



FLAVOR SELECT 30 (FS30) ICE BEVERAGE DISPENSER

Installation and Service Manual



LANCER

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ISO 9001:2000 Quality System Certified

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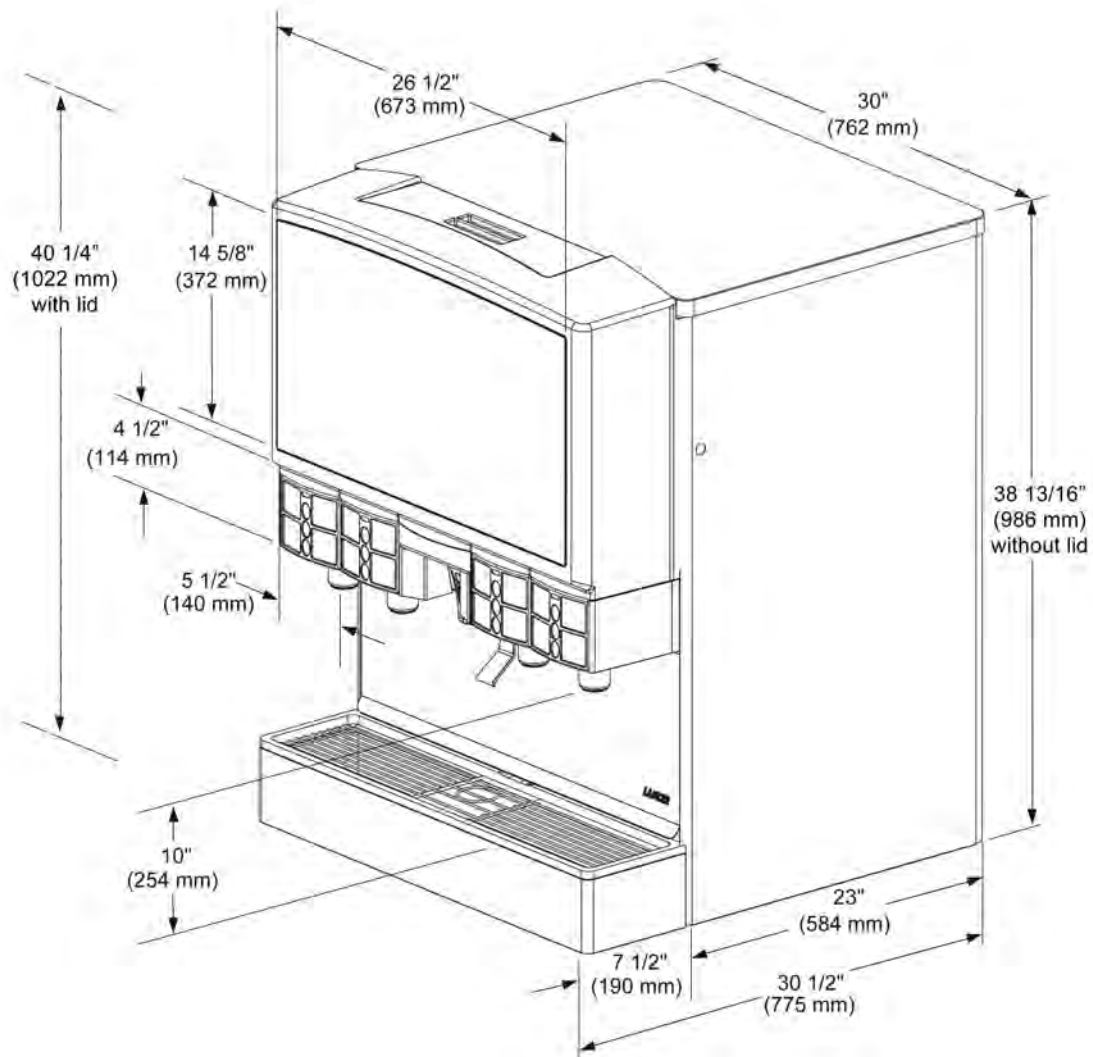
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ABOUT THE FS30

The FS30 is designed using the highest quality materials and state-of-the-art technology providing our customers with consistent quality and a unique drink experience.

FS30 SPECIFICATIONS



<p>DIMENSIONS Width: 30 in (762 mm) Depth: 30.5 in (775 mm) Height: 40.25 in (1022 mm)</p> <p>SPACE REQUIRED Left Side: 1 in (25 mm) Right side: 1 in (25 mm) Back: 1 in (25 mm) Top: 6 in (152 mm) Optional legs: 4 in (102 mm)</p> <p>ELECTRICAL 115VAC/60Hz, 7AMPs, 805 Watts</p>	<p>WEIGHT Without ice: 320 lbs (145 kg) With ice: 620 lbs (281 kg) Shipping: 356 lbs (161 kg)</p> <p>ICE Capacity: 290 lbs (132 kg) Dispensable: 215 lbs (98 kg)</p> <p>FITTINGS Water for carbonator inlet: 3/8" barb Plain water inlet: 3/8" barb Brand syrup inlets: 3/8" barb Injection flavor inlets: 1/4" barb CO₂ inlet: 3/8" barb</p>	<p>PLAIN WATER Min flowing pressure: 75 PSIG (5.28 kg/cm², 5.16 BAR)</p> <p>CARBONATOR WATER SUPPLY Min flowing pressure: 25 PSIG (1.76 kg/cm², 1.72 BAR) Max static pressure: 50 PSIG (3.52 kg/cm², 3.45 BAR)</p> <p>CARBON DIOXIDE (CO₂) Min pressure: 70 PSIG (4.92 kg/cm², 4.83 BAR) Max pressure: 80 PSIG (5.62 kg/cm², 5.52 BAR)</p>
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FS30 FEATURES

Cold carbonation for consistently better drink quality.

16 brands for over 112 flavor possibilities.

Add up to 12 bonus flavors to create an exceptional drink experience.

Self-contained with multiple ice fill options.

Fits in current 30" IBD footprint.

"AirMix™" nozzles blend syrup and water in mid-air for consistent drink delivery.

Large capacity removable drip tray and cuprest.

Pellet ice-capable dispense available.

Lancer LFCV valves.

Keylock switch for valves.

Field configurable.

Front connection for products.

STANDARD FS30 DISPENSERS

85-14808-12	ICE BEVERAGE DISPENSER, ABOVE COUNTER MULTI BRAND, 30 INCH WIDE, 8 BRANDS / 12 FLAVORS, 115V/60Hz	CUBED ICE
85-14808N-12	ICE BEVERAGE DISPENSER, ABOVE COUNTER MULTI BRAND, 30 INCH WIDE, 8 BRANDS / 12 FLAVORS, 115V/60Hz	PELLET ICE
85-14810-12	ICE BEVERAGE DISPENSER, ABOVE COUNTER MULTI BRAND, 30 INCH WIDE, 10 BRANDS / 12 FLAVORS, 115V/60Hz	CUBED ICE
85-14810N-12	ICE BEVERAGE DISPENSER, ABOVE COUNTER MULTI BRAND, 30 INCH WIDE, 10 BRANDS / 12 FLAVORS, 115V/60Hz	PELLET ICE
85-14812-12	ICE BEVERAGE DISPENSER, ABOVE COUNTER MULTI BRAND, 30 INCH WIDE, 12 BRANDS / 12 FLAVORS, 115V/60Hz	CUBED ICE
85-14812N-12	ICE BEVERAGE DISPENSER, ABOVE COUNTER MULTI BRAND, 30 INCH WIDE, 12 BRANDS / 12 FLAVORS, 115V/60Hz	PELLET ICE
85-14814-12	ICE BEVERAGE DISPENSER, ABOVE COUNTER MULTI BRAND, 30 INCH WIDE, 14 BRANDS / 12 FLAVORS, 115V/60Hz	CUBED ICE
85-14814N-12	ICE BEVERAGE DISPENSER, ABOVE COUNTER MULTI BRAND, 30 INCH WIDE, 14 BRANDS / 12 FLAVORS, 115V/60Hz	PELLET ICE
85-14816-12	ICE BEVERAGE DISPENSER, ABOVE COUNTER MULTI BRAND, 30 INCH WIDE, 16 BRANDS / 12 FLAVORS, 115V/60Hz	CUBED ICE
85-14816N-12	ICE BEVERAGE DISPENSER, ABOVE COUNTER MULTI BRAND, 30 INCH WIDE, 16 BRANDS / 12 FLAVORS, 115V/60Hz	PELLET ICE



Dispensers using cubed ice may also use pellet ice if properly configured (contact Lancer Customer Service or your Sales Representative for more information).

Lancer dispensers will not dispense shaved or flaked ice.

Do not use bagged ice. Bagged ice will damage components.

PRE-INSTALLATION CHECKLIST

BEFORE GETTING STARTED

Each unit is tested under operating conditions and is thoroughly inspected before shipment. At the time of shipment, the carrier accepts responsibility for the unit. Upon receiving the unit, carefully inspect the carton for visible damage. If damage exists, have the carrier note the damage on the freight bill and file a claim with carrier. Responsibility for damage to the dispenser lies with the carrier.

POST MIX ACCESSORIES:

- CO₂ Regulator Set
- Beverage Tubing
- CO₂ Supply
- Water Booster
- Oetiker Clamps/Fittings
- Water Regulator

BIB SYSTEM:

- BIB Rack
- BIB Regulator Set
- BIB Connectors - ensure you have the correct connectors for syrup lineup.
- BIB Syrup Boxes

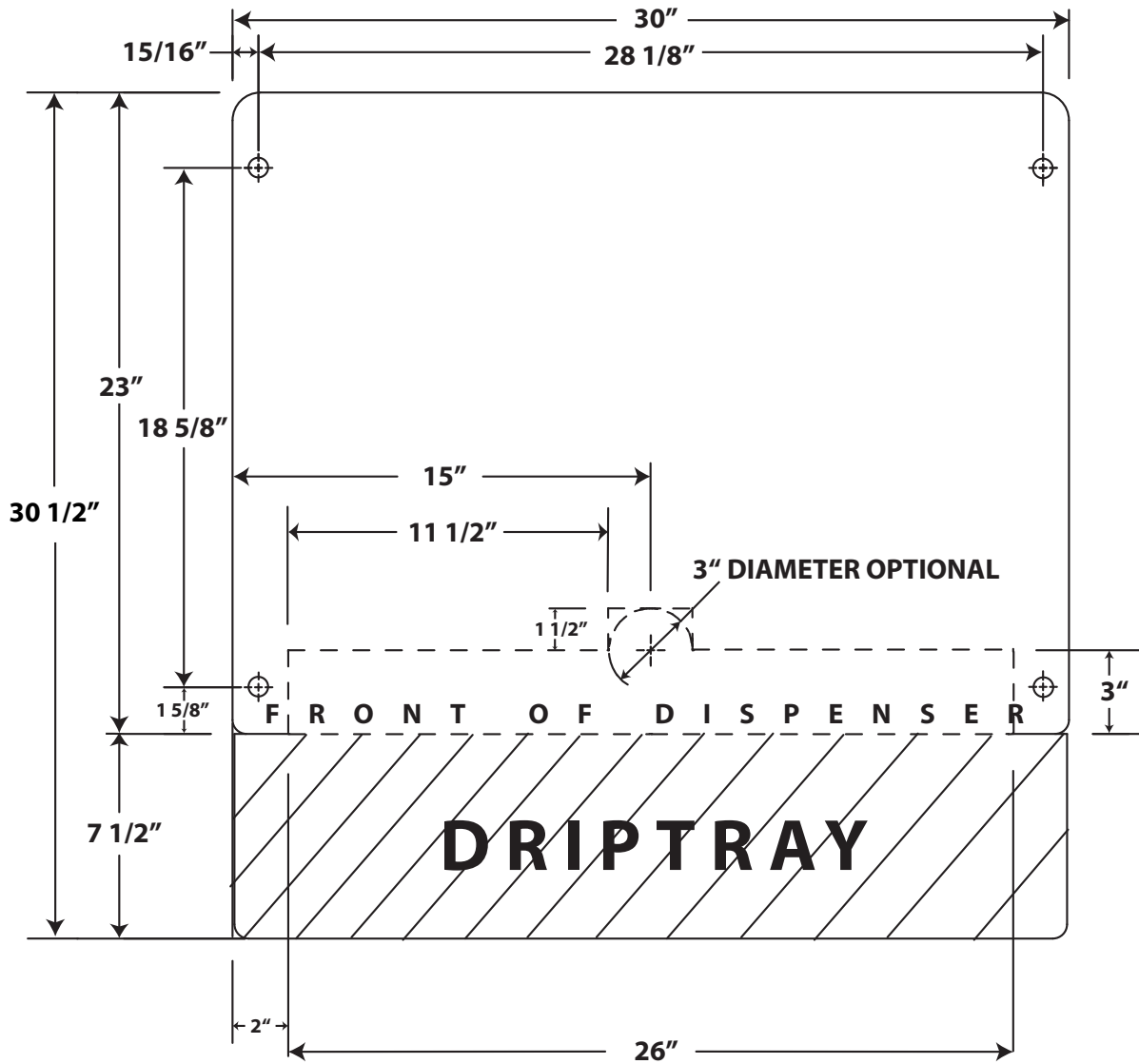
DOUBLE CHECK:

- Is the countertop level?
- Is there enough space to install the dispenser? Be sure to include space for a top-mounted ice machine, if necessary.
- Can the countertop support the weight of the dispenser? Be sure to include the weight of an ice machine (if necessary) plus the weight of the ice.
- Does the top-mounted ice machine have a minimum clearance on all sides?

CONSIDER THE LOCATION OF THE FOLLOWING BEFORE INSTALLATION:

- Water supply lines
- Drain
- Grounded electrical outlet
- Heating and air conditioning ducts
- Direct sunlight (avoid) or overhead lighting

FS30 COUNTER CUTOUT



--- CUT OUT DASHED AREA
 ⊕ OPTIONAL HOLES FOR FASTENING DISPENSER TO COUNTER WITH SCREWS

SAFETY



WARNING!

AUTOMATIC AGITATION

The dispenser is equipped with automatic agitation and will activate unexpectedly. Do not place hands or foreign objects in the ice storage compartment. Unplug the dispenser during servicing, cleaning, and sanitizing.

To avoid personal injury, do not attempt to lift the dispenser without assistance. For heavier dispensers, use a mechanical lift.



WARNING!

GROUNDING

The dispenser must be properly electrically grounded to avoid serious injury or fatal electrical shock. The power cord has a three-prong grounded plug. If a three-hole grounded electrical outlet is not available, use an approved method to ground the unit. Follow all local electrical codes when making connections. Each dispenser must have a separate electrical circuit. Do not use extension cords. Do not connect multiple electrical devices on the same outlet.

ALWAYS disconnect power to the dispenser before attempting any internal maintenance. The resettable breaker switch should not be used as a substitute for unplugging the dispenser from the power source to service the unit. **NOTE:** the keyswitch does not turn off power to the dispenser. It must be physically unplugged.

Only qualified personnel should service the internal components of the dispenser. Avoid any contact with water when plugging in the dispenser.



WARNING!

CARBON DIOXIDE

Carbon Dioxide (CO₂) is heavier than air and displaces oxygen. CO₂ is a colorless, noncombustible gas with a faintly pungent odor. High percentages of CO₂ may displace oxygen in the blood. Prolonged exposure to CO₂ can be harmful. Personnel exposed to high concentrations of CO₂ gas will experience tremors which are followed rapidly by a loss of consciousness and suffocation. Strict attention must be observed in the prevention of CO₂ gas leaks in the entire CO₂ and soft drink system. If a CO₂ gas leak is suspected, immediately ventilate the contaminated area before attempting to repair the leak.

The minimum/maximum ambient operating temperature for the dispenser is 40 to 90 degrees F.

The dispenser is for indoor use only.

1. INSTALLATION

1.1 SELECTING A LOCATION FOR THE DISPENSER

MAKE SURE THE LOCATION MEETS THESE REQUIREMENTS:

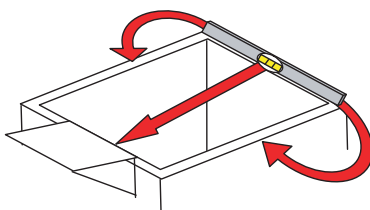
- A. Access to a dedicated, grounded 20 AMP electrical outlet.
- B. Convenient to an open drain with access for soda, water, and syrup lines.
- C. Sufficient clearance above the dispenser for servicing.
- D. Counter can support the weight of the dispenser, the weight of the ice, and if necessary, an icemaker. The total weight may exceed 800 pounds (363 kg).
- E. Sufficient clearance on the sides, top and back for icemaker ventilation and air circulation. Refer to your icemaker manufacturer for specifications.
- F. If an icemaker is not top-mounted on the dispenser, make sure to provide sufficient clearance (a minimum of 6 inches (40.6 cm)) to allow filling the dispenser with ice from a five gallon (19 liter) container.
- G. Avoid direct sunlight and other heat sources.**

THINGS TO CONSIDER:

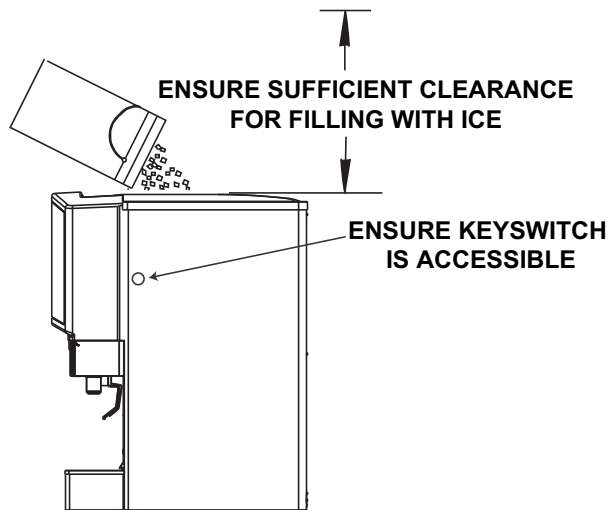
Connecting lines can be run through the back of the dispenser or extend down through a counter cutout. The dispenser may be installed directly on the countertop or on an optional leg kit (PN 82-3484), if no icemaker is installed. If installed directly on the counter, the dispenser must be sealed to the countertop.

LEVELING THE DISPENSER:

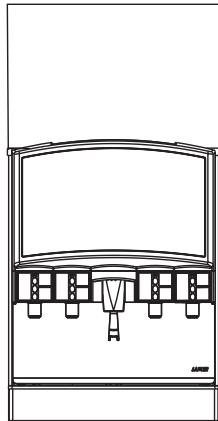
In order to facilitate proper dispenser drainage and carbonation, ensure that the dispenser is level, front to back and side to side. Place a level on the top of the rear edge of the dispenser. The bubble must settle between the level lines. Repeat this procedure for the remaining three sides. Level unit if necessary.



FS30 DISPENSER, NO ICEMAKER



FS30 DISPENSER WITH ICEMAKER



Install the icemaker per manufacturer specifications. Points of consideration include drainage, ventilation, and drop zones.

An adapter plate is required when installing an icemaker. Contact your Sales Representative or Lancer Customer Service for more information.

A bin thermostat is required in order to control the level of ice in the dispenser. Contact your icemaker manufacturer to obtain the correct bin thermostat.

Ensure the icemaker is installed properly to allow for removal of the merchandiser.

Ensure manual fill is accessible.

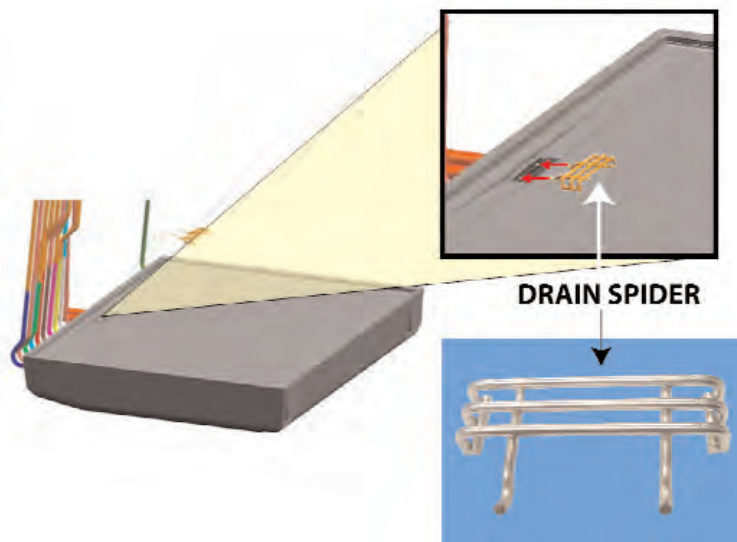
Clean and maintain icemaker per manufacturer's instructions.

1.2 UNPACKING THE DISPENSER

- A. Set the shipping carton upright on the floor.
- B. Cut band, remove.
- C. Open the top of the carton and remove the interior packing.
- D. Lift the carton up and off the dispenser.
- E. Remove the wood shipping base from the bottom of the dispenser. Support dispenser while removing the shipping base to prevent damage to the dispenser.

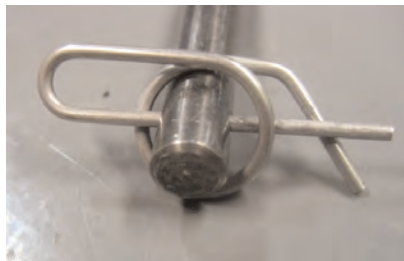
1.3 DRAIN SPIDER

The drain spider is located directly in the center of the bin under the ice shroud. The coldplate has a cavity designed to hold the drain spider. During shipment or installation, the drain spider may become dislodged from its original position.

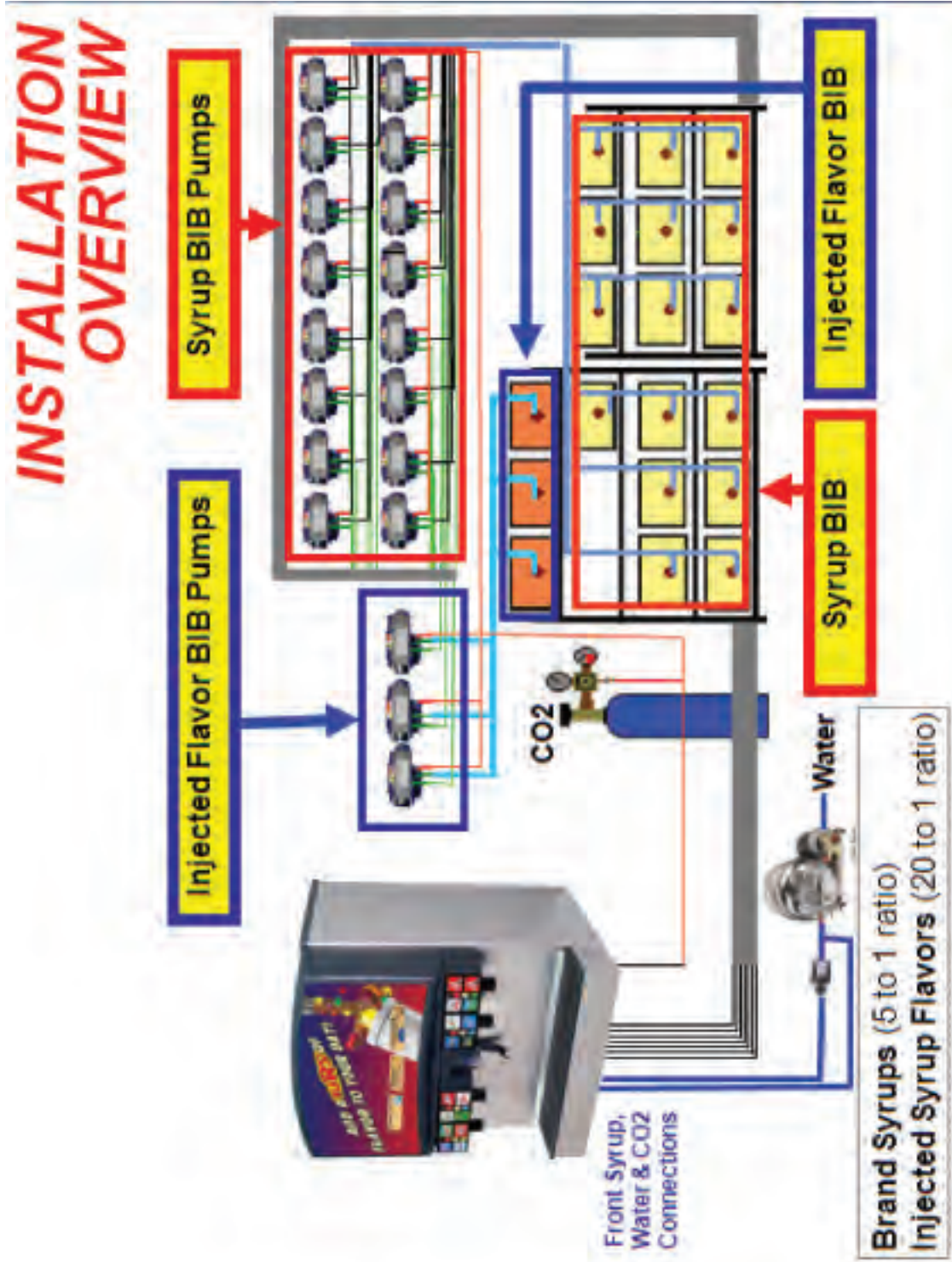


Prior to installing the dispenser, ensure the drain spider is in the correct position. This will prevent drain clog issues. Inspect the lower bin area and reach under the shroud to ensure the drain spider is secure in the coldplate cutout. If the spider is not in place, proceed with the following steps:

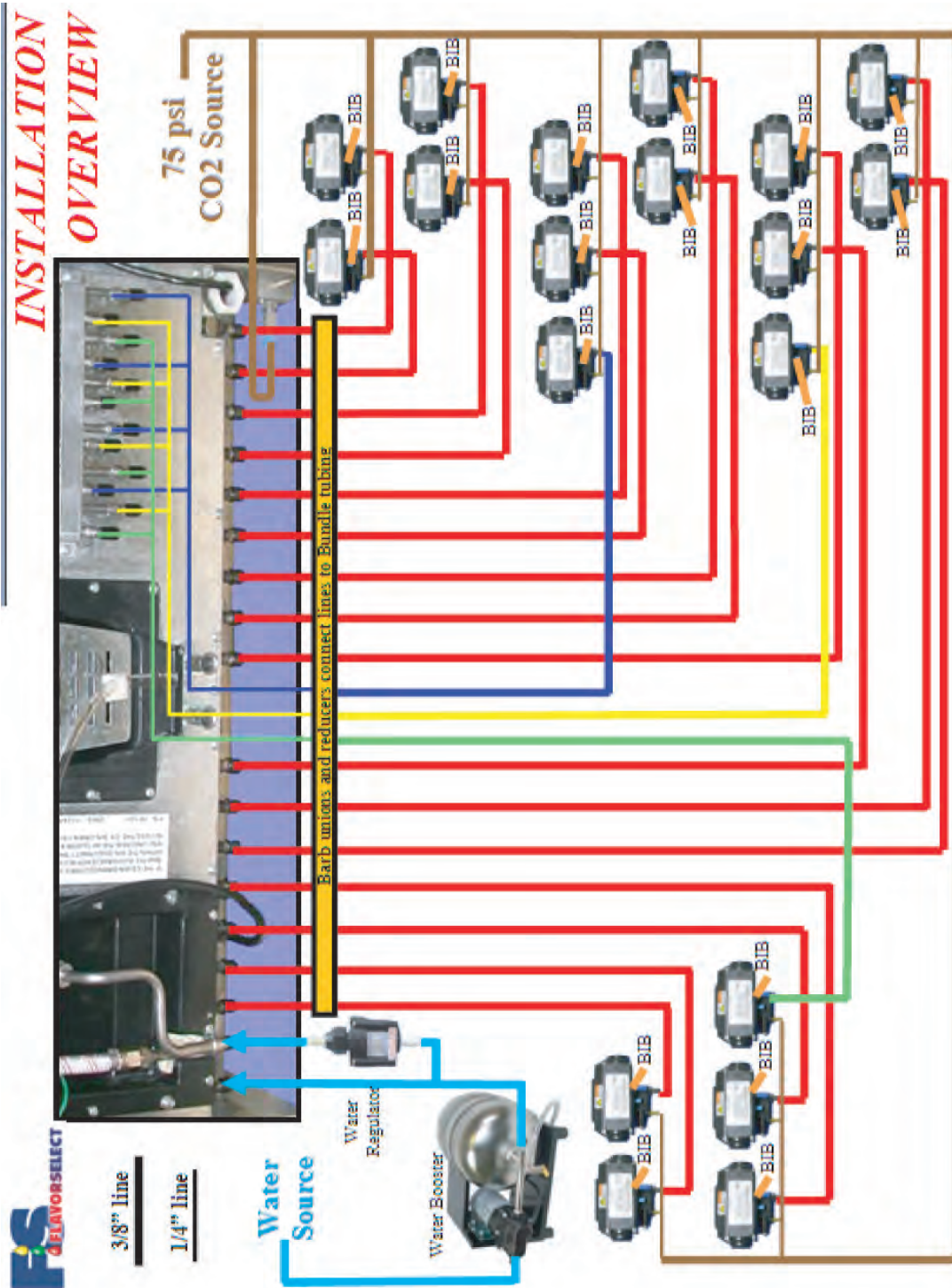
- A. Remove agitator clip and pin from agitator bar.
- B. Remove agitator bar from paddle wheel.
- C. Remove paddle wheel.
- D. Remove ice shroud by lifting back then out of bin.
- E. Locate drain spider and reinstall in the coldplate cavity where drain line exits (see figure above).
- F. Reinstall all components. Ensure agitator clip is locked:



1.4 INSTALLATION OVERVIEW 1



1.5 INSTALLATION OVERVIEW 2



1.6 CONNECTING TO WATER SUPPLY LINES

- A. Use a filter in the water line to avoid equipment damage and beverage off-taste. Check the water filter periodically, as required by local conditions.
- B. Protect the water supply by means of an air gap, a backflow prevention device, or another approved method that complies with NSF standards. A leaking inlet water check valve will allow carbonated water to flow back through the pump when it is shut off and contaminate the water supply. Ensure the backflow prevention device complies with ASSE and local standards. **It is the responsibility of the installer to ensure compliance.**



Do not operate the carbonator pump with the water supply off. Doing so can damage components and void the warranty.

- C. Provide an adequate potable water supply. Water pipe connections and fixtures directly connected to a potable water supply must be sized, installed, and maintained according to federal, state, and local laws.
- D. For the plain water supply line, the inlet water flowing pressure should be at least 75 PSI. If the water pressure is lower than 75 PSI flowing, use a water booster system.

If the water flowing pressure is lower than 75 PSI at the plain water inlet and a water booster is NOT installed, water products will not hold a proper flow rate or water/syrup ratio. Flow conditions at the nozzle can also be affected, causing poor nozzle coning and mixing.

NOTE: The Lancer Water Booster/Tank (PN [MC-163172](#)) is offered as a kit. The water booster must be installed as close as possible to the plain water circuit inlet.

- E. For the soda water supply line, do not exceed 50 PSI for the inlet water static pressure going into the carbonator pump. If the static water pressure exceeds 50 PSI, install a water regulator before the carbonator water inlet.

NOTE: Install the water regulator (Lancer PN [18-0306](#)) included with unit as close as possible to the water carbonator pump inlet. The recommended water pressure value feeding the carbonator is a minimum of 25 PSI. If the normal water pressure does not exceed 50 PSI, but fluctuates over this value (for example, when water usage on other equipment connected to the same water supply causes pressure spikes), use a water regulator.



Do not connect to a hot water or soft water source. This causes excessive foaming.

1.7 CONNECTING CO₂

- A. Provide a regulated CO₂ supply to the dispenser through a 3/8 inch supply line. The maximum pressure is 80 PSI.



Excessive CO₂ pressure can damage components.

1.8 CONNECTING TO ELECTRICAL POWER

- A. Check the dispenser serial number plate for correct electrical requirements of unit. Do not plug into a wall electrical outlet unless the current shown on the serial number plate agrees with local current available.



The dispenser must be electrically grounded. The power cord has a three-prong grounded plug. If a three-holed grounded electrical outlet is not available, use an approved method of ensuring a proper ground to the dispenser.

1.9 INSTALLING THE FS30 DISPENSER

- A. Remove the cup rest, drip tray, splash plate, and top cover from the unit.
- B. Remove the cover plate at the back of the unit (if not a through-the-counter installation).
- C. Connect the plain water supply line and the water supply for the carbonator to the 3/8 inch barb fittings at the front of the unit.

For the plain water supply line, the inlet water flowing pressure should be at least 75 PSI. If the water pressure is lower than 75 PSI flowing, use a water booster system.

If the water flowing pressure is lower than 75 PSI at the plain water inlet, and a water booster is NOT installed, water products will not hold a proper flow rate or water/syrup ratio. Flow conditions at the nozzle can also be affected, causing poor nozzle coning and mixing.

NOTE: The Lancer Water Booster/Tank, PN [MC-163172](#), is offered as a kit. The Water Booster must be installed as close as possible to the plain water circuit inlet.

For the soda water supply line, do not exceed 50 PSI for the inlet static water pressure going into the carbonator pump. If the static water pressure exceeds 50 PSI, install a water regulator in front of the carbonator water inlet.

NOTE: Install the water regulator (Lancer PN [18-0306](#)) as close as possible to the water carbonator pump inlet.

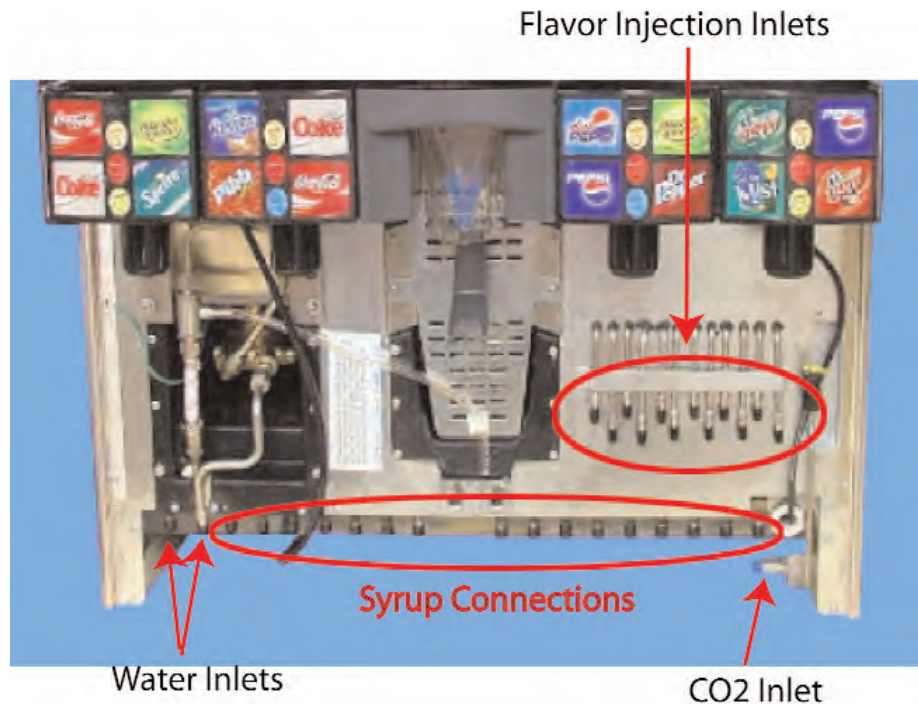
The recommended water pressure value feeding the carbonator is a minimum of 25 PSI. If the normal water pressure does not exceed 50 PSI, but fluctuates over this value (for example, when water usage on other equipment connected to the same water supply causes pressure spikes), use a water regulator.

- D. Place the CO₂ cylinder with the CO₂ regulator in a serviceable location and route the CO₂ supply line (75 PSI) to the 3/8 inch barb fitting at the front of the unit.
- E. Connect the syrup supply lines to the 3/8 inch barb inlet fittings at the front of the unit. Connect other end to BIB pumps.
- F. Connect the flavor injection lines to the barb fittings at the front of the unit.
- G. Install the drip tray and extend the hose to an open drain.
- H. Insulate drain lines with a closed cell insulation. Ensure that the insulation covers the entire length of the drain hose, including fittings. To prevent condensation from forming, install the drain so that water does not collect in sags or other low points. **NOTE:** Pouring hot water into the drain may cause the drain tube to collapse. Allow only lukewarm or cold water to enter drain tube. Pouring coffee, tea, and similar substances into the drain can cause the drain tube to become clogged.
- I. Install the cup rest and splash plate.
- J. Connect the power cord to a grounded electrical outlet.



The bin agitation system will operate automatically. Do not place hands in the bin or the ice chute.

- K. Test motor operation by pushing the ice chute.
- L. Clean and sanitize the dispenser (see section 2).
- M. Fill the dispenser half full with ice. Test ice delivery by pushing the ice chute.
- N. Fill the dispenser with ice.
- O. Install the top cover.
- P. Set the brix ratio for beverage dispensing valves according to the manufacturer's instructions.





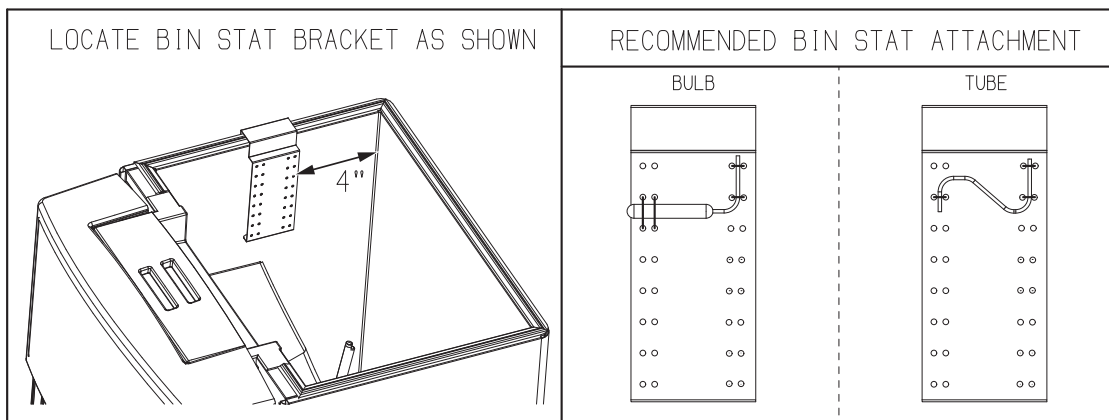
When installing an icemaker on the dispenser, use a bin thermostat to control the ice level (see below). This will prevent damage to the dispensing mechanism. The bracket for mounting a thermostat is located in the ice bin.

During the automatic agitation cycle and while dispensing ice, ensure there is adequate space between the top of the ice level and the bottom of the icemaker so the ice can move without obstruction.

Contact your icemaker manufacturer for information on a suitable bin thermostat.



Disconnect the dispenser from the power source before removing any parts from the bin. Automatic agitation can occur at any time.



2. CLEANING AND SANITIZING

2.1 GENERAL INFORMATION

Lancer equipment is shipped from the factory cleaned and sanitized in accordance with NSF guidelines. The equipment must be cleaned and sanitized after installation is complete. **The operator of the equipment must provide continuous maintenance as required by this manual and state and local health department guidelines to ensure proper operation and sanitation requirements are maintained.**

NOTE: The cleaning and sanitizing procedures provided in this manual pertain to the Lancer FS30 dispenser. If other equipment is being cleaned, follow the guidelines established for that equipment.

Cleaning and sanitizing should be performed by trained personnel only. Use sanitary gloves. Observe applicable safety precautions. Follow instruction warnings on the product.

DO NOT

Disconnect water lines when cleaning and sanitizing syrup lines, to avoid contamination.

Use strong bleaches or detergents; these can discolor and corrode various materials.

Use metal scrapers, sharp objects, steel wool, scouring pads, abrasives, or solvents on the dispenser.

Use hot water above 140 degrees F (60 degrees C). This can damage the dispenser.

2.2 CLEANING AND SANITIZING SOLUTIONS

CLEANING SOLUTION: Mix a mild, non-abrasive detergent with clean, potable water at a temperature of 90 to 110 degrees F. The mixture ratio is one ounce of cleaner to two gallons of water. Prepare a minimum of five gallons of cleaning solution. Do not use abrasive cleaners or solvents because they can cause permanent damage to the unit. Ensure rinsing is thorough, using clean, potable water at a temperature of 90 to 110 degrees F. Extended lengths of product lines may require additional cleaning solution.

SANITIZING SOLUTION: Prepare a minimum of five gallons of sanitizing solution according to manufacturer's recommendations and safety guidelines. Ensure the solution provides 50 to 100 parts per million (PPM) chlorine. Any sanitizing solution may be used as long as it is prepared as directed above. Extended lengths of product lines may require additional sanitizing solution.



WARNING!

Following sanitization, rinse with end-use product until there is no aftertaste. Do not use a fresh water rinse. This is an NSF requirement. Residual sanitizing solution left in the system creates a health hazard.

For powder sanitizers, dissolve completely with water prior to adding to the syrup system. Hot water will help dissolve powder sanitizers.

Avoid getting sanitizing solution on circuit boards.

OTHER SUPPLIES NEEDED:

- Clean cloth towels
- Bucket
- Small brush (PN [22-0017](#)) - included with installation kit.
- Extra nozzle
- Sanitary gloves

2.3 DAILY CLEANING

- A. Carefully remove the nozzle housings by turning counterclockwise and pulling down from the nozzle body.
- B. Wash the nozzle housings in cleaning solution and rinse with warm water.
- C. Wet a clean cloth in cleaning solution.
- D. While the nozzle housing is removed, wipe down the perimeter and end of the nozzle body.



- E. Fill a cup with warm water and rinse nozzle body.
- F. Make certain that the nozzle o-ring is not torn or damaged. If necessary, replace damaged o-ring with Lancer PN [02-0231](#).
- G. Wet the inner surface of the nozzle housing with water and reinstall the nozzle housing by sliding it over the nozzle body and turning clockwise to lock in position.

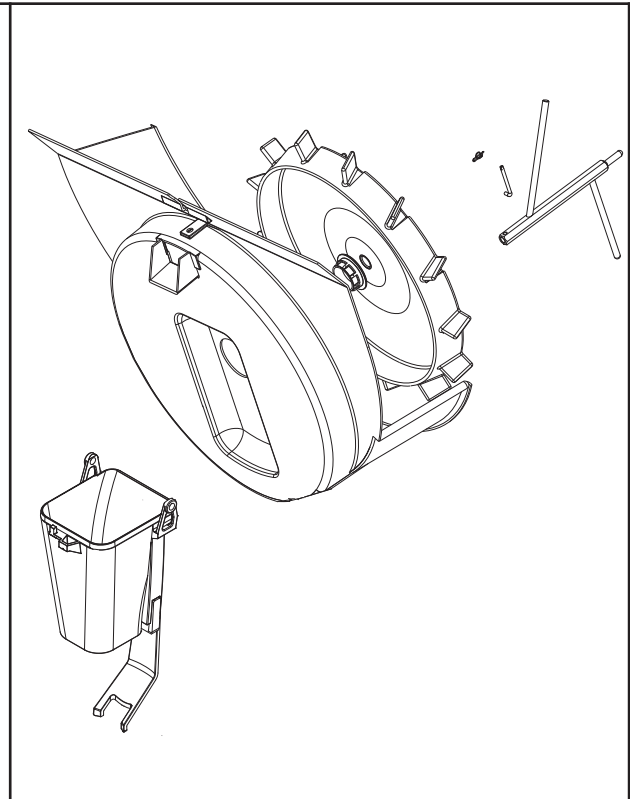
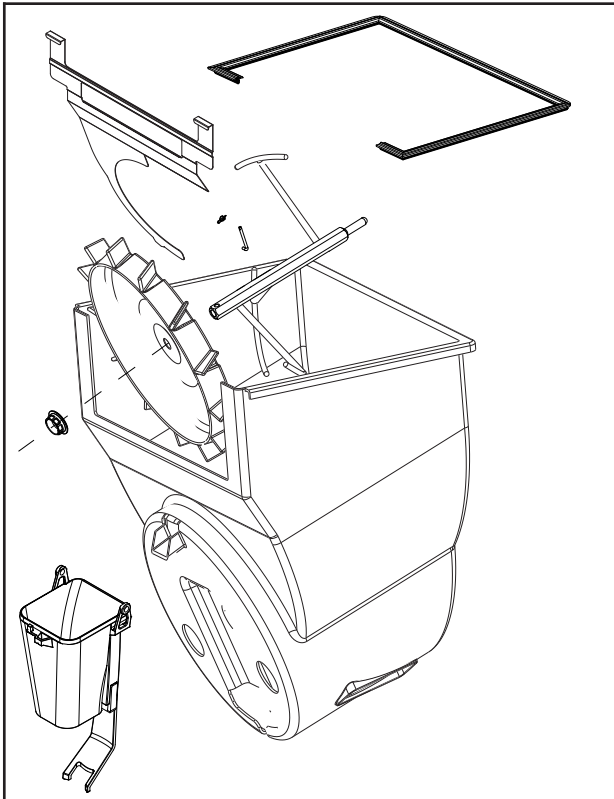
2.4 ICE BIN CLEANING - PERFORM AT STARTUP AND MONTHLY

- A. Disconnect power to the dispenser.
- B. Remove the top cover.
- C. Melt out any remaining ice from the bin.
- D. Remove the splash plate, drip tray and front and rear bin covers.
- E. Remove the agitator pin from the agitator shaft. Slide the agitator shaft rearward out of the motor shaft and pull out of the rear bearing to remove.
- F. Remove the dispensing wheel from the motor shaft by sliding rearward.

(CONTINUED ON NEXT PAGE)

G. WHITE WHEEL SHROUD (PELLET ICE)

G. BLACK WHEEL SHROUD (CUBED ICE)



Remove the gasket which secures the shroud by pulling it out.

Push the front section of the shroud back.

Pull the shroud up and out.

Remove the lower ice chute assembly.

Remove the dispensing wheel shroud.

Remove the lower ice chute assembly.

- H. Using the cleaning solution described in the “Cleaning and Sanitizing Solutions” section and a clean cloth or soft brush, clean all removable parts, sides of ice bin, ice chute and surface of aluminum casting.
- I. Using hot water, rinse the cleaning solution thoroughly.
- J. Wearing sanitary gloves, soak a clean cloth towel in sanitizing solution, described in the “Cleaning and Sanitizing Solutions” section above, and wash all surfaces of removable parts, sides of ice bin, ice chute liner, and surface of aluminum casting.
- K. Wearing sanitary gloves, reassemble all removable parts. Ensure agitator clip is locked.



- L. Fill the unit with ice and replace the top cover.
- M. Reconnect power to the dispenser.

2.5 CLEANING AND SANITIZING BEVERAGE COMPONENTS - BAG-IN-BOX SYSTEMS

NOTE: Extended lengths of product lines may require more time for flushing and rinsing lines than described below.

- A. Disconnect the syrup quick disconnect coupling from the syrup packages and connect the coupling to a bag valve removed from an empty Bag-in-Box (BIB) package.
- B. Place the syrup inlet line in a clean container filled with clean, potable, room temperature water. Activate the valve until water is dispensed. Flush and rinse the line and fittings for a minimum of sixty seconds to remove all traces of residual product.
- C. Make the sanitizing solution. Place the syrup inlet line in a container filled with sanitizing solution.
- D. Activate the valve and draw sanitizing solution through the line for a minimum of sixty seconds. This will ensure the line is flushed and filled with sanitizing solution. Allow the line to stand for at least thirty minutes.
- E. Remove the bag valve from the quick disconnect coupling and reconnect the syrup inlet line to syrup package. Ready the unit for operation.
- F. Draw drinks to refill the lines and to flush the sanitizing solution from the dispenser.

NOTE: Do not follow the sanitization procedure with a fresh water rinse. Purge only with end-use product until there is no aftertaste. **This is an NSF requirement.**

- G. Test the dispenser for proper operation. Taste the dispensed product to ensure there is no off-taste. If off-taste is found, flush the syrup system again.
- H. Repeat cleaning, rinsing, and sanitizing procedures for each valve and circuit.

2.6 ICE CHUTE CLEANING

It is recommended to perform this procedure monthly, or more often if desired. Use the cleaning solution described above. An alternate solution of one part water to one part vinegar may be used to remove water spots and calcium deposits.

- A. Turn off power to the dispenser.
- B. Remove merchandiser.
- C. Unhook the spring from the upper ice chute by pulling up and out.
- D. Remove the lower chute by carefully spreading apart the arms of the lower chute.
- E. Mix the cleaning solution. Put a portion of the solution into a spray bottle. Soak the lower chute in the remaining solution.
- F. Spray the upper chute with the cleaning solution.
- G. With a soft sponge, clean the inside of the upper and lower chutes.
- H. Rinse the lower chute thoroughly.
- I. Dry the lower chute thoroughly.
- J. Empty the cleaning solution from the spray bottle, then refill with plain water. Rinse the upper chute thoroughly.
- K. Dry the upper chute.
- L. Reinstall the lower ice chute onto the upper chute, then reinstall the spring.
- M. Reinstall merchandiser.
- N. Reconnect power to the dispenser.

3. HOW TO OPERATE AND ADJUST THE LANCER FS30

3.1 NORMAL OPERATION

- Fill cup with desired amount of ice.
- Place cup under nozzle below desired brand.
- Select up to two desired bonus flavors from those available on the keypad, by pressing against the flavor label once. Selection indicator light will illuminate.
- Press and hold brand label to fill cup.
- Top off cup as desired.

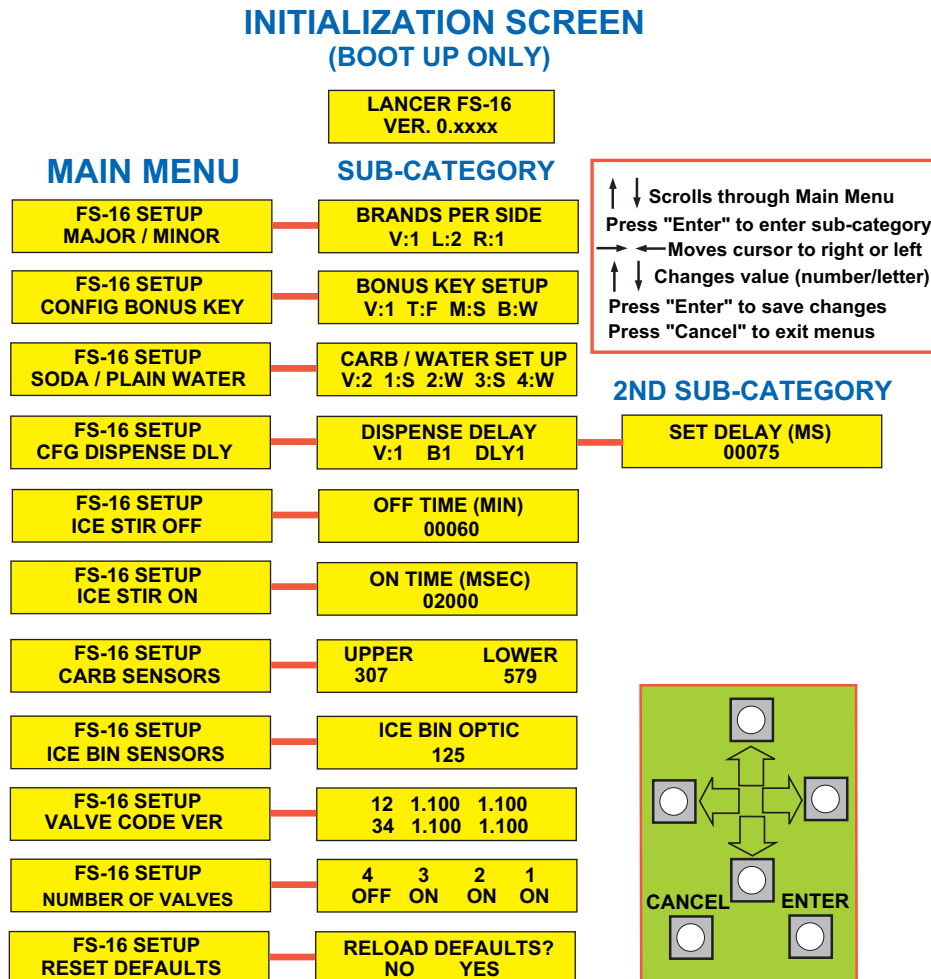
3.2 PROGRAMMING AND SETUP SOFTWARE



Lancer reserves the right to make changes and updates as required. If you have any questions regarding the latest versions of programs, please contact your Lancer representative.

The Lancer FS30 has been factory preset to the settings necessary to comply with the brand/flavor version of the dispenser requested by the customer.

Adjustments or upgrades should only be performed by trained personnel. For any upgrades, an upgrade kit may be purchased. The kit includes all of the hardware required for the upgrade, including bezels and valves.



Valves can be adjusted by scrolling through the menu (see figure above) using the UP and DOWN arrows. By pressing the ENTER button, a submenu is revealed. In the submenu, the individual valves can be adjusted to the desired configuration.

B. MENUS AND SUBMENUS



1. Bonus Flavors

- Decide if the bonus flavors will be set to add an injected flavor to the brands or dispense carbonated water/plain water.
- Choose the Valve number (1-4) by scrolling **UP** and **DOWN** arrows.
- Use the **LEFT** and **RIGHT** arrows to shift to the Top, Middle, or Bottom "bonus" flavors categories.
- Press the **UP** and **DOWN** arrows under Top, Middle, or Bottom to select it as an injected flavor, carbonated Soda water, or plain Water. (**NOTE: Water is NOT** an option for Valves 1 and 4.)
- Press **ENTER** to finalize settings. Panel lights should confirm finalized configurations.

2. Brands

- Decide how the brands will be setup.
- Choose the Valve number (1-4) by scrolling **UP** and **DOWN** arrows.
- Use the **LEFT** and **RIGHT** arrows to shift to the Left or Right categories. **The Left or Right categories are set with the assumption that you are looking at them from the front.**
- Press **UP** and **DOWN** arrows under Left (1-2) or Right (1-2) to select the brand per side as a single or double. For example, for bezel PN [05-2120](#), V:1 L:1 R:2

3. Soda/Water

- Decide which switch locations will be carbonated and/or non-carbonated drinks. (**NOTE: Only adjustable on Valves 2 and 3.**)
- Choose the Valve number (2-3) by scrolling the **UP** and **DOWN** arrows.
- Use the **LEFT** and **RIGHT** arrows to shift to the number categories (1-4). **The number categories correspond to the brand location (per valve) that is being configured.**
- Press the **UP** and **DOWN** arrows under the number to select if that brand will be carbonated Soda or non-carbonated plain Water. If a single brand per side, only number 1 and/or 3 need to be set.

4. Automatic Agitation

- Each Series 14800 ice beverage dispenser is equipped with automatic agitation for the ice bin. The unit is shipped with timing set at two seconds (2000 milliseconds) ON every 60 minutes for cubed ice. The unit is shipped with timing set at four seconds (4000 milliseconds) ON every 150 minutes for pellet ice.

3.3 PURGING THE CARBONATION SYSTEM

Purge the carbonator tank whenever carbonation issues occur.

- A. Turn off CO₂ supply.
- B. Turn off power to the dispenser. Unplug the carbonator harness from the power supply.
- C. Open the relief valve until water is coming out. Close the relief valve, checking for any remaining air in the tank.
- D. Allow the carbonator tank to fill with plain water by way of the water booster.
- E. Once the tank is full, turn the power back on and purge the system by dispensing a carbonated drink. You should only get plain water as the CO₂ is still off. Dispense several times.
- F. Turn on the CO₂ supply
- G. Turn off the power in order to reconnect the pump harness. Turn power back on.
- H. Dispense soda at valve until the carbonator pump comes on. Release the button, allow the carbonator to fill and stop (usually a few seconds). Repeat this process until the water is carbonated (about five cycles).
- I. Place dispenser back into service.

NOTE: To check for CO₂ leaks, close the valve on the CO₂ cylinder and observe if the pressure to the system drops with the cylinder valve closed for five minutes. Open the cylinder valve after check.

3.4 PURGING THE WATER AND SYRUP SYSTEMS

- A. Open a dispensing valve until water and syrup are flowing steadily from the valve. Repeat for each valve.
- B. Check all of the dispenser's syrup and water connections for leaks and repair if necessary.
- C. Replace the dispenser's splash plate and cup rest.

3.5 ADJUSTING WATER FLOW AND WATER TO SYRUP RATIO (BRIX)

The water flow can be adjusted between 3.25 oz/sec (96 ml/sec) and 4.50 oz/sec (133 ml/sec) on all dispensing valves. Ensure ice is on the cold plate for at least one hour before you brix the valves. The drink temperature should be no higher than 40°F (4.4°C) when the brix is set.

- A. Remove merchandiser assembly.
- B. If necessary, rotate switches panel forward and down by releasing the two pin latches on its sides.
- C. Rotate light panel, forward and up by releasing the two pin latches on its sides towards the top.
- D. Remove nozzle by twisting counterclockwise and pulling down.
- E. Install Lancer syrup separator (PN [82-3458](#)) in place of nozzle.
- F. Activate dispensing valve to fill separator syrup tube.
- G. Hold a Lancer brix cup under the syrup separator and dispense water and syrup into cup for four seconds. Divide number of ounces (ml) of water in cup by four to determine water flow rate per second.
- H. To obtain the proper flow, remove protective cap, and use a screwdriver to adjust water flow control.
- I. Repeat process for each water valve. There can be up to six gray water valves on the dispenser (up to four carbonated water valves and two plain water valves).

- L. Hold the Lancer brix cup under the syrup separator and activate valve. Check brix.
- M. To obtain the proper brix, use screwdriver to adjust syrup flow control.
- N. Once proper ratio is obtained, repeat to verify.
- O. Repeat for each valve.
- P. Remove syrup separator.
- Q. Install nozzle.
- R. Once all the valves have been brixed, restore switches panel and light panel to their original positions.

3.6 CARBONATOR PUMP MODIFICATIONS

The electric, positive displacement rotary vane pump with 170 PSI bypass should only be serviced by trained personnel. To achieve optimum carbonation, use filtered water with the pump.

A. Servicing

1. Turn off power to the dispenser.
2. Remove drip tray and splash plate.
3. Turn off water.
4. Turn the CO₂ off, activate the relief valve.
5. Once the pressure has been released, untighten the inlet/outlet nuts on the pump.
6. Unscrew the mounting bracket.
7. Part should easily slide out for replacement or maintenance.

NOTES

4. TROUBLESHOOTING

TROUBLE	CAUSE	REMEDY
4.1 No product when switch is activated (switch panel is not lit).	<p>A. Malfunctioning switch assembly.</p> <p>B. No power to dispenser.</p> <p>C. Malfunctioning power supply.</p> <p>D. Malfunctioning PCB board.</p>	<p>A. Replace switch assembly.</p> <p>B. Check internal breaker and incoming power.</p> <p>C. Check voltage to power supply. Check fuses.</p> <p>D. Replace PCB board.</p>
4.2 No product when switch is activated (switch panel is lit).	<p>A. Keyswitch is off or keyswitch harness is disconnected.</p> <p>B. Malfunctioning switch assembly.</p> <p>C. Malfunctioning LFCV module.</p>	<p>A. Turn keyswitch on and/or reconnect keyswitch harness.</p> <p>B. Replace switch assembly.</p> <p>C. Replace module.</p>
4.3 Push chute and nothing happens.	<p>A. Dispenser not connected to power source.</p> <p>B. Microswitch defective.</p> <p>C. Wiring harness not plugged in.</p> <p>D. PC board defective.</p> <p>E. Malfunctioning power supply.</p>	<p>A. Connect dispenser to power source.</p> <p>B. Replace microswitch.</p> <p>C. Plug in wiring harness.</p> <p>D. Replace PC board.</p> <p>E. Check voltage to power supply. Check fuses.</p>
4.4 Push chute. Ice door opens but motor does not run.	<p>A. Wiring harness not plugged in.</p> <p>B. PC board defective.</p> <p>C. Motor defective.</p>	<p>A. Plug in wiring harness.</p> <p>B. Replace PC board.</p> <p>C. Replace motor.</p>
4.5 Push chute. Motor runs but ice door does not open.	<p>A. Solenoid not connected to PC board.</p> <p>B. Solenoid defective.</p> <p>C. PC board defective.</p>	<p>A. Connect solenoid to PC board.</p> <p>B. Replace solenoid.</p> <p>C. Replace PC board.</p>

CONTINUED ON NEXT PAGE

TROUBLE	CAUSE	REMEDY
4.6 Push chute, ice door opens, motor runs, but no ice dispenses, or ice is of poor quality.	A. Dispenser is out of ice. B. Agitator pin is missing or damaged. C. Poor ice quality.	A. Fill dispenser with ice. B. Replace agitator pin. C. Service ice machine.
4.7 Water in ice bin.	A. Coldplate drain is obstructed.	A. Remove splash plate to obtain access to drain tubes and clear accordingly.
4.8 Water leakage around nozzle.	A. Damaged or improperly installed o-ring on nozzle.	A. If damaged, replace. If improperly installed, adjust.
4.9 Miscellaneous leakage.	A. Gap between parts. B. Damaged or improperly installed o-rings.	A. Tighten appropriate retaining screws. B. Replace or adjust appropriate o-rings.
4.10 Noisy/cavitating carbonator pump.	A. Insufficient incoming water supply pressure.	A. Verify incoming supply water pressure to carbonator pump is a minimum of 25 PSI, maximum of 50 PSI.
4.11 Insufficient soda flow (carbonated drinks).	A. Insufficient CO ₂ supply pressure. B. Shutoff on mounting block is not fully open. C. Foreign debris in soda flow control. D. Defective LFCV module.	A. Verify incoming CO ₂ pressure is between 70-75 PSI. B. Open shutoff fully. C. Remove soda flow control from valve and clean out any foreign material to ensure smooth spool movement. D. Replace module.
4.12 Insufficient water flow (plain water drinks). CONTINUED ON NEXT PAGE	A. Insufficient incoming supply pressure. B. Shutoff on mounting block not fully open. C. Foreign debris in water flow control.	A. Verify incoming supply water pressure to plain water inlet is a minimum of 75 PSI, maximum of 125 PSI. B. Open shutoff fully. C. Remove water flow control from valve and clean out any foreign material to ensure smooth spool movement.

CONTINUED ON NEXT PAGE

TROUBLE	CAUSE	REMEDY
<p>4.12 Insufficient water flow (plain water drinks). CONTINUED</p>	<p>D. Water filtration problem.</p> <p>E. Defective LFCV module.</p>	<p>D. Service water system as required.</p> <p>E. Replace module.</p>
<p>4.13 Insufficient syrup flow.</p>	<p>A. Insufficient CO₂ pressure to BIB pumps.</p> <p>B. Shutoff on mounting block not fully open.</p> <p>C. Foreign debris in syrup flow control.</p> <p>D. Defective BIB pump.</p> <p>E. Defective LFCV module.</p>	<p>A. Adjust CO₂ pressure to BIB pumps to 80 PSI (minimum 70 PSI). Do not exceed manufacturer's recommendations.</p> <p>B. Open shutoff fully.</p> <p>C. Remove syrup flow control from valve and clean out any foreign material to ensure smooth spool movement.</p> <p>D. Replace pump.</p> <p>E. Replace module.</p>
<p>4.14 Erratic ratio.</p>	<p>A. Incoming water and/or syrup supply not at minimum flowing pressure.</p> <p>B. Foreign debris in water and/or syrup flow control.</p> <p>C. CO₂ regulator malfunction.</p>	<p>A. Check pressure and adjust.</p> <p>B. Remove flow control from suspected valve and clean out any foreign material to ensure smooth spool movement.</p> <p>C. Repair or replace CO₂ regulator.</p>
<p>4.15 Water only dispensed, no syrup. Or syrup only dispensed, no water. CONTINUED ON NEXT PAGE</p>	<p>A. Syrup BIB empty.</p> <p>B. Water or syrup shutoff on mounting block not fully open.</p> <p>C. Improper or inadequate water or syrup supply.</p> <p>D. CO₂ pressure to syrup pump too low.</p>	<p>A. Replace syrup BIB as required.</p> <p>B. Open shutoff completely.</p> <p>C. Remove valve from mounting block and open shutoffs slightly. Check water and syrup supply. If no supply, check dispenser for other problems. Ensure BIB connection is engaged.</p> <p>D. Check the CO₂ pressure to the pump to ensure it is between 70-80 PSI.</p>

CONTINUED ON NEXT PAGE

TROUBLE	CAUSE	REMEDY
<p>4.15 Water only dispensed, no syrup. Or syrup only dispensed, no water. CONTINUED</p>	<p>E. Stalled or inoperative BIB pump.</p> <p>F. Kinked line.</p> <p>G. CO₂ regulator malfunction.</p> <p>H. Defective LFCV module.</p>	<p>E. Check CO₂ pressure and/or replace pump.</p> <p>F. Remove kink or replace line.</p> <p>G. Repair or replace CO₂ regulator as required.</p> <p>H. Replace module.</p>
<p>4.16 Valve will not shut off.</p>	<p>A. Debris in solenoid seat.</p> <p>B. Solenoid plunger sticking.</p>	<p>A. Activate valve a few times to free debris. Remove the solenoid coil and plunger. Clean out any foreign material.</p> <p>B. Replace solenoid coil.</p>
<p>4.17 Syrup only dispensed. No water, but CO₂ gas dispensed with syrup.</p>	<p>A. Improper water flow to dispenser.</p> <p>B. Carbonator pump motor has timed out (a message will be displayed on the LCD screen).</p> <p>C. Liquid level probe not connected properly to PCB.</p> <p>D. Defective PCB assembly.</p> <p>E. Defective liquid level probe.</p> <p>F. Weak or defective carbonator pump.</p>	<p>A. Check for water flow to dispenser.</p> <p>B. Reset by turning the unit OFF and then ON by using the circuit breaker on the power supply or momentarily unplugging unit.</p> <p>C. Check connections of liquid level probe to PCB assembly.</p> <p>D. Replace PCB assembly.</p> <p>E. Replace liquid level probe.</p> <p>F. Replace pump.</p>
<p>4.18 Excessive foaming.</p>	<p>A. No ice in bin.</p> <p>B. Incoming water or syrup temperature too high.</p> <p>C. CO₂ pressure too high.</p> <p>D. Water flow rate too high.</p> <p>E. Nozzle and diffuser not clean.</p> <p>F. Air in BIB lines.</p>	<p>A. Fill bin with ice and allow coldplate to re-stabilize.</p> <p>B. Correct prior to dispenser.</p> <p>C. Adjust CO₂ pressure downward, but not less than 70 PSI.</p> <p>D. Re-adjust and reset ratio.</p> <p>E. Remove and clean.</p> <p>F. Bleed air from BIB lines.</p>

CONTINUED ON NEXT PAGE

TROUBLE	CAUSE	REMEDY
4.19 Water continually leaking at connections.	<p>A. Loose water connections.</p> <p>B. Flare seal washer leaks.</p>	<p>A. Tighten water connections.</p> <p>B. Replace flare seal washer.</p>
4.20 Circuit breaker tripping.	<p>A. Valve wire harness shorted to itself or faucet plate.</p> <p>B. Controller PCB is bad.</p> <p>C. Secondary wire harness is shorted.</p> <p>D. power supply is bad.</p>	<p>A. Detect short by disconnecting valve harnesses from switch panel (4 25-pin harnesses and 4 9-pin harnesses). Restore power. If breaker does not trip, find and replace shorted harness. If breaker trips, re-install the 8 harnesses, and proceed to step B.</p> <p>B. Detect by disconnecting the white 5-pin harness from the controller PCB. Restore power. If breaker does not trip, replace controller PCB. If breaker trips, re-install the white 5-in harness and proceed to step C.</p> <p>C. Locate short from a motor or solenoid harness and replace.</p> <p>D. Detect short by disconnecting all harnesses connected to power supply. Restore power. If breaker still trips, replace power supply.</p>
4.21 BIB pump does not operate when dispensing valve is opened.	<p>A. Out of CO₂, CO₂ not turned on, or low CO₂ pressure.</p> <p>B. Out of syrup.</p> <p>C. BIB connector not tight.</p> <p>D. Kinks in syrup or gas lines.</p>	<p>A. Replace CO₂ supply, turn on CO₂ supply, or adjust CO₂ pressure to 70-80 PSI.</p> <p>B. Replace syrup supply.</p> <p>C. Fasten connector tightly.</p> <p>D. Straighten or replace lines.</p>
4.22 BIB pump operating, but no flow.	<p>A. Leak in syrup inlet or outlet line.</p> <p>B. Defective BIB pump.</p>	<p>A. Replace line.</p> <p>B. Replace BIB pump.</p>

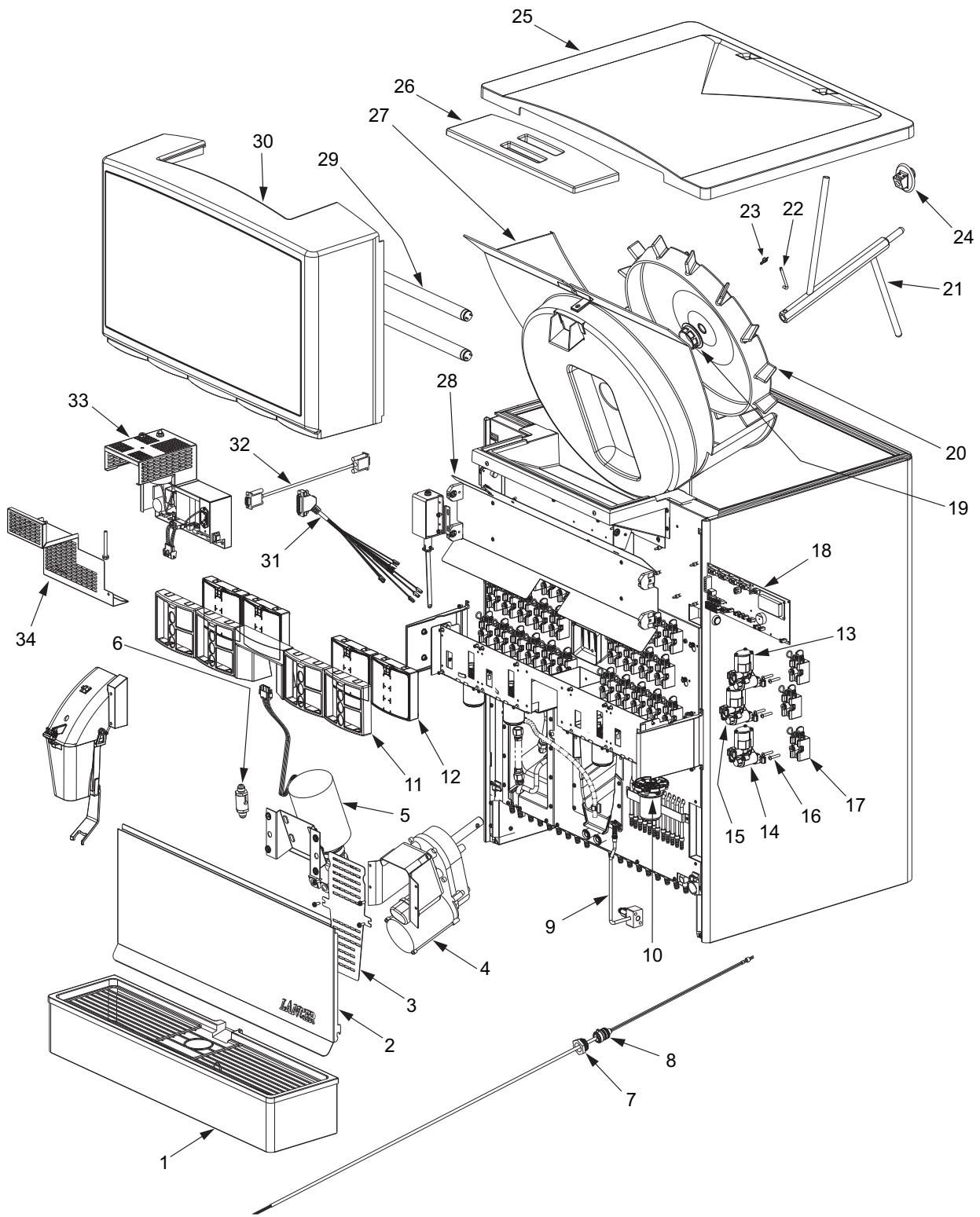
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TROUBLE	CAUSE	REMEDY
<p>4.23 BIB pump continues to operate when bag is empty.</p>	<p>A. Leak in suction line.</p> <p>B. Leaking o-ring on pump inlet fitting.</p> <p>C. Defective syrup BIB pump.</p>	<p>A. Replace line.</p> <p>B. Replace o-ring</p> <p>C. Replace defective pump.</p>
<p>4.24 BIB pump fails to restart after bag replacement.</p>	<p>A. BIB connector not on tightly.</p> <p>B. BIB connector is stopped up.</p> <p>C. Kinks in syrup line.</p>	<p>A. Tighten BIB connector.</p> <p>B. Clean out or replace BIB connector.</p> <p>C. Straighten or replace line.</p>
<p>4.25 BIB pump fails to stop when dispensing valve is closed.</p>	<p>A. Leak in discharge line or fittings.</p> <p>B. Empty BIB.</p> <p>C. Air leak on inlet line or bag connector.</p>	<p>A. Repair or replace discharge line.</p> <p>B. Replace BIB.</p> <p>C. Repair or replace.</p>
<p>4.26 Low or no carbonation.</p>	<p>A. Low or no CO₂.</p> <p>B. Low water pressure.</p> <p>C. Worn or defective carbonator pump.</p> <p>D. Backflow preventer not allowing water to flow.</p> <p>E. Probe malfunctioning.</p> <p>F. PCB malfunctioning.</p>	<p>A. Check CO₂ supply. Adjust CO₂ pressure to 70 PSI.</p> <p>B. Need water booster kit.</p> <p>C. Replace carbonator pump.</p> <p>D. Replace backflow preventer, noting the flow direction arrow from pump to coldplate.</p> <p>E. Replace probe.</p> <p>F. Replace PCB.</p>

END OF TROUBLESHOOTING

5. ILLUSTRATIONS AND PARTS LISTINGS

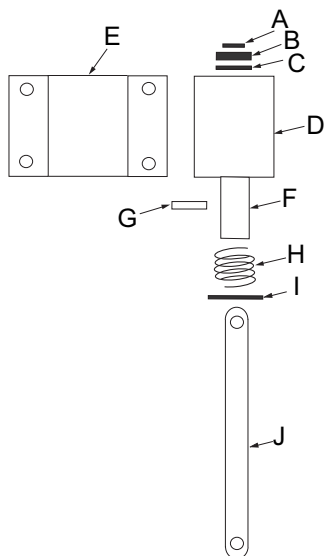
5.1 FINAL ASSEMBLY



5.1 FINAL ASSEMBLY - PARTS LIST

Item	Part No.	Description
-	85-14808-12	IBD, Above Counter Multi Brand Series 14800, 115V/60Hz, 8 brands / 12 flavors
-	85-14810-12	IBD, Above Counter Multi Brand Series 14800, 115V/60Hz, 10 brands / 12 flavors
-	85-14812-12	IBD, Above Counter Multi Brand Series 14800, 115V/60Hz, 12 brands / 12 flavors
-	85-14814-12	IBD, Above Counter Multi Brand Series 14800, 115V/60Hz, 14 brands / 12 flavors
-	85-14816-12	IBD, Above Counter Multi Brand Series 14800, 115V/60Hz, 16 brands / 12 flavors
-	85-14808N-12	IBD, Above Counter Multi Brand Series 14800, 115V/60Hz, 8 brands / 12 flavors, Pellet
-	85-14810N-12	IBD, Above Counter Multi Brand Series 14800, 115V/60Hz, 10 brands / 12 flavors, Pellet
-	85-14812N-12	IBD, Above Counter Multi Brand Series 14800, 115V/60Hz, 12 brands / 12 flavors, Pellet
-	85-14814N-12	IBD, Above Counter Multi Brand Series 14800, 115V/60Hz, 14 brands / 12 flavors, Pellet

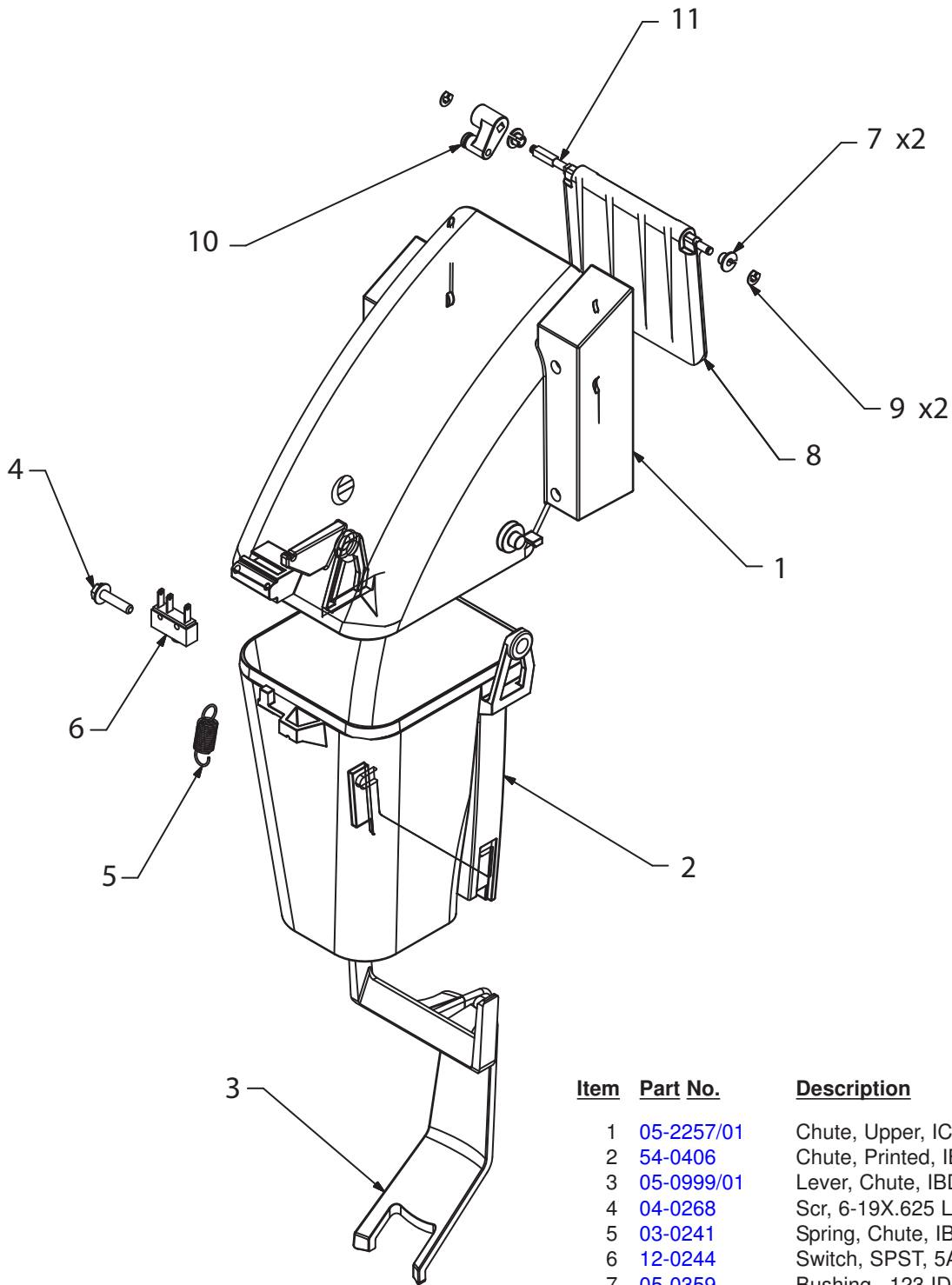
Item	Part No.	Description	Item	Part No.	Description
-	85-14816N-12	IBD, Above Counter Multi Brand Series 14800, 115V/60Hz, 16 brands / 12 flavors, Pellet	13	82-3820	Valve Assy, LFCV, 0.2, Syrup Injection, Natural
1	82-3921	Drip Tray Assy	14	82-3824	Valve Assy, LFCV, 4.5, Soda/Water, Gray
2	30-8364/01	Splash Plate	15	82-3823	Valve Assy, LFCV, 4.5, Syrup, Black
3	30-6147	Cover, Motor, IBD	16	04-1089	Screw, 10 - 32 x 1.000, RH, PH/SL
4	82-3688	Motor Assy	17	82-2317/01	Block Mounting Assy, SGL
-	91-0165/01	Motor, Agitator, IBD	18	52-2682/03	PCB Assy, Main, MB-LFCV
5	82-3196	Motor Assy, Carbonator	19	02-0406/01	Seal, Shaft, Motor, IBD
-	86-0084-SP	Pump Assy	20	82-3556	Dispensing Wheel, HEX, IBD
-	91-0063	Motor, Carbonator	21	23-1373	Agitator Assy, HEX
6	17-0611	Check Valve, Vented, 5/8 x 1/8	22	10-0762	Pin, Agitator, 1/4", PASS
7	01-2214	Nut, Swivel, Probe, Carb	23	03-0368	Retainer, RUE-14-S
8	52-2751/02	Body, Probe, Sub Assy, Carb,	24	05-1555	Bearing, Agitator, Rear, IBD
9	82-3370/02	CO2 Assy, Inlet/P-OFF	25	05-1606	Lid, Back, IBD30, Round
-	54-0066	Relief Valve Assy	26	05-1476/01	Lid, Front, IBD, Round
10	54-0289	Nozzle Assy, Multi-Flavor, STHL	27	05-1310/02	Shroud, Dispensing Wheel, Modified
-	05-1855/01	Nozzle, Multiflavor	28	82-3490/01	Reflector Assy, MAG
-	02-0231	O-ring	-	12-0104/01	Indicator, LED Panel Mount
11	05-2120	Bezel, Multi-Brand, 1L/2R	-	52-2895/01	Ballast Assy, Reflector
-	05-2121	Bezel, Multi-Brand, 2L/1R	29	12-0503	Bulb, Fluorescent, 26", T8, CW
-	05-2122	Bezel, Multi-Brand, 1L/1R	30	82-3705	Merchandiser Assy, FS - No graphic
-	05-2058	Bezel, Multi-Brand, 2L/2R	31	52-2985	Harness, Valve, 25-PIN
12	82-3286/02	Switch Assy, MB, 2L/2R	32	52-2692/01	Harness, Control-to-Valve, 9-PIN
			33	82-3284	Power Supply
			34	30-8871/02	Cover, power Supply



ICE DOOR SOLENOID ASSEMBLY (AT LEFT):

A	03-0086	Ring, Retaining (5304-18)
B	04-0328	Washer, Rubber
C	04-0327	Washer, Flat
D	12-0195	Solenoid, D-90
E	30-5165	Bracket, Solenoid
F	23-1380	Plunger Assy
G	10-0496	Pin, Solenoid Assy
H	03-0110	Spring, Solenoid
I	03-0111	Ring, Retaining (5133-62)
J	30-8356	Linkage, Door, FS

5.2 ICE CHUTE ASSEMBLY



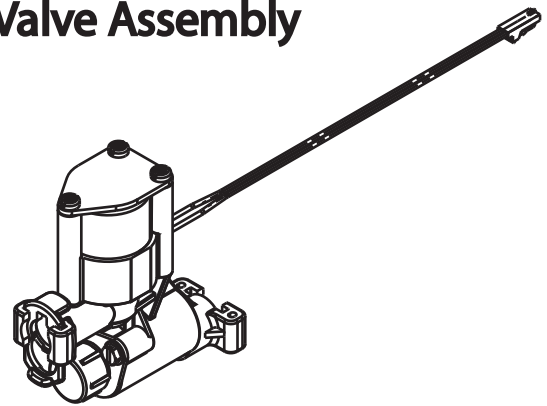
<u>Item</u>	<u>Part No.</u>	<u>Description</u>
1	05-2257/01	Chute, Upper, IC
2	54-0406	Chute, Printed, IBD
3	05-0999/01	Lever, Chute, IBD
4	04-0268	Scr, 6-19X.625 LG, PLSTI,HHSW/W
5	03-0241	Spring, Chute, IBD
6	12-0244	Switch, SPST, 5A, 250V, MDM
7	05-0359	Bushing, .123 ID x .187 OD, NYLN
8	05-0928/02	Trap Door, IBD
9	03-0113	Ring, Retaining
10	05-0546	Lever, Door
11	10-0732	Shaft, Ice Chute Door, IC

5.3 LANCER FLOW CONTROL VALVE (LFCV)

LFCV Valve Assemblies

- 82-3820 LFCV, Bonus Injector
- 82-3823 LFCV, 3.0 - 4.5, Syrup Assy
- 82-3824 LFCV, 3.0 - 4.5, Soda/Water Assy

Valve Assembly



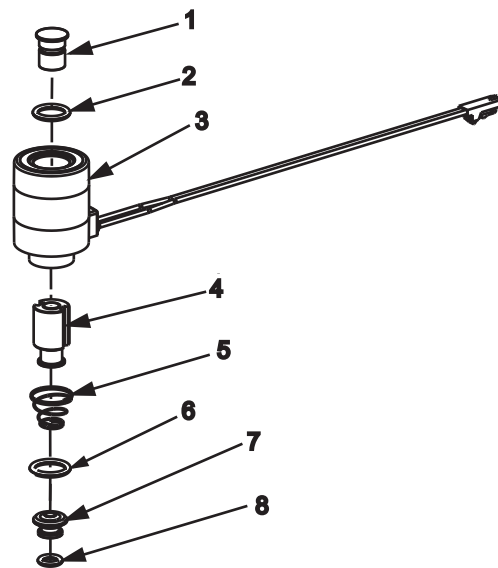
LFCV Spare Parts

- 1 10-0430/05 Plug Nut
- 2 02-0538 O-Ring
- 3 12-0364/04-01 Coil, LFCV
- 4 23-1301/01 Core Seal Assy
- 5 03-0180/02 Spring, Core
- 6 02-0109 O-Ring
- 7 05-1745/02 Seat, LFCV
- 8 02-0133 O-Ring

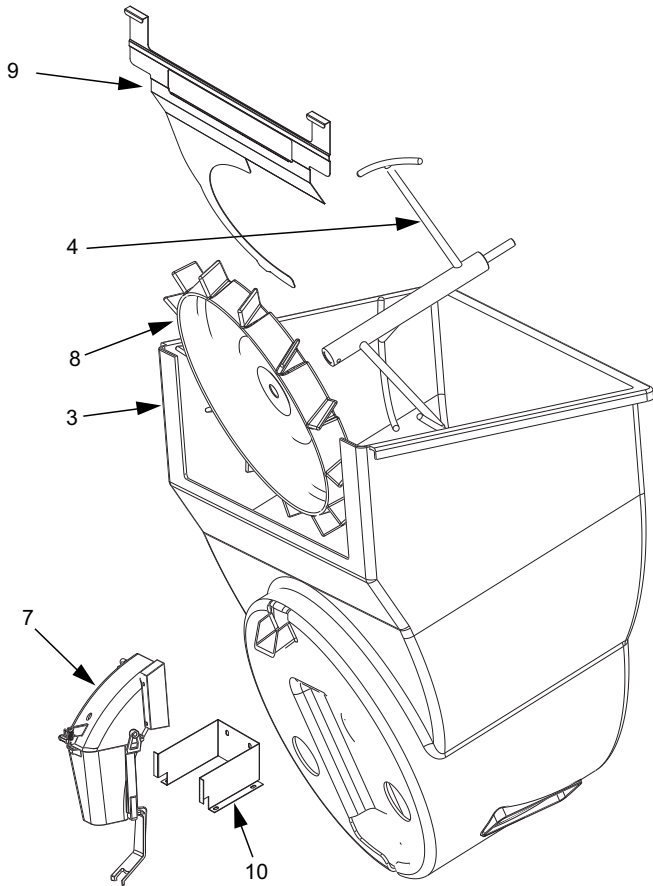
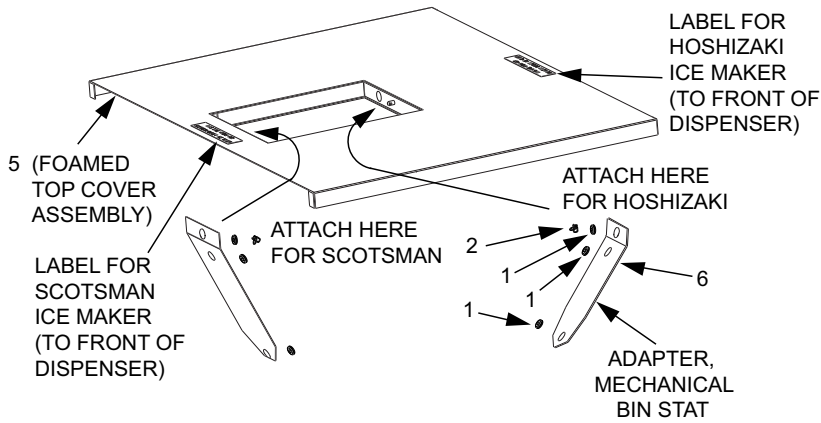
LFCV Kit

- 82-4020 LFCV Rebuild Kit

Spare Parts

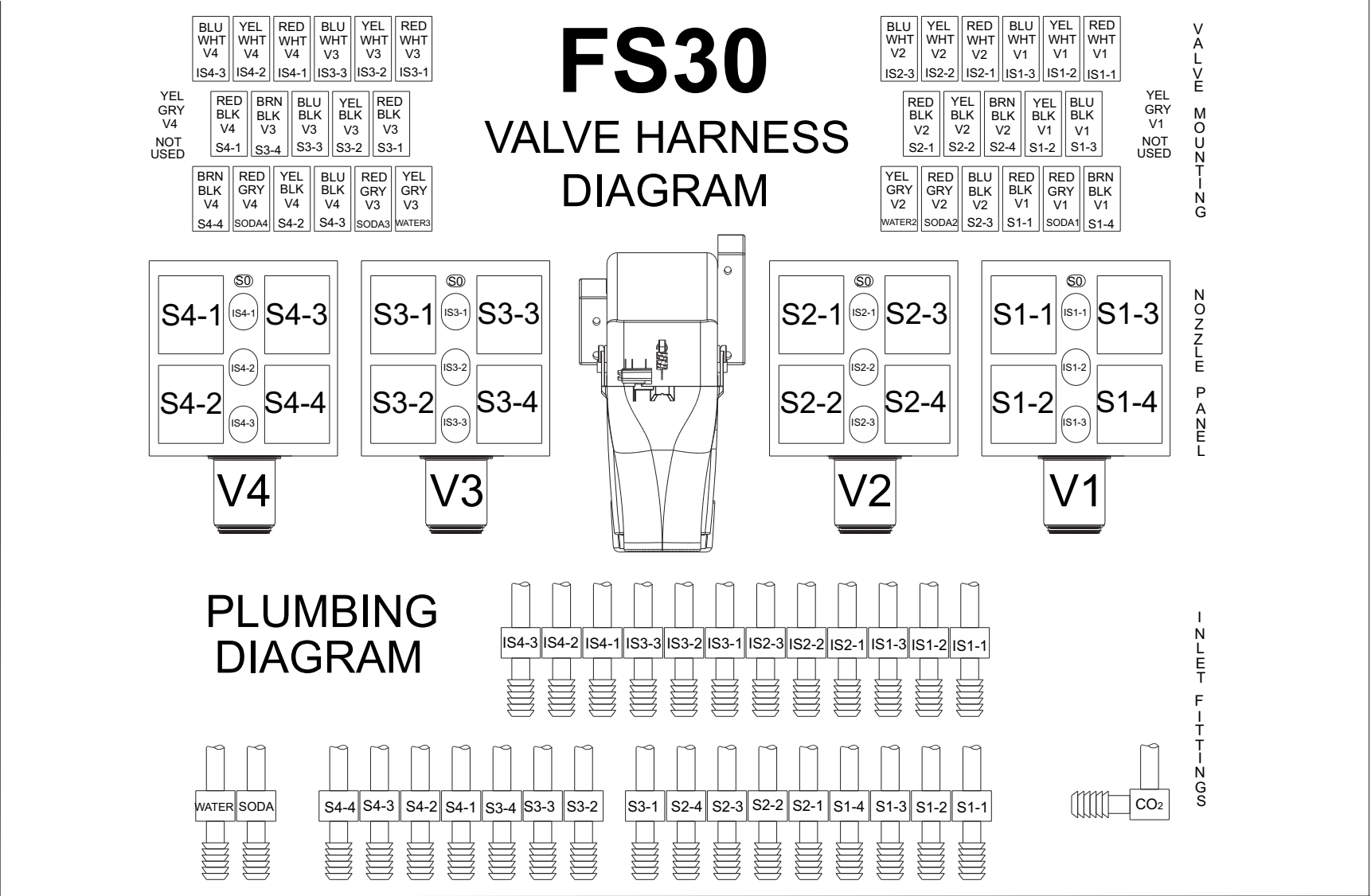


5.4 PELLET ICE ASSEMBLY AND PARTS LISTING



Use the components listed on this page with pellet ice only.

<u>Item</u>	<u>Part No.</u>	<u>Description</u>
1	02-0577	Grommet, Rubber, G3002 (quantity: 3)
2	03-0368	Retainer, Pin, Agitator, IBD
3	05-2293/02	Ice Shroud, IC
4	23-1401/01	Agitator Assy, Helical, IC, HEX
5	42-0109	Foamed Cover, Scots/Hoshi, Pellet Ice
6	30-9446	Adapter, Mech Bin-Stat, Scots
7	82-3538	Ice Chute Assy, IBD30, Pellet Ice
8	82-3651	Dispensing Wheel Assy, Pellet Ice, HEX
9	30-9880/01	Shield, Ice, One Piece with Tab
10	30-8832/01	Bracket, Valve Plate, FS30



NOTES



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To order parts, call

Customer Service: 800-729-1500

Warranty/Technical Support: 800-729-1550

Email: custserv@lancercorp.com

www.lancercorp.com