

# BLENDTEC

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### **Model BI Owners' Manual – Blender with Ice Dispenser**

For Models BI-501, BI-502, BI-503, BI-504, BI-505, BI-506

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## Section 1: Important Safeguards

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### **READ ALL INSTRUCTIONS CAREFULLY BEFORE USING YOUR BI MODEL UNIT.**

#### 1.1 Safety Certification

BI models 501, 503, 505, 506 are certified by ETL to comply with UL/ANSI standard 763-2000, 3<sup>rd</sup> Edition, November 30, 2000 and to comply with CSA standard C22.2 No. 195-M1987.

BI models 502 and 504 are 240VAC versions are certified by CE standards.

#### 1.2 Health Certification

All BI models are certified by NSF International to comply with Standard 8.

#### 1.3 Avoid Contact with Moving Parts

- Keep fingers, hair, hands and clothing away from all moving parts.
- Keep utensils away from drive socket, ice augers and blender blades during operation. Metal utensils will damage blades and augers.
- NEVER place a jar into the drive socket if the blender motor is operating.
- DO NOT rock the blender jar while it is operating. Keep the blender jar straight up until the operation is complete.
- These precautions will prevent personal injury and/or damage to the blender dispenser.

#### 1.4 Power Cord Precautions

- DO NOT operate with a damaged power cord or plug.
- If the power cord or plug are damaged they must be replaced by the manufacturer or its authorized service agent in order to prevent any hazard.
- DO NOT let the power cord hang over the edge of the work surface.
- NEVER use an extension cord with the unit.
- Unplug the unit when changing location, servicing or cleaning.

1.5 NEVER remove the covers or panels on the unit. The unit does not contain adjustable or customer serviceable parts. The manufacturer or their authorized agent must perform all interior service and adjustments. Removing covers or panels, or attempting to effect repairs, will void the warranty. Please call Blendtec Technical Support (1-800-748-5400) for guidance on your warranty and service options.

1.6 Turn the unit off when not in use.

1.7 NEVER operate the unit if it appears to be damaged.

If the unit malfunctions, call the manufacturer first. If it is dropped or damaged in any way, call Blendtec Technical Support for service to evaluate the extent of damage and the possibility of either repair or replacement.

- 1.8 NEVER operate in liquid. DO NOT allow the unit to sit in a pool of liquid or use the unit outdoors where it will be subject to precipitation. This will void the warranty.
- 1.9 NEVER put items such as metal, rocks, or other hard materials into the blender jar or the ice hopper. Metal utensils and other hard objects can damage the blender jar or ice hopper and will void the warranty.
- 1.10 NEVER operate the unit with attachments not sold or authorized by BLENDTEC. The use of unauthorized attachments may cause fire, electric shock, unit malfunction or injury. Damage incurred by the use of such attachments will not be covered by warranty.
- 1.11 ALWAYS operate the blender with the clear door closed.
- 1.12 ALWAYS secure the blender jar lid before starting the machine. Even with the blending chamber it is important to put a lid on the blender jar before initiating a blend cycle.
- 1.13 The blender jar blades are sharp - handle carefully.
- 1.14 Power Receptacle Requirements  
120VAC (all are 50-60Hz):  
Models BI-501 and BI-503: 1800Watts, 15Amps – require a 20AMP dedicated 120VAC receptacle (NEMA 5-15R).  
Models BI-505 and BI-506: 2400Watts, 20Amps – require a 20AMP dedicated 120VAC receptacle (NEMA 5-20R).  
Models BI-502 and BI-504: 1800 and 2400 Watts respectively, 7.5Amps – require cord set specific receptacles with 10Amp dedicated circuits.
- 1.15 DO NOT use any other electrical equipment on the same circuit as the unit or you risk overloading the circuit and either burning the fuse or possibly the electronics inside the unit. This will void the warranty. ALWAYS use a surge protector device.
- 1.16 NEVER use a water jet to clean the unit. Use of water jet to clean the unit can result in the malfunction or damage to the unit. This type of damage/malfunction will not be covered under warranty.

## **Save these Instructions for Future Reference**

### **IMPORTANT**

We shipped a clean machine but we do not have any control over shipping conditions or times. We strongly recommend that you sanitize the machine before you prepare any drinks (see section 5.4).

## Section 2: Introduction to the Blender with Ice Dispenser

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WELCOME TO AN EXCITING NEW WAY OF BLENDING.

# Introducing the Blendtec Blender with Ice Dispenser!

The Blendtec Blender with Ice Dispenser combines some of the best ideas in blending into one easy-to-operate machine. The result is a machine that provides:

- Fast delivery to large crowds.
- Controlled labor and finished product costs.
- Portability and easy set-up.
- Maximum revenue generated per square foot.
- Multiple drink combinations from one machine.

The Blender with Ice Dispenser is a microprocessor-controlled machine designed to quickly make precise blended drinks from concentrate or other liquid (including alcohol), ice, and water. It has three main sections, the blend station, the ice hopper, and the control board section. The following pages will introduce you to the most advanced blending system available today.

- 2.1 The Blend Station: contains a powerful blender motor that is controlled by the microprocessor in the control board. You can select the speed and duration of each blend cycle for each drink size.
- 2.2 The Ice Hopper: contains a double auger system for consistent ice delivery to ensure that your drinks are the same every time. The ice hopper will hold six gallons of ice. The hopper is insulated to minimize temperature loss. The hopper also integrates an interlock safety feature to prevent personal injury – the removal of the lid will stop the movement of the augers.
- 2.3 The Control Board: contains the microprocessor that controls all of the functions of the unit. The control board is utilized to make and program drinks.
- 2.4 Water Input Line: allows cold water to be added to drinks to help reconstitute concentrated purees or to help increase volume.
- 2.5 Drain Line: provides for the removal of melt water as well as minor spillage in the blend station. Drain line is located on the back of the unit.

2.6 Model differences:

There are 10 models of BI, below is an explanation of the differences:

- **Voltage:** 120VAC units

Models BI-501 and BI-503: 1800Watts, 15Amps

Models BI-505 and BI-506: 2400Watts, 20Amps

240VAC units

Models BI-502 and BI-504: 1800Watts, 7.5Amps

- **Size:**

Narrow Versions (Models BI-503, -504, -506):

Height: 32"

Width: 12"

Length (depth): 20"

Wide Versions (Models BI-501, -502, -505)

Height: 32"

Width: 18.5"

Length (depth): 13.5"

- **Limitations:**

Volume Limited - Models BI-501 through BI-506

This means that products other than those dispensed by the unit (additional ice cream, yogurt, etc.) can be added to the blending jar before dispensing. This limits the blending capacity to 32 ounces.

## Section 3: Installation

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Read all instructions, cautions, notes and warnings before attempting to setup and operate this machine. Warranties may be voided if this machine is improperly installed.

- 3.1 Counter Placement: insure there are at least 4 inches on each side and at least 6 inches in back (room for plumbing). Be sure there is sufficient room above the BI to remove the ice hopper lid and put ice in the ice hopper during regular use. Counter location should be near water and ice.

- 3.2 Electrical Connections:

Models BI-501 and BI-503: 1800Watts, 15Amps – require a 20AMP dedicated 120VAC receptacle NEMA 5-15R (see figure 1).



Figure 1 – NEMA 5-15R

Models BI-505 and BI-506: 2400Watts, 20Amps – require a 20AMP dedicated 120VAC receptacle NEMA 5-20R (see figure 2).



Figure 2 – NEMA 5-20R

Models BI-502 and BI-504: 1800 and 2400 Watts respectively, 7.5Amps – require cord set specific receptacles with 10Amp dedicated circuits.

- 3.3 Water Connection: 3/8" Compression fitting. Located behind the lower panel in the upper right-hand corner (from the rear of the machine). It is recommended that you use a reinforced water line with this unit. Incoming water must have a pressure rating of at least 30PSI (no greater than 120) to operate correctly. It is recommended adding a inline water filter with a flow rate of at least 1 gallon per minute. The Blender Dispenser with Ice must be installed with adequate back-flow protection to comply with Federal, state or local codes having jurisdiction.
- 3.4 Drain Connection: 3/4" Hose Bib fitting. Located on the lower left-hand corner (from the rear of the machine). It is recommended that you use Teflon tape on the threads to help prevent leaks. Only a rigid reinforced hose with at least a 3/4" ID should be used to prevent kinking and backflow into the blender chamber. The

Blender Dispenser with Ice must be installed with adequate back-flow protection to comply with Federal, state or local codes having jurisdiction.

## Section 4: Basic Operations

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- 4.1 **Loading Ice:**  
Remove the black ice hopper lid from atop the unit (removing the lid will disable the functions of the unit). Carefully pour up to 6 gallons of ice into the ice hopper. Ensure that the ice covers both augers to ensure the most consistent ice dispense. Place the lid back on the top of the unit to re-enable the unit to function. If you are filling an empty ice hopper you should prime the system by putting a blender jar in the blend station and press the ICE button on the control panel (see 4.4).
- 4.2 **Making Drinks:**  
Place a filled blender jar in the blend station with the blender lid in place. After programming drinks into the microprocessor (see section 6.0), you simply press the drink number (1-64) of the drink, select the size (S, M or L) and then press GO. The unit will automatically dispense ice and water and then blend. All parameters for drink production can be manipulated to suit your needs (see section 6.0).
- 4.3 **Dispense Ice Only:**  
This feature will allow you to dispense Ice only. Press and hold the ICE button to dispense the desired amount of ice. The ice will dispense as long as the ICE button is held down or to 25 seconds. Use this feature when you filling an empty ice hopper to prime the system.
- 4.4 **Dispense Water Only:**  
By pressing and holding the WATER button you can dispense cold water only as desired. The maximum amount of time the feature will run is 25 seconds.
- 4.5 **Run Blender Motor Only:**  
This feature can be used in two ways: as a ramp pulse (gradually increasing speed) or to run a constant speed. To use as a ramp pulse, press and hold the BLEND button until the drink is completed, the motor will stop when the BLEND button is released. To run at a constant speed, select the speed (1-9) and then press and hold the BLEND button. The unit will run until the BLEND button is released or for 25 seconds.

## Section 5: Cleaning and Sanitizing

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### 5.1 After Each Use:

After every use of the unit, the operator should ensure that the blender jar has been rinsed, the blend station has been wiped out if there is spillage, and that the blender door is wiped down if there is spillage. **Always keep an empty jar on the blender motor when the unit is not in use.** This helps any melt water that is not captured by the ice hopper drain from creeping into the blender motor itself.

### 5.2 Jar Care:

**SHORT TERM** – as needed, wash the jars with a mild detergent solution. Do not immerse the jars for longer than necessary in any type of liquid. Wash quickly (with a smooth cloth or sponge), rinse, sanitize with appropriate solution (some sanitizer manufacturers require their sanitizer to remain in contact with the sanitized object for a specific amount of time before rinsing or removing. Refer to your manufacturer’s instructions before rinsing) and rinse again. Hold the jar by the handle and give three or more sharp downward shakes to remove all water from around the shaft area. Then place the jar upside down on a rack to dry.

**LONG TERM** – as needed, fill the jar with hot water and a tablespoon of chlorine bleach (or other chlorine based sanitizer per manufacturer’s instructions). Stir and let set for 5 minutes. Empty and rinse with clear hot water. Hold the jar by the handle and give three or more sharp downward shakes to remove all water from around the shaft area. Then place the jar upside down on a rack to dry.

### 5.3 Short Term (Unit):

As time permits (daily or weekly), wipe down the exterior of the unit and the interior of the blend station with a damp rag. Carefully tilt the machine either back or forward (2 person operation) and wipe underneath the unit with a damp rag. Disconnect the drain tube from the back of the unit and run hot sanitizer solution through the tube to help keep the tube clear.

### 5.4 Long Term (Unit):

As time permits (monthly), sanitize all product lines and ice hopper utilizing the steps below. The best time to perform this cleaning cycle is either before or after work hours when you have plenty of time. Mix up 2-5 gallons of sanitizer solution per the manufacturer’s directions.

#### 5.4.1 ICE HOPPER:

##### 5.4.1.1 Turn off the power. Remove all ice from the ice hopper.

Manually take the ice out around the augers. Once you have removed as much ice as you can, replace the ice hopper lid and place an empty blender jar in the blend station. Turn the power back on. Press and hold the ICE button to dump the remaining ice pieces. Empty the jar and replace in the blend station.

- 5.4.1.2 Spray or wipe the interior surface of the ice hopper with a mild soapy solution. Allow this solution to remain in contact with the ice hopper surfaces for at least five minutes.
  - 5.4.1.3 Spray clean, hot water over the surfaces of the ice hopper to rinse the soapy solution away. A handheld spray bottle will work best. The rinse water will mostly run down the drain of the unit but some will go into the empty blender jar (watch so that it does not overflow and empty as needed).
  - 5.4.1.4 Spray the sanitizing solution over the surfaces of the ice hopper. A handheld spray bottle will work best. Remember that some sanitizer manufacturers require their sanitizer to remain in contact with the sanitized object for a specific amount of time before rinsing or removing. Refer to your manufacturer's instructions before rinsing.
  - 5.4.1.5 Rinse the ice hopper surfaces with clean, hot water following step 5.4.1.3 above. A handheld spray bottle will work best.
- 5.4.2 BLEND STATION:
- 5.4.2.1 Remove the blender jar from the blender station (empty if needed).
  - 5.4.2.2 Using a mild soapy solution, wipe down all surfaces of the blend station. Excess water will drain through the drain opening located at the back of the unit.
  - 5.4.2.3 Use clear, hot water to rinse the surfaces of the blend station. A handheld spray bottle will work best.
  - 5.4.2.4 To sanitize the surfaces of the blend station either spray or wipe the surfaces of the blend station with the sanitizing solution.
  - 5.4.2.5 Remove the blend station door by opening the door and gently lifting it off the hinges (do not lose the small plastic washers). Wash the door in the sink and allow to air dry.
  - 5.4.2.6 Use clear, hot water to rinse the sanitizing solution off the surfaces of the blend station.
  - 5.4.2.7 Dry any water off the blender motor area and replace the blender door.
- 5.4.3 DRAIN HOSE:
- 5.4.3.1 After sanitizing the ice hopper and blend station, the internal drain tube should be fairly well cleaned so it is not necessary to run sanitizer down the internal tube again.
  - 5.4.3.2 Remove the drain hose from the back of the machine.
  - 5.4.3.3 Slowly pour sanitizer solution down the tube. It is not necessary to rinse the drain hose.

## Section 6: Basic Programming

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This section will help you with the basics of programming and allows for the programming of drinks to your requirements. This feature will give you the opportunity to view, and if necessary, change your data set parameters (see figure 3 for the data set sequence).

|          | Watr | Ice | Stime | Scycl | Mtime | Mcycl | Ltime | Lcycl | Pause |
|----------|------|-----|-------|-------|-------|-------|-------|-------|-------|
| Drink 1  |      |     |       |       |       |       |       |       |       |
| Drink 2  |      |     |       |       |       |       |       |       |       |
|          |      |     |       |       |       |       |       |       |       |
|          |      |     |       |       |       |       |       |       |       |
| Drink 64 |      |     |       |       |       |       |       |       |       |

Figure 3 – Date set sequence in programming mode.

### 6.1 Program Mode:

This is the mode that you will utilize to change settings for water, ice, blend cycles and blend times and pause. To enter the mode you press 7-8-9-GO in sequence. The display will change from “Enter Drink #” to “Drink 1 Watr 00”.

- 6.1.1 Navigating in the program is done with the S, M, L and GO buttons on the control panel.
- 6.1.2 The S and M buttons move you up and down in drinks; 1-64 on M and 64-1 on S.
- 6.1.3 The L and GO button will move you up and down in the data sets; GO moves forward (Watr, Ice) and L moves backward (Ice, Watr).
- 6.1.4 You must enter the programming mode before any changes can be made.
- 6.1.5 To exit the programming mode at any time press the STOP button twice.
- 6.1.6 It is possible to access a specific drink number in the Drink Settings Menu (7-8-9-GO) by pressing a 1, then the drink number (1 to 64), and then GO.

### 6.2 Adjusting Water:

- 6.2.1 Scroll to the Water data set by pressing either the L or GO buttons.
- 6.2.2 Water is also entered in tenths of a second. Water dispense should not vary unless your water pressure coming into the unit is less than 30psi.
- 6.2.3 Enter the value required by pressing the numbers on the control pad and then pressing the GO button.
- 6.2.4 To zero out the water value, enter 0 on the keypad and press GO.

### 6.3 Adjusting Ice:

- 6.3.1 Scroll to the Ice data set by pressing either the L or GO buttons.
- 6.3.2 Ice is also entered in tenths of a second.
- 6.3.3 Enter the value required by pressing the numbers on the control pad and then pressing the GO button.
- 6.3.4 To zero out the ice value, enter 0 on the keypad and press GO.
- 6.3.5 Ice dispense rate may vary depending on the type and shape of ice cube that you utilize. See Section 7.1 for calibration instructions.

6.4 Adjusting Blend Times:

- 6.4.1 Scroll to the first blend time data set (Small) by pressing either the L or GO buttons.
- 6.4.2 Blend times are in whole seconds. 21 in the blend cycle set represents 21 seconds of blend time. The blender motor will run for the programmed time and then stop.
- 6.4.3 The blender motor will run in the pattern as described by the Cycle in the next data set.
- 6.4.4 To zero out the blend time value, enter 0 on the keypad and press GO.
- 6.4.5 To move to the next blend time for Medium or Large press the GO button to reach them (cycle settings are between each).

6.5 Adjusting Blend Cycles:

- 6.5.1 Scroll to the first blend cycle data set (Small) by pressing either the L or GO buttons.
- 6.5.2 There are 6 pre-programmed cycles already stored in the unit. See figure 4 below.
- 6.5.3 Select the cycle you want by pressing the appropriate number (1-6) and press GO.

|         | SpeedA | TimeA | SpeedB | TimeB | SpeedC | TimeC | SpeedD | TimeD | SpeedE | TimeE | SpeedF | TimeF | SpeedG | TimeG | SpeedH | TimeH |
|---------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|
| Cycle 1 | 5      | 15    |        |       |        |       |        |       |        |       |        |       |        |       |        |       |
| Cycle 2 | 6      | 15    |        |       |        |       |        |       |        |       |        |       |        |       |        |       |
| Cycle 3 | 7      | 15    |        |       |        |       |        |       |        |       |        |       |        |       |        |       |
| Cycle 4 | 3      | 1     | 4      | 1     | 1      | 2     | 3      | 1     | 4      | 2     | 5      | 2     | 6      | 2     | 7      | 3     |
| Cycle 5 | 3      | 1     | 5      | 1     | 1      | 2     | 3      | 2     | 5      | 2     | 3      | 3     | 6      | 6     | 8      | 6     |
| Cycle 6 | 3      | 2     | 1      | 3     | 3      | 3     | 5      | 3     | 6      | 4     | 7      | 15    | 8      | 6     |        |       |

Figure 4 standard blend cycle profiles.

- 6.5.4 Regardless of the time listed above (figure 4), the blender motor will run for the amount of time that you have programmed into the Cycle time data set. However, the cycle will start over at the beginning of its programmed time. In other words, looking at Cycle 5 above, you can see that it is set for a total time of 24 seconds. If your cycle time is greater than 24 seconds, the cycle will start over at the lower speed and repeat until the time is up.
- 6.5.5 You must have a cycle programmed into the data set even if you have no cycle time.
- 6.5.6 Press the GO button to move to the Mcycl and Lcycl data sets and change or set as needed.
- 6.5.7 Blend cycles 7, 8, 9 and 10 can be customized for your needs. See Section 7.12 for instructions.

6.6 Adjusting Pause:

- 6.6.1 Scroll to the pause data set (Small) by pressing either the L or GO buttons.

- 6.6.2 Pause is the amount of time the blender motor will wait until it begins to blend.
  - 6.6.3 The use of Pause is to allow your ingredients to dispense into the blender jar without being thrown back out.
  - 6.6.4 Pause is again, in whole seconds. Enter the value with the number keys on the control panel and press GO.
- 6.7 Changing the Drink Size Ratio:
- 6.7.1 You can set the drink sizes for the S, M and L buttons on the keypad.
  - 6.7.2 To access the menu, press 7-8-8-GO on the control pad (from the Enter Drink # screen).
  - 6.7.3 The display will now read “Size Small XX”. Enter the size, in ounces, of the small drink you want to make and press GO.
  - 6.7.4 The data set will automatically move to the Size Medium data set; enter the ounces size of your medium drink and press GO.
  - 6.7.5 The data set will automatically move to the Size Large data set; enter the ounces size of your large drink and press GO.
  - 6.7.6 It is not necessary to have all three sizes, but you must have a “small” drink. The “small” drink size correlates directly with the data set programmed into the 7-8-9-GO menu. **This is very important!** If you set your 7-8-9-GO menu, ice and water values to make a 12 ounce drink and your small size to 14 you will **only** make 12 ounce drinks and the M and L drinks will not turn out correct. The microprocessor uses the small drink size and the settings in the 7-8-9-GO menu to automatically generate your M and L drinks. Ensure that the size of drink and the programmed data sets match directly.
  - 6.7.7 Press the STOP button twice to exit the drink size menu.

## Section 7: Advanced Programming

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This section is intended for the owner/manager of the location who will take the time to fully understand the system and the information contained herein. Greater detail is spent on controls and reports the unit can supply. All functions are accessed by pressing 7-8-9-GO on the control panel unless otherwise noted.

### 7.1 Calibration:

There are two ways to optimize the drinks made in the BI. You can use the trial and error method, which involves making small changes to a drink and testing each change as you go until you get it the way you want it. Or, you can calibrate the BI and make drinks according to a formula. This section will tell you how to isolate and calibrate each dispensing function

### 7.2 Water Flow Rate:

Calibrate Water flow:

7.2.1 With all data sets of Drink 1 at "0", press the GO or L pad until the display reads: "Drink 1 Watr 0".

7.2.2 Press 5-0-GO and then STOP twice.

7.2.3 Press S-1-GO.

7.2.4 Measure the water in the jar and divide by 5 to get the water flow rate.  
*E.g. With 2.5 oz. of water in the jar,  $2.5/5 = 0.5$  oz per second. Record this number. Because the water comes from the same valve for all drinks, the water flow rate will be the same for every drink.*

### 7.3 Ice Level Sensor:

The Ice level sensor notifies the user when the ice hopper is close to being empty. The sensor can be disabled or enabled by pressing 3-5-8-GO. The display will either read, "Ice Sensor On" or "Ice Sensor Off". Pressing S or M will make a selection. Once the mode of operation is selected press STOP to exit the menu.

### 7.4 Ice Buster:

The ice busters purpose is to run the ice auger for a period of time every so often to keep the ice ready to be dispensed. This feature allows the Ice buster to be enabled or disabled. The duration of the ice buster and the interval between ice busting can also be set from this menu.

7.4.1 Access this menu press 3-5-7-GO.

7.4.2 The screen will read, "Ice Buster On" or "Ice Buster Off". Make a selection by pressing the S or M button.

7.4.3 Press the GO button to advance the menu to the Interval between bust cycles. The screen should read, "Interval (min)\_\_\_\_". Enter the desired interval in minutes and Press go to store the value and also to advance to the duration of the bust cycle.

7.4.4 The screen will now read, "Duration (sec)\_\_\_\_" Enter the desired duration in seconds and press GO to store the value.

7.4.5 Press STOP to exit the menu.

## 7.5 Small Drink Default:

Use this feature to select the mode for the default drink size. There are 3 options. The first is for the SMALL to be the default drink size (this means that SMALL will be automatically selected after a drink has been made). The second is that the drink size will remain the same after a drink has been made. The third option is that no drink size will be selected after a drink is made (this requires that the user select a drink size each time a drink is made).

7.5.1 To make a selection for the mode of operation press 3-5-6-GO.

7.5.2 The screen will show one of the 3 following options: "Revert To Small", "Revert To Same", and "Revert To None".

7.5.3 Press the S or M button to scroll through the three options.

7.5.4 Once you have the option you want selected, press STOP. The setting you selected will be stored.

## 7.6 Restore Defaults:

There are three types of restore defaults: Drink Settings, Blend Cycles, and Misc Settings. These three will revert key setting back to the factory default. If you do not have a profile that is installed at the factory then the default settings will revert to "0".

### 7.6.1 Restore Drink Settings:

This feature will restore the Drink Settings to their factory defaults. Press 4-4-4-GO and the screen reads, "Reset Drinks?". Press GO again to confirm that the drink settings should be reset to the defaults. The screen will say "Storing Drinks" and a count will show the progress.

### 7.6.2 Restore Blend Cycles:

This feature will restore the Blend Cycles to their factory defaults. Press 4-4-5-GO and the screen reads, "Reset Cycles?". Press GO again to confirm that the Blend Cycles should be reset to the defaults. The screen will say "Storing Cycles" and a count will show the progress.

### 7.6.3 Restore Misc Settings:

This feature will restore various settings to their factory defaults. Press 4-4-6-GO and the screen reads, "Reset Settings?". Press GO again to confirm that the settings should be reset to the defaults. The settings that will be reset to factory defaults are: The Ice Sensor will be set to ON, Ice Low Temperature will be set to 10C, the Size Default will be set to Revert to Small, the ice buster will be set to ON, the Ice Buster Interval will be set to 30 minutes, and the Ice Buster Duration will be set to 6 seconds.

## 7.7 Locking the Machine:

This feature allows the manager/owner to lock the machine out of use by other employees without the use of a code. The manager/owner can decide and change the lockout code at will.

### 7.7.1 Change or set machine lock out code:

Enter 7-7-8-GO on the keypad. The screen will then read, "Enter Code:". Enter the current code (the factory default is 0) and press GO. The screen now reads, "New Code:". Enter the new one to four digit code that is desired and press GO. The screen then reads, "Re-Enter:" Re-enter the desired code and press GO.

7.7.2 Lock Machine:

To lock the machine press 7-7-7-GO. This will disable all functions except for the ice buster. The screen will say, "Enter Code:". The machine will not work until the correct security code is entered and the GO button is pressed.

7.7.3 Write your code down and hide it in case you forget. If you do forget your code and cannot find where you have it written down call us for assistance at 1-800-253-6383.

7.8 Drink Counts:

The following options allow the user to maintain counts of the individual drinks made by day and total for lifespan.

7.8.1 Total Machine Count:

To access the machine count press 8-0-0-GO. The machine count will be displayed. If the number of cycles has exceeded 65,535 cycles then there will be a multiplying counter that is displayed also. The multiplying counter will increment each time the machine count reaches 65,535 and resets to 0. To exit the machine count screen press STOP twice. This count cannot be reset.

7.8.2 Individual Drink Counts:

Each time a Drink Cycle is run a respective count will be incremented. This count can be viewed by pressing 8-0-1-GO. The screen will read, "Drink # 1 \_\_\_\_". Use the M button to increment the Drink number and use the S button to decrement the Drink number. These counts can be cleared by using the 8-0-3-GO feature.

7.8.3 Total Drink Count:

A total of all of the individual drinks can be viewed by pressing 8-0-2-GO. This total count is reset to zero when the 8-0-3-GO feature is executed.

7.8.4 Clear Drink Count:

By pressing 8-0-3-GO, all of the individual drink counts are cleared as well as the Total Drink Count. After pressing 8-0-3-GO, the screen reads, "Clear Counts?". Press GO to confirm that the Counts should be cleared.

7.9 Advanced Blend Cycle Control

This feature allows the user to customize up to 10 blend cycles.

7.9.1 Press 7-9-0-GO to access the Blend Cycle Menu.

7.9.2 The first thing that appears on the screen is, "Cycle 1 SpeedA: 0".

7.9.3 From this point use the S, M, L, and Go buttons to navigate to any of the parameters in the Blend Cycle. S will decrement the Blend Cycle number, M will increment the Blend Cycle number, L will advance through the

- speed/time parameters in the reverse direction, and Go will advance through the speed/time parameters in the forward direction.
- 7.9.4 Enter the speed for SpeedA. (Speeds start at 1 and continue through 9 with 9 being the most aggressive.) Press GO to store the value.
  - 7.9.5 The data set will change to TimeA. Enter the time in whole seconds that you want the blender to run the speed and press GO.
  - 7.9.6 Repeat the steps to input the blend speeds and times for each sub speed and time to create a cycle to set up to your own parameters. All 10 of the cycles can be manipulated.
  - 7.9.7 Note – you can reduce the amount of noise coming from the blender motor by keeping the blender speed under 7. We recommend that you only manipulate cycles 7-10 and leave the default cycles alone.
  - 7.9.8 Press STOP twice to exit the menu.

## Section 8: Troubleshooting

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We hope you will never have to use this section but if you do, please don't take offense at some of the simplistic answers. We have had most of these problems occur during our development and with other customers.

- 8.1 **Machine won't run.** Check the power cord to be sure it is plugged into a live, grounded 20 Amp. 120 V. circuit. Check that the switch on the back of the machine is in the ON position. Check in the rear of the machine to see if the circuit breaker button has tripped (little white button). If it has press the breaker button back in to reset it (the BI takes a 13 AMP circuit breaker)
- 8.2 **Blender Stopped Working:** If the unit does not blend, check in the rear of the machine to see if the circuit breaker button has tripped. If it has press the breaker button back in to reset it (the BI takes a 13 AMP circuit breaker).
- 8.3 **Ice Stopped Dispensing or Ice Auger Not Turning:** Insure there is ice in the hopper. Check for obstructions (foreign objects) and blockage in the ice hopper and its chute. Replace the ice hopper lid or make sure it is firmly in place to activate the lid sensor switch and try again.
- 8.4 **Ice Dispenses When Not in Use:** If the machine dispenses ice by itself for about two seconds every hour or so, this is just our timed ice "cluster-buster" being automatically activated. The Blender Dispenser-Ice is programmed with a timed ice "cluster-buster" that will activate the ice auger every 30 minutes and dispense ice for six seconds when the machine is on, but not in use. This helps keep the ice cubes from possibly freezing into one big block of ice over time. The timer resets after the last drink made; meaning if the machine does not make a drink 30 minutes after the last drink was made then the ice auger will turn for six seconds every hour. Therefore, it is important to always have a jar in the blender station to

catch any ice that may be dispensed during that two second turning of the ice auger.

- 8.5 **Drinks too soft.** Insure the ice hopper is full. See *Section 6* to reprogram your ingredients if necessary. Make sure the ice hopper lid is firmly in place to activate the ice auger.
- 8.6 **Drinks too firm or Cavitation in blender.** Insure that enough product was put into the jar; the water supply is on and unblocked; the water, and ice amounts are programmed correctly. See *Section 6* above to reprogram your ingredients. Cavitation is caused when the liquid and ice mixture in the blender jar is too thick and an air pocket (or bubble) is created around the spinning blender blade. This leaves your drink stuck to the sides of the jar and full of large ice particles. Be sure to put in enough product to produce a good flavor then add water until the blender does not cavitate when you make the drink. If your drink is too watery, you can add more ice or less water until you get a drink that will form a smooth peak when you pour it into a cup.
- 8.7 **Ice chunks in drinks.** Check the blend time in the program for the drink with the chunks. Watch for cavitation, you may need to reprogram quantities. Make sure the blender aggressiveness is on the cycle speed you want, and the pause is not too long.
- 8.8 **Water Won't Dispense:** Check that the water is on and that there are no kinks in the hose to the machine. Call Blendtec Technical Support.

## Section 9: Warranty Information including Service

Blendtec warrants the BI unit for 1 year. The jars, including all moving parts, are covered against leaking or breakage for 180 days. The BI housing, controller and ice auger are warranted for one year. Should you experience any difficulty in using your BI, please proceed as follows:

- 9.1 **For Warranty Service:**  
Call Blendtec Technical Support at 1-800-Blendtec (253-6383). We will discuss the problem with you and decide on the best way to fix it. We may send a service technician to your facility and ship parts for the repair or we may ship a replacement machine to you.
- 9.2 **Blender Jars:**  
If you experience trouble with your jars, call Blendtec Customer Service and we can walk through some simple troubleshooting over the phone. If necessary, we will ship you replacement jars at no charge.

**9.3 For Non-Warranty Service:**

Call Blendtec Technical Support at 1-800-Blendtec (253-6383). We will discuss the problem with you and decide on the best way to fix it. We may send a service technician and parts to your facility or ship a replacement machine to your facility. You will be billed for the cost of repair and any shipment. All costs related to parts and replacement will be discussed before hand. Service cost will vary with provider.

**Section 10: Blank Drink Template**

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|          | Watr | Ice | Stime | Scycl | Mtime | Mcycl | Ltime | Lcycl | Pause |
|----------|------|-----|-------|-------|-------|-------|-------|-------|-------|
| Drink 1  |      |     |       |       |       |       |       |       |       |
| Drink 2  |      |     |       |       |       |       |       |       |       |
| Drink 3  |      |     |       |       |       |       |       |       |       |
| Drink 4  |      |     |       |       |       |       |       |       |       |
| Drink 5  |      |     |       |       |       |       |       |       |       |
| Drink 6  |      |     |       |       |       |       |       |       |       |
| Drink 7  |      |     |       |       |       |       |       |       |       |
| Drink 8  |      |     |       |       |       |       |       |       |       |
| Drink 9  |      |     |       |       |       |       |       |       |       |
| Drink 10 |      |     |       |       |       |       |       |       |       |
| Drink 11 |      |     |       |       |       |       |       |       |       |
| Drink 12 |      |     |       |       |       |       |       |       |       |
| Drink 13 |      |     |       |       |       |       |       |       |       |
| Drink 14 |      |     |       |       |       |       |       |       |       |
| Drink 15 |      |     |       |       |       |       |       |       |       |
| Drink 16 |      |     |       |       |       |       |       |       |       |
| Drink 17 |      |     |       |       |       |       |       |       |       |
| Drink 18 |      |     |       |       |       |       |       |       |       |
| Drink 19 |      |     |       |       |       |       |       |       |       |
| Drink 20 |      |     |       |       |       |       |       |       |       |
| Drink 21 |      |     |       |       |       |       |       |       |       |
| Drink 22 |      |     |       |       |       |       |       |       |       |
| Drink 23 |      |     |       |       |       |       |       |       |       |
| Drink 24 |      |     |       |       |       |       |       |       |       |
| Drink 25 |      |     |       |       |       |       |       |       |       |