picture inside metal door:

. everages position. PRODUCT LABEL CE76A

Lift up the two end tabs on top of door with a pointed object or flat head screwdriver. Pull the entire picture frame out. Open up the two clear panels and replace picture. Tuck clear plastic panel inside bracket at top. Be sure to tuck clear panel under bracket before sliding frame ass'y inside door. the longer metal tab side goes in the front.

To replace the fluorescent bulb:

Remove the upper inside door panel. Turn the lamp and pull it out of the lamp holder, then place the new lamp into the lamp holder and turn it until it snaps into

To replace the starter:

Remove the upper inside door panel, turn the starter slightly counter-clockwise and take it out of the starter base. To install the new starter, snap the starter into the starter base and turn it slightly clockwise into position.



To replace the picture inside molded door:

Remove molded door front by removing side screws. slide out clear plastic panel with picture. Replace picture and slide the plastic panel w/ new picture into the door frome. then put front molded door back on with screws on the sides.

To replace the fluorescent bulb:

Remove the upper inside door panel. Uscrew the lamp and pull it out of the lamp holder, then place the new lamp into the lamp holder and screw it into position.

To replace Socket:

Remove the upper inside door panel, push the socket firmly to one side untile PRODUCT the clip clears the hole in the bracket. LABEL and lift up. To install the new socket, put one side of the lip into the hole and push the socket to one side until the second clip snaps into the second hole. BUI B TWIN TUBE CE82A 0 0 0-RING SILICONE CB04A LAMP HOLDER B216A -TIE WRAP M981A D MOLDED DOOR PANEL 2KGB - M450A 3KGB - M456A 4KGB/ 5KGB - M668A **DISPENSE SWITCH - L455A GB K WITH MOLDED DOORS**





TANK ASSEMBLY CONFIGURATION



М	P/N	QT	Y	DESCRIPTION
		GB M	GB Ski	
			Super	
	P465A	3	3	SCREW, S.S., 1/4 - 20 x 5/8
	K667Q	1	1	SHIM ASSEMBLY, HEAT SINK W/HI-LIMIT BRACKET
	G267A	1	-	HEATER, 120V 1700W
	G266A	1	-	HEATER, 240 V, 3000W
	G281A	_	3	HEATER, 230 V, 6000W
	M773A	1	1	O-RING, HEATER GASKET
	L656A	1	1	HI-LIMIT, #500, 200°F CUTOUT
	K661A	1	1	HEATSINK, 1/8" ALU. F/ HI-LIMIT
	K525A	3	3	ELBOW TUBE
	K695Q	1	1	DUAL LEVEL CONTROL SENSOR
	M533A	2	2	RUBBER GASKET, FOR SCREW (ITEM 1 P446A)
		1	1	TANK TOP (SEE METAL PARTS IDENT. LIST)
	M498A	1	1	SILICONE BUTT SPLICED GASKET
	M607A		1	
	L467A	3	1	DISPENSE VALVE (DUMP)
	L561A		2	
	M461A	6	6	DIRECT MOUNTING SEAL (.466 ID)
	M483A	1	1	DRAIN HOSE, SILICONE
	<u>M</u> 391A	1	1	DRAIN PLUG
	M183A	1	-	TANK INSULATION MATERIAL
	M630A		1	
		1	1	TANK WELDMENT ASS'Y (SEE METAL PARTS IDENT. LIST)
	M008A	1	1	THERMOSTAT KNOB
	L532A	1	-	THERMOSTAT
	L002A	-	1	
	M626A	1	1	BREATHER HOSE [not shown]
		*		Quantity shown is for GB3, varies for each unit

DESCRIPTION AND LOCATION OF COMPONENTS [GB3M shown]



DESCRIPTION AND LOCATION OF COMPONENTS [GB2 SKI-SUPER shown]



ITEM	DESCRIPTION	GB-LP	GBK	GBM-5.5	GB-SKI	GB-Super-SKI w/ Teach-Me Timers
1	TANK ASS'Y/TANK TOP ASS'Y -SEE METAL PARTS LIST – NEXT PAGE	÷	÷	÷	÷	÷
2	SILICONE HOSE [BREATHER FITTING] [.375 I.D x 32"] M326A	M326A	M326A	M326A	M326A	M326A
3	SILICONE HOSE [DISPENSE VALVE] [.313 I.D x 14.5"] M324A	M324A	M324A	M324A	M324A	M324A
4	SILICONE HOSE [WATER INLET] [.375 I.D. x 13"] M326A	M326A	M326A	M326A	M326A	M326A
5	CHECK VALVE [PREVENTS BACKFLOW] [suggested – not supplied]	L463A	L463A	L463A	L463A	
6	HOSE NUT ASS'Y OR FITTING	K178A	K178A	K178A	K178A	A4256
7	WATER INLET VALVE 120 [120/240]	CD257	CD257	CD257	CD257	L022A
8	FUSE HOLDER (120/240V only)					C396A
9	BUSSMAN SC15 FUSE (GBs 120/240V only)					CE181
10	POWER CORD (C032S 120V, 15AMP; CG99A 240V, 30 AMP)	C032S	C032S	C032S	C032S	CG99A
11	TERMINAL BLOCK FOR 120V [WAS BTT/A] [FOR 240V USE BTT6A]	60105	60105	60105	60105	B15/A
12	CUNTACTOR GB3W & GB2-SKI SUPER	1.600.0	1 600 0	L000A	1.600.0	LADOA
13	STEDDOWN TDANSEODMED (240/1201/ only)	L090A	L090A	L090A	LU90A	CE187
14	SPEED CONTROL BOARD [Controls Auger Speed GRAM THROW]					1.5564
16	TRANSFORMER [use w/DC motor & Sneed Control CCA]					CF29A
17	RELAY, OMRON	B129A	B129A	B129A	B129A	B129A
10	FAN CD56A & ELBOW INSERT CD108 [USE FOR GB1, 2, 3 ONLY]	CD56A	CD56A	CD56A	CD56A	
18	FAN CD224 w/ RW31Q Fan Housing Ass'y [GB4,5, SKI]	CD224	CD224	CD224	CD224	CD224
19	DUCT HOSE [for Exaust Fan]	CD214	CD214	CD214	CD214	CG14A
20	1" FEEL OF 4" LEGS M1/2A (SEL OF 4)	M042A	M1/2A	M042A	M042A	M042A
21	RINSE SWITCH [GBT & GB5 - L069A; GB2 -L299A; GB3-L446A; GB4 L470A]	← 1.060A	← 1.060A	1.0604	← 1.060A	<u>←</u>
22	HEATER INDICATOR LIGHT (amber COO2A red C165A)	C002A	C002A	C002A	C002A	C165A
23	GRILL -SEE METAL PARTS LIST- see next nage	€002A	€	€002A	€002A	€163A ←
25	DRIP TRAY-SEE METAL PARTS LIST – see next page	, ←	÷	, ←	, ←	
26	WHIPPER MOTOR-short shaft	CD75A	CD75A	CD75A	CD75A	CD75A
27	SLINGER DISC	CD124	CD124	CD124	CD124	CD124
28	GROMMET CHAMBER MOUNTING	CD66A	CD66A	CD66A	CD66A	CD66A
29	CHAMBER MOUNT	CD65A	CD65A	CD65A	CD65A	CD65A
30	"O" RING # 125 (used w/ grommet CD66A)	M379A	M379A	M379A	M379A	M379A
31	WHIP BLADE	CD64A	CD64A	CD64A	CD64A	CD64A
32	EXTENSION TUBE PLASTIC	M467A	M467A	M467A	M467A	M467A
33	WHIP CHAMBER (Straight – CD63A) OR (Slanted – CD362)	CD63A	CD63A	CD63A	CD63A	CD362
34	MIXING CHAMBER [ALTERNATE CD62A W/ RECTANGULAR WING]	CD137	CD137	CD137	CD137	CD137
35	DISPENSE CAP OR SPLASH GUARD	CD61A	CD61A	CD61A	CD61A	CD61A
36	"O" RING (#110) (used w/socket CD67A)	M378A	M378A	M378A	M378A	M378A
37		CD67A	CD6/A	CD67A	CD6/A	CD6/A
38	DISPENSE BUTTON (GB L455A) / (GB SKI Super L584A) STOP SWITCH	L455A	L455A	L455A	L455A	L584A
39	AALLAST [10] INSIDE door parts see III. E]	CE221	D216A	CE221	CE221	CE221
40	BULB [for inside door parts see ill. E]	CE76A	CE82A	CE76A	CE76A	CE76A
41	O-RING [use with bulb CE82A only]		CB04A			
42	STARTER BASE [for inside door parts see ill. E]	B128A		B128A	B128A	B128A
43	STARTER, TYPE FS-5, 5-6-8 WATT [for inside door parts see ill. E]	L396A		L396A	L396A	L396A
44	DOOR LATCH	M367A	M367A	M367A	M367A	M367A
45	DOOR ASS'Y -SEE METAL PARTS LIST – see next page	((+	((
46	CLEANING INSTRUCTIONS	N978A	N978A	N978A	N978A	N978A
	PRUGRAMMING INSTRUCTIONS					NF58A
47	TIMER INOT PROGRAM. I uspense time/cup size-single [Tiple L382A] of TIMER INOT PROGRAM. [use w/oot, 1,577A & dial/cup size labels: NF32A/33A/34A					L570A
40	POTENTIOMETER - USED W/SPEED CONTROL BD [GRAM THROW DIAL]					L557A
48	LABEL, GRAM THROW DIAL- [GB2 NF30A; GB3 ND81A; GB4 NF31A]					NF30A
49	PRODUCT GUIDE	CD70A	CD70A	CD70A	CD70A	CD90A
50	CANISTER ASS'Y WITH COVER [w/NYLON auger] OR	CD68A	CD155	CD120	CD105	CD105
	AC AUGER MOTOR (90 RPM CD73A) (44 RPM CD87A) [CD175 same as CD150]	CD98A CD175	CD175	CD152 CD175	CD175	
51	DC AUGER MOTOR 90 RPM CD151 [W/Screw P443A] Portion Control - Optional					CD151
52	SIDE PANELS - SEE METAL PARTS LIST – see next page	(÷	÷	\	(

METAL PARTS LIST										
MODELS		ITEM 1	ITEM 23	ITEM 23	ITEM 24	ITEM 45	ITEM 53			
		TANK ASS'Y	TANK TOP ASS'Y	GRILL	DRIP TRAY	DOOR ASS'Y	SIDE PANELS			
GB1M	SPACE SAVER	SC35C	SC32C	RI23A	RI11A	RD03Q	RH91A			
GB2M-5.5		SC35C	SC32C	RI18A	RI11A	RH47Q	RG48A			
GB3M-5.5		SC36C	RI39C	RI19A	RI12A	RH48Q	RG48A			
GB4M-5.5		RL72C	RL69C	RI20A	RH05A	RH49Q	RG48A			
GB5M-5.5 [17" W]		SJ61C	SJ60C	SD76A	RT66A	RM02Q	RG48A			
GB5M-10 [18" W]		SJ61C	SJ60C	RR34A	RR33A	SD82Q	RG48A			
2K-GB [32" H]	BUDGET W/ Molded Door	SC35C	SC32C	RK44A	RM21A	RF73Q	RD46A			
3K-GB [32″ H]		SC35C	SC32C	RK47A	RM23A	RF79Q	RD46A			
4K-GB [32″ H]		RL72C	RL69C	RZ79A	RZ80A	RZ07Q	RD46A			
5K-GB [32″ H]		RL72C	RL69C	RZ79A	RZ80A	RZ07Q	RD46A			
GB2 –LP	LOW PROFILE	SC35C	SC32C	SC25A	SC26A	SC01Q	SC33A			
GB3 - LP		SC36C	RI39C	SC30A	SC31A	SB30Q	SC33A			
GB4 - LP		SC36C	RI39C	SC57A	SC58A	SC62Q	SC33A			
GB1-SKI-LD	SKI	RL54C	RL52C	RI23A	RI11A	RF37Q	RL51A			
GB2-SKI-LD	SKI	RN21C	RN16C	RL61A	RH05A	RF23Q	RL51A			
GB2-Super-SKI	Super SKI	RN21C	RN16C	RQ78A	RQ16A	RN61Q	RN33A			
GB2-Super-SKI-BL-LD		RN21C	RN16C	RQ78A	RQ16A	RN61Q	RN33A			

HOT/COLD WATER VALVE CONVERSION KIT

























