

LANCER®

ICE BEVERAGE DISPENSERS, IBD 25 SERIES 4500

Operation Manual

PN: 28-0417/02



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Model Number

Manual PN: 28-0417/02

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FOR QUALIFIED INSTALLER ONLY

ABOUT THIS MANUAL

This booklet is an integral and essential part of the product and should be handed over to the operator after the installation and preserved for any further consultation that may be necessary. Please read carefully the guidelines and warnings contained herein as they are intended to provide the user with essential information for the continued safe use and maintenance of the product. In addition, it provides GUIDANCE ONLY to the user on the correct services and site location of the unit.

The installation and relocation, if necessary, of this product must be carried out by qualified personnel with up-to-date safety and hygiene knowledge and practical experience, in accordance with current regulations.

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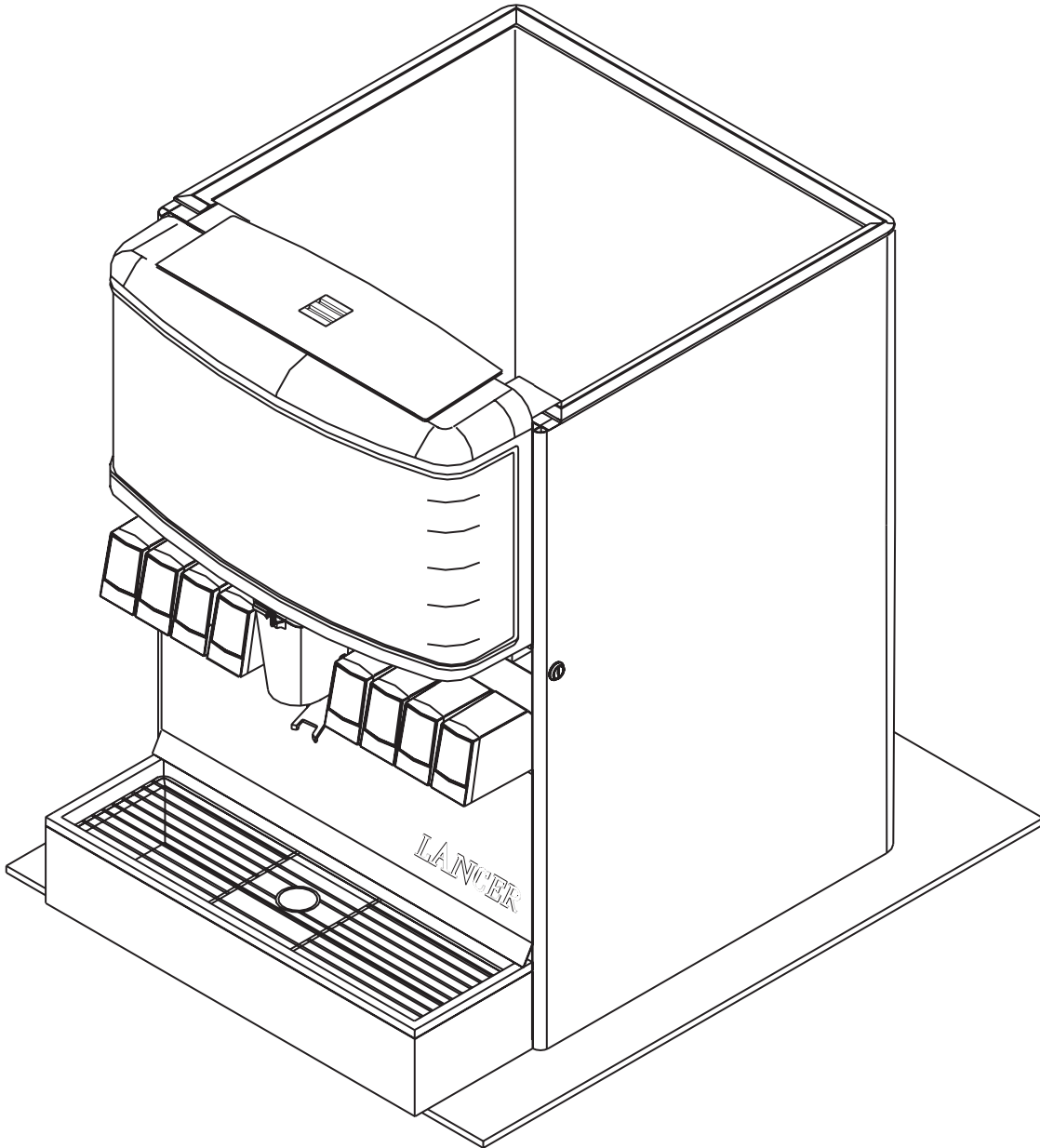
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IBD - 25" SPECIFICATIONS



| | | |
|---|---|--|
| <p>DIMENSIONS Width: 25 in (635 mm) Depth: 30.5 in (774.7 mm) Height: 34 in (863.6 mm)</p> <p>SPACE REQUIRED Left Side: 6 in (152.4 mm) Right side: 6 in (152.4 mm)</p> <p>ELECTRICAL 115V/60Hz/3.6 amps 230V/50-60Hz/1.8 amps</p> | <p>WEIGHT Shipping: 285 lbs (129.3 kg) Empty: 250 lbs (113.4 kg)</p> <p>ICE Capacity: 210 lbs (95.2 kg) Dispensable: 170 lbs (77.1 kg)</p> <p>FITTINGS Soda water inlet: 3/8" barb Brand syrup inlets: 3/8" barb</p> | <p>PLAIN WATER SUPPLY Min flowing pressure: 25 PSI (0.172 MPA) Max flowing pressure: 50 PSI (0.345 MPA)</p> <p>CARBON DIOXIDE (CO₂) Min pressure: 60 PSIG (0.413 MPA) Max pressure: 80 PSIG (0.552 MPA)</p> |
|---|---|--|

LANCER IBD SERIES 4500

85-4528H ICE BEVERAGE DISPENSER, 25 INCH WIDE, 8V, 115V/60Hz

85-4538H ICE BEVERAGE DISPENSER, 25 INCH WIDE, 8V, 230V/50-60Hz

85-4425H ICE DISPENSER, 25 INCH WIDE, 115V/60Hz

85-4435H ICE DISPENSER, 25 INCH WIDE, 230V/50-60Hz

PRE-INSTALLATION CHECKLIST

| TOOLS REQUIRED | |
|---|---|
| <input type="checkbox"/> Oetiker Pliers | <input type="checkbox"/> Slotted Screwdriver |
| <input type="checkbox"/> Tubing Cutters | <input type="checkbox"/> Phillips Screwdriver |
| <input type="checkbox"/> Wrench | <input type="checkbox"/> Cordless Drill |

| ACCESSORIES | |
|--|--|
| <input type="checkbox"/> CO2 Regulator Set | <input type="checkbox"/> CO2 Supply |
| <input type="checkbox"/> Beverage Tubing | <input type="checkbox"/> Oetiker Clamps/Fittings |
| <input type="checkbox"/> Water Booster | <input type="checkbox"/> Water Regulator |

| BIB SYSTEM | |
|--|--|
| <input type="checkbox"/> BIB Rack | <input type="checkbox"/> BIB Regulator Set |
| <input type="checkbox"/> BIB Syrup Boxes | |
| <input type="checkbox"/> BIB Connectors - ensure you have the correct connectors for syrup lineup. | |

| CONSIDER LOCATION OF THE FOLLOWING PRIOR TO INSTALL | |
|---|---|
| <input type="checkbox"/> Water supply lines | <input type="checkbox"/> Drain |
| <input type="checkbox"/> Is the countertop level? | <input type="checkbox"/> Heating and air conditioning ducts |
| <input type="checkbox"/> Grounded electrical outlet. | |
| <input type="checkbox"/> Enough space to install the dispenser. Include space for a top-mounted ice machine, if necessary. | |
| <input type="checkbox"/> Does the top-mounted ice machine have a minimum clearance on all sides? | |
| <input type="checkbox"/> Located away from direct sunlight or overhead lighting. | |
| <input type="checkbox"/> 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. | |
| <input type="checkbox"/> This unit is not suitable for use in an area where a water jet could be used. | |



WARNING/ADVERTENCIA/AVERTISSEMENT



⚠ The dispenser is for indoor use only. This unit is not a toy. Children should not be supervised not to play with appliance. It should not be used by children or infirm persons without supervision. This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Cleaning and user maintenance shall not be performed by children without supervision. This unit is not designed to dispense dairy products. The min/max ambient operating temperature for the dispenser is 40°F to 105°F (4.4°C to 40.5°C). Do not operate unit below minimum ambient operation conditions. Should freezing occur, cease operation of the unit and contact authorized service technician. Service, cleaning and sanitizing should be accomplished only by trained personnel. Applicable safety precautions must be observed. Instruction warnings on the product being used must be followed.

⚠ El dispensador sólo debe usarse en interiores. Esta unidad no es un juguete. Los niños deben ser supervisados para no jugar con aparato. No la deben usar niños ni personas discapacitadas sin supervisión. Esta unidad no está destinada al uso por parte de personas (incluso niños) con capacidad física, sensorial o mental reducida, o sin experiencia y conocimientos suficientes, a menos que una persona responsable de su seguridad les haya dado supervisión o capacitación en el uso de la unidad. Limpieza y mantenimiento de usuario no deberá ser realizada por los niños sin supervisión. Esta unidad no ha sido diseñada para suministrar productos lácteos. La temperatura ambiente operativa mínima / máxima para el dispensador es de 40°F a 105°F (4.4°C a 40.5°C). No opere la unidad debajo de las condiciones de funcionamiento ambientales mínimos. En caso de congelación se produce, cesar la operación de la unidad y el contacto técnico de servicio autorizado. Servicio de limpieza y desinfección deben llevarse a cabo solamente por personal capacitado. Es necesario tomar medidas de seguridad aplicables. Advertencias de las instrucciones sobre el producto utilizado se deben seguir.

⚠ Le distributeur est destiné à un usage à l'intérieur seulement. Cet appareil n'est pas un jouet. Les enfants doivent être surveillés afin de ne pas jouer avec l'appareil. Il ne devrait pas être utilisé par des enfants ou des personnes infirmes sans surveillance. Cet appareil n'est pas destiné à un usage par des personnes (y compris les enfants) ayant des capacités physiques, sensorielles ou mentales réduites, ou manquant d'expérience et de connaissances, à moins qu'elles obtiennent de la surveillance ou des instructions au sujet de l'utilisation de l'appareil de la part d'une personne chargée de leur sécurité. Nettoyage et entretien de l'utilisateur ne doivent pas être effectués par des enfants sans surveillance. Cet appareil n'est pas conçu pour distribuer des produits laitiers. La température de service ambiante minimum/maximum pour le distributeur est de 40°F à 105°F (4.4°C à 40.5°C). Ne pas utiliser l'appareil dans des conditions de performance environnementale minimale. En cas de gel, cesser l'exploitation de l'unité et contactez un technicien agréé. Nettoyage et désinfection doivent être effectuées uniquement par du personnel qualifié. Vous devez prendre des mesures de sécurité. Avertissements instructions sur le produit utilisé doivent être respectées.



DISPENSER INSTALLATION HIGHLIGHTS



This unit has been factory sanitized per Lancer specifications.

Listed below are six critical elements which will aid in a successful installation.

1. If this dispenser is installed in an area that is susceptible to $\pm 10\%$ variation of the nominal line voltage, consider installing a surge protector or similar protection device.
2. The unit is equipped with a protective timer for the carbonator pump motor, set for three (3) minutes. If the carbonator motor has timed out, it must be manually reset by either momentarily unplugging the unit or switching off the ON/OFF switch (if present). Once power is restored, the five (5) minute compressor delay would be in effect.
3. Supply Water Pressure: Minimum - 25 PSI (0.172 MPA); Maximum - 50 PSI (0.345 MPA); If pressure is over 50 PSIG, a water pressure regulator must be used.
4. CO2 Pressure: Recommend nominal pressure 70 PSIG (0.483 MPA). Pressure may be reduced to a minimum of 60 PSIG (0.413 MPA) if remote syrup pumps are being used. It may be increased to a maximum of 80 PSIG (0.552 MPA) only when internal syrup pumps are being used with highly viscous syrups. Important: Internal syrup pumps may not work at pressures less than 60 PSIG (0.413 MPA). CO2 pressure over 80 PSIG (0.552 MPA) may result in damage or leakage from the syrup pump system or may cause excessive foam in the drink.
5. Valve Adjustment: Make sure drink temperature is below 40°F (4.4°C) before adjusting brix.



PUNTOS IMPORTANTES EN LA UNIDAD DISPENSADORA



Esta unidad ha sido saneada en fabrica por las especificaciones de Lancer.

A continuacion se relacionan 6 puntos importantes para una correcta instalacion.

1. Si la unidad va a ser instalada en un area en la que puedan darse variaciones de voltage de + 6 - 10% de su valor nominal, se debe considerar la conveniencia de instalar un estabilizador de corriente o sistema de proteccion similar.
2. La unidad esta provista de un protector de tiempo para el motor de la bomba del carbonatador, regulado en 3 minutos. Si el motor del carbonatador se desajustara, se debe restablecer manualmente, bien desconectando electricamente la unidad o desconectando el interrupter on/off (si lo tiene). Una vez se restablezca la corriente, la demora de los 5 minutos sera efectiva nuevamente.
3. Presión de suministro del agua de red: Minimo 25 PSIG (0.172 MPA). Maximo 50 PSIG (0.345 MPA). En unidades sin regulador de presión incorporado, si la presión del agua es superior a 50 PSIG (0.345 MPA) se debe usar un regulador de presión.
4. PRESION CO2: Presión nominal recomendada 70 PSIG (0.483 MPA). Se puede reducir la presión a un minimo de 60 PSIG (0.413 MPA), si se utilizan bombas de jarabe internas con jarabes de alta viscosidad. IMPORTANTE: Las bombas de jarabe internas pueden no trabajar a presiones por debajo de 60 PSIG (0.413 MPA). Presiones superiores a 80 PSIG (0.552 MPA) pueden dañar o causar fugas en el sistema de bombeo de jarabe o producir excesiva espuma en el producto terminado.
5. Ajuste de las valvulas: Cerciórese de que la temperatura de la bebida es inferior a 4.4°C (40°F) antes de regular el coeficiente Brix.



REGLES DE SECURITE POUR L'INSTALLATION DU DISTRIBUTEUR DE SODAS



La propreté de cet ensemble est assurée à l'usine suivant les spécifications émises par Lancer .

Il est essentiel de respecter les 6 points suivants pour l'installation de l'appareil:

1. Si le distributeur est installé dans une zone ou la tension électrique nominale est susceptible de variations de (+) 10%, il est conseillé d'installer un appareil de protection contre les sautes de courant.
2. L'unité est équipée d'une minuterie de protection pour le moteur de la pompe de carbonateur, réglée sur 3 minutes. Si le moteur du carbonateur s'est dérèglée, il faut refaire le réglage manuellement, soit en débranchant temporairement l'unité, soit en arrêtant l'appareil avec l'interrupteur (s'il y en a un). Le rétablissement du courant sera suivi par le délai de 5 minutes du compresseur.
3. Pression de l'eau: Minimum 25 PSIG (0,176 MPA); Maximum 50 PSIG (0,352 MPA). Sur les unités qui n'ont pas de régulateur de pression d'eau incorporé, si la pression d'H2O est supérieure à 50 PSIG (0,352 MPA), un régulateur de pression d'eau doit être utilisé.
4. Pression de CO2: on recommande une pression nominale de 70 PSIG (0,483 MPA). La pression peut être réduite à un minimum de 60 PSIG (0,413 MPA) si on utilise des pompes à sirop séparés. Elle peut être augmentée jusqu'à un maximum de 80 PSIG (0,552 MPA) uniquement les pompes à sirop internes sont utilisées avec des sirops très épais. ATTENTION: Les pompes à sirop internes peuvent ne pas fonctionner à des fuites dans le système de pompage du sirop, ou produire trop de mousse dans les boissons.
5. Réglage des valves: S'assurer que la température de la boisson est inférieure à 4.4°C (40°F) avant de régler le degré Brix.



ELECTRICAL WARNING/ADVERTENCIA ELÉCTRICA/ AVERTISSEMENT ÉLECTRIQUE



⚠ 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. Follow all local electrical codes when making connections. Each dispenser must have a separate electrical circuit. Do not use extension cords with this unit. Do not 'gang' together with other electrical devices on the same outlet. The keyswitch does not disable the line voltage to the transformer primary. Always disconnect electrical power to the unit to prevent personal injury 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. Only qualified personnel should service internal components of electrical control housing. Make sure that all water lines are tight and units are dry before making any electrical connections!

⚠ Verifique la placa con el número de serie del dispensador, donde encontrará los requisitos eléctricos correctos de la unidad. No enchufe la unidad en un tomacorriente de pared a menos que la corriente indicada en la placa con el número de serie concuerde con la corriente local disponible. Al hacer las conexiones, respete todos los códigos eléctricos locales. Cada dispensador debe tener un circuito eléctrico independiente. No use extensiones con esta unidad. No la conecte junto con otros dispositivos eléctricos al mismo tomacorriente. El interruptor de llave no corta el voltaje de línea al transformador primario desconecte siempre la alimentación eléctrica a la unidad para evitar lesiones personales antes de tratar de realizar tareas de mantenimiento. El disyuntor de sobrecarga resettable no se debe usar como sustituto para desenchufar el dispensador de la fuente de alimentación para realizar tareas de servicio de la unidad. El servicio de los componentes internos de la caja de control eléctrico debe confiarse exclusivamente a personal calificado. Asegúrese de que todas las líneas de agua estén ajustadas y las unidades estén secas antes de hacer conexiones eléctricas.

⚠ Examinez la plaque de numéro de série du distributeur pour connaître les bonnes exigences en matière d'électricité pour l'appareil. Ne le branchez pas à une prise électrique murale à moins que le courant indiqué sur la plaque de numéro de série corresponde au courant local disponible. Respectez tous les codes électriques locaux lorsque vous faites des connexions. Chaque distributrice doit avoir un circuit électrique séparé. N'utilisez pas de cordons prolongateurs avec cet appareil. Ne pas le brancher avec d'autres appareils électriques sur la même prise. L'interrupteur à clé ne coupe pas la tension secteur au transformateur primaire. Débranchez toujours le courant électrique à l'appareil, afin de prévenir des blessures, avant de faire un entretien interne quelconque. Le disjoncteur réarmable ne devrait pas être utilisé au lieu de débrancher le distributeur de la source d'alimentation en électricité pour faire de l'entretien/une réparation de l'appareil. Seul le personnel qualifié devrait faire l'entretien/la réparation des composants internes dans le logement des commandes électriques. Assurez-vous que toutes les conduites d'eau sont étanches et que les appareils sont secs avant de faire des connexions électriques!



CO₂/CARBON DIOXIDE /EI ANHÍDRIDO CARBÓNICO/ DIOXYDE DE CARBONE



⚠ Carbon Dioxide (CO₂) is a colorless, noncombustible gas with a light 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 by a loss of consciousness and suffocation. If a CO₂ gas leak is suspected, immediately ventilate the contaminated area before attempting to repair the leak. Strict attention must be observed in the prevention of CO₂ gas leaks in the entire CO₂ and soft drink system.

⚠ El anhídrido carbónico (CO₂) es un gas incoloro, no combustible, con un olor pungente ligero. Altos porcentajes de CO₂ en la sangre pueden desplazar el oxígeno en la sangre. La exposición prolongada al CO₂ puede ser nociva. El personal expuesto a concentraciones altas de CO₂ sufre temblores seguidos de la pérdida de la consciencia y sofocación. Si se sospecha que existe una pérdida de CO₂, ventile el área contaminada antes de tratar de reparar la pérdida. Hay que prestar suma atención para evitar pérdidas de CO₂ en todo el sistema de CO₂ y de bebidas gaseosas.

⚠ Le dioxyde de carbone (CO₂) est plus lourd que l'air et déplace l'oxygène. Le CO₂ est un gaz incolore et incombustible, ayant une odeur un peu âcre. Des concentrations fortes de CO₂ peuvent déplacer l'oxygène dans le sang. Une exposition prolongée au CO₂ peut être nocive. Le personnel exposé à de fortes concentrations de CO₂ gazeux éprouvera des tremblements, suivis rapidement d'une perte de conscience et de suffocation. On doit faire très attention de prévenir les fuites de CO₂ gazeux dans le système entier de CO₂ et de boisson gazeuse. Si on suspecte qu'il y a une fuite de CO₂ gazeux, aérez le secteur contaminé immédiatement avant d'essayer de réparer la fuite.



AUTOMATIC AGITATION/AGITACIÓN AUTOMÁTICA/



⚠ Units are equipped with an automatic agitation system and will activate unexpectedly. Do not place hands or foreign objects in the water bath tank. 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.

⚠ Las unidades están equipadas con un sistema automático de agitación, por lo que se pueden activar repentinamente. No ponga las manos ni objetos extraños en el compartimiento donde se guarda el hielo. Durante el servicio, la limpieza y la esterilización, desenchufe el dispensador. Para evitar lesiones personales, no trate de levantar el dispensador sin ayuda. Para los dispensadores más pesados, use un elevador mecánico.

⚠ Les appareils sont équipés d'un système d'agitation automatique qui s'activera de manière inattendue. Ne mettez pas les mains ou des corps étrangers dans le compartiment d'entreposage de glace. Débranchez le distributeur pendant l'entretien/la réparation, le nettoyage et l'aseptisation. Pour éviter des blessures, n'essayez pas de soulever le distributeur sans aide. Pour les distributeurs plus lourds, utilisez un chariot élévateur.



WATER NOTICE/AGUA AVISO/ PRÉAVIS DE L'EAU



⚠ 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. The water supply line must be at least a 3/8 inches (9.525 mm) pipe with a minimum of 25 PSI (0.172 MPA) line pressure, but not exceeding a maximum of 50 PSI (0.345 MPA). Water pressure exceeding 50 PSI (0.345 MPA) must be reduced to 50 PSI (0.345 MPA) with the provided pressure regulator. 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. The water supply must be protected by means of an air gap, a backflow prevention device (located upstream of the CO2 injection system) or another approved method to comply 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.

⚠ Proporcione un suministro adecuado de agua potable. La línea de suministro de agua debe ser de una tubería de por lo menos 3/8 pulgadas (9.525 mm) con una presión de línea mínima de 25 PSI (0.172 MPA), pero sin superar el máximo de 50 PSI (0.345 MPA). La presión de agua que supere los 50 PSI se debe reducir a 50 PSI (0.345 MPA) con un regulador de presión. Use un filtro en la línea de agua para evitar daños al equipo y cierto sabor raro en las bebidas. Verifique periódicamente el filtro de agua de acuerdo con las condiciones imperantes. El suministro de agua debe estar protegido por una separación de aire, un dispositivo de prevención del contraflujo (situado antes del sistema de inyección de CO2) u otro método aprobado para cumplir las normas NSF. Si la válvula de retención de entrada de agua tuviera pérdidas, permitiría el contraflujo del agua carbonatada a través de la bomba cuando se la detiene y contaminaría el suministro de agua. Asegúrese de que el dispositivo de prevención del contraflujo cumpla con las normas locales y de ASSE. Es responsabilidad del instalador cumplir con estos requisitos.

⚠ Fournissez une alimentation en eau potable adéquate. Les connexions et les dispositifs de conduite d'eau connectés directement à une alimentation en eau potable doivent être calibrés, installés et maintenus selon les lois fédérales, provinciales et locales. La conduite d'alimentation en eau doit être un tuyau d'au moins 3/8 pouces (9.525 millimètres) avec une pression de ligne minimum de 25 LPC (0.172 MPA), mais ne doit pas dépasser un maximum de 50 LPC (0.345 MPA). Une pression d'eau de plus de 50 LPC (0.345 MPA) doit être réduite à 50 LPC (0.345 MPA) avec le régulateur de pression fourni. Utilisez un filtre dans la conduite d'eau pour éviter des dommages à l'équipement et un goût des boissons qui n'est pas juste. Vérifiez le filtre à eau périodiquement, selon les exigences des conditions locales. L'alimentation en eau doit être protégée au moyen d'un intervalle d'air, un disjoncteur hydraulique (situé en amont du système d'injection de CO2) ou une autre méthode approuvée pour se conformer aux normes de la NSF. Un clapet antiretour pour l'eau entrante qui fuie permettra à l'eau gazeuse de repasser par la pompe quand elle est fermée et de contaminer l'alimentation en eau. Assurez-vous que le disjoncteur hydraulique soit conforme aux normes de l'ASSE et locales. L'installateur est responsable d'assurer la conformité.

1. INSTALLATION

1.1 RECEIVING

Each unit is completely tested under operating conditions and thoroughly inspected before shipment. At time of shipment the carrier accepts the unit, and any claim for damage must be made with the carrier. Upon receiving units from the delivering carrier, carefully inspect carton for visible indication of damage. If damage exists, have carrier note same on bill of lading and file claim with carrier.

1.2 UNPACKING

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

1.3 SELECTING COUNTER LOCATION (SEE FIGURE 1)



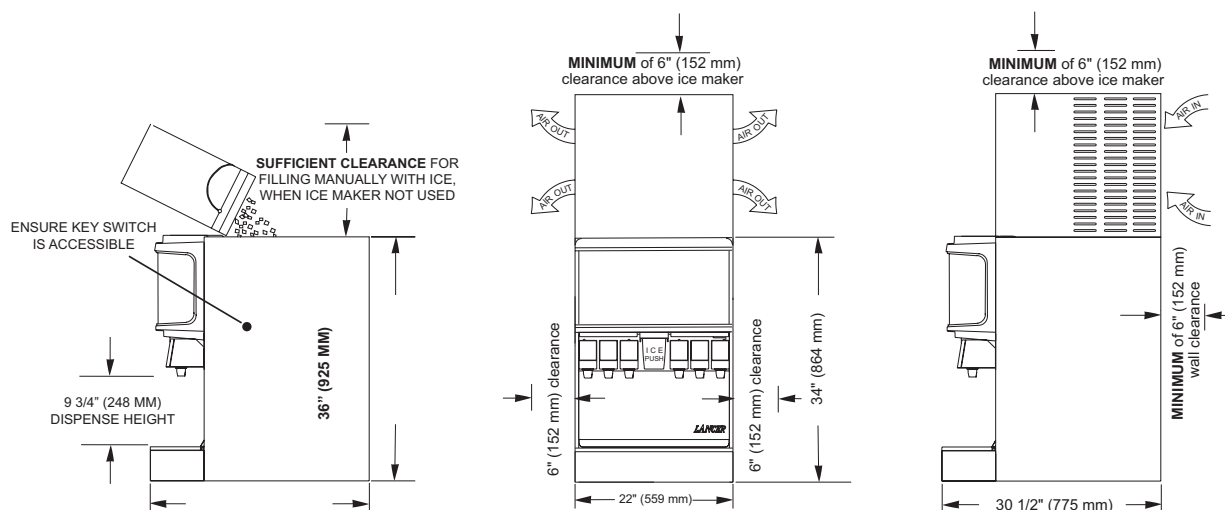
WARNING THIS APPLIANCE MUST BE EARTHED. THIS DISPENSER MUST BE ELECTRICALLY GROUNDED TO AVOID DANGER TO THE OPERATOR. THE POWER CORD PROVIDED HAS A THREE PRONG GROUNDED PLUG. IF A THREE HOLE GROUNDED ELECTRICAL OUTLET IS NOT AVAILABLE, USE AN APPROVED METHOD OF INSURING A PROPER GROUND TO THE DISPENSER.

ADVERTENCIA ESTE APARATO DEBE CONECTARSE A TIERRA. ESTE DISPENSADOR DEBE TENER CONEXIÓN A TIERRA PARA EVITAR PELIGRO PARA EL OPERADOR. EL CABLE SUMINISTRADO TIENE UN ENCHUFE DE TIERRA DE TRES PUNTAS. SI UN AGUJERO TRES TOMACORRIENTE PUESTO A TIERRA NO ESTÁ DISPONIBLE, UTILICE UN MÉTODO APROBADO DE ASEGURAR UNA TIERRA CORRESPONDIENTE EN LA CUBETA.

AVERTISSEMENT CET APPAREIL DOIT ÊTRE MIS A LA TERRE. CE DISTRIBUTEUR DOIT ÊTRE MIS À LA TERRE ÉLECTRIQUE POUR ÉVITER DANGER POUR L'OPÉRATEUR. LE CORDON D'ALIMENTATION FOURNIS A UN TROIS BROCHES TERRE. SI UN TROIS TROUS TERRE ALIMENTATION ÉLECTRIQUE N'EST DISPONIBLE, UTILISER UNE MÉTHODE APPROUVÉE D'ASSURER UN MOTIF VALABLE AU DISTRIBUTEUR.

- A. Select a location close to a properly grounded electrical outlet, convenient to an open type drain, access for soda, water, and syrup lines, and sufficient clearance for air circulation.
 1. If at all possible, location should be away from direct sunlight or other heat sources.
 2. Connecting lines may be run through access in back of the unit or extend down through a counter cut out.
 3. The counter must support the weight of the dispenser, ice, and possibly an ice maker. Total weight may exceed 800 lbs (363.6 kg).
- B. Unit may be installed directly on the countertop or on legs supplied with the unit. If installed directly on the counter, the unit must be sealed to the countertop. If an ice maker is to be mounted on top of dispenser, do not install dispenser on legs.

FIGURE 1.



1.3 SELECTING COUNTER LOCATION (CONTINUED)

NOTE: Water pipe connections and fixtures directly connected to a potable water supply must all be sized, installed, and maintained according to Federal, State, and Local laws. The water supply must be protected by means of an air gap, a backflow prevention device (located upstream of the CO2 injection system) or another approved method to comply with NSF standards. A backflow prevention device must comply with ASSE and local standards. It is the responsibility of the installer to ensure compliance.

- C. Location must insure sufficient clearance on sides, top and back of unit is provided for ventilation and air circulation (see Figure 1).
- D. Additionally, if an ice maker is not top mounted on the unit, sufficient clearance should be provided [a minimum of 16 inches (40.6 cm) is recommended] to allow filling the unit with ice from a five (5) gallon (19 liter) container (see Figure 1).

1.4 INSTALLING THE DISPENSER

- A. Remove Cup Rest, Drip Tray, Splash Plate, and Top Cover.
- B. Remove Cover Plate at rear of unit if not a through the counter installation.
- C. Connect soda and water supply lines to 3/8 inch barb fittings at the front of the unit. Check for leaks. (If dispenser is to operate with all soda valves, connect water line into one of the soda supply lines.)
- D. Connect syrup supply lines to the 3/8 inch barb inlet fittings at the front of the unit. Check for leaks.
- E. Uncoil drain hose from Cold Plate drain and extend to an open type drain.
- F. Install Drip Tray and extend hose to open type drain.
- G. Both drain lines must be insulated with a closed cell insulation. Insulation must cover the entire length of the drain hose, including fittings. The drain should be installed in such a manner that water does not collect in sags or other low points, as condensation will form.
- H. Install Cup Rest and Splash Plate.
- I. Connect Power Cord to grounded electrical outlet.
- J. Test Motor operation by pushing Ice Chute.
- K. Clean and sanitize dispenser (see Section 2).
- L. Fill unit approximately half full with ice. Push Chute and check for ice delivery.
- M. Finish filling unit with ice.
- N. Install Top Cover.

NOTE: Lancer does not recommend the use of shaved, flake, nugget, or pellet ice in dispensers not properly equipped to do so.

- O. Set brix ratio for beverage dispensing valves according to manufacturer's instructions.



WARNING WHEN INSTALLING AN ICEMAKER ON AN IBD UNIT, A BIN THERMOSTAT OR OTHER MEANS OF CONTROLLING THE ICE LEVEL MUST BE INSTALLED. FAILURE TO DO SO COULD RESULT IN DAMAGE TO THE DISPENSING MECHANISM AND VOID THE WARRANTY. DURING THE AUTOMATIC AGITATION CYCLE AND/OR WHILE DISPENSING ICE, THERE MUST BE ADEQUATE ROOM BETWEEN THE TOP OF THE ICE LEVEL AND THE BOTTOM OF THE ICEMAKER SO THAT THE ICE CAN MOVE WITHOUT OBSTRUCTION. CONTACT YOUR ICEMAKER SUPPLIER FOR INFORMATION ON PROPER BIN THERMOSTAT.

ADVERTENCIA AL INSTALAR UNA MÁQUINA DE HIELO EN UNA UNIDAD DE IBD, A BIN TERMOSTATO U OTROS MEDIOS DE CONTROLAR EL NIVEL ICE DEBE ESTAR INSTALADO. NO HACERLO PUEDE CAUSAR DAÑOS AL MECANISMO DISPENSING Y ANULAR LA GARANTÍA. DURANTE EL CICLO AUTOMÁTICO AGITACIÓN Y / O HIELO, MIENTRAS QUE LA DISPENSACIÓN, DEBE HABER ESPACIO SUFICIENTE ENTRE EL TOP DEL NIVEL DE HIELO Y EL FONDO DE LA MÁQUINA DE HIELO PARA QUE EL ICE PUEDE MOVERSE SIN OBSTRUCCIÓN. CONTACTO CON SU PROVEEDOR DE FABRICACIÓN DE HIELO PARA INFORMACIÓN SOBRE ADECUADO BIN TERMOSTATO.

AVERTISSEMENT LORSQUE VOUS INSTALLEZ UNE MACHINE À GLAÇONS SUR UNE UNITÉ EIA, UN THERMOSTAT DU BAC OU AUTRES MOYENS DE CONTRÔLER LE NIVEAU DE LA CIE DOIT ÊTRE INSTALLÉ. PANNE DE LE FAIRE POURRAIT PROVOQUER DES DOMMAGES AU MÉCANISME DE DISTRIBUTION ET ANNULE LA GARANTIE. PENDANT LE CYCLE AUTOMATIQUE AGITATION ET / OU TOUT DISTRIBUTION DE GLACE, DOIVENT TROUVER PLACE SUFFISANTE ENTRE LE SOMMET DE L'ÉCHELLE DE L'ICE ET LE BAS DE LA MACHINE À GLAÇONS POUR QUE LA GLACE PEUT SE DÉPLACER SANS ENTRAVE. CONTACTEZ VOTRE FOURNISSEUR DE ICEMAKER INFORMATIONS SUR UNE BONNE THERMOSTAT DU BAC.

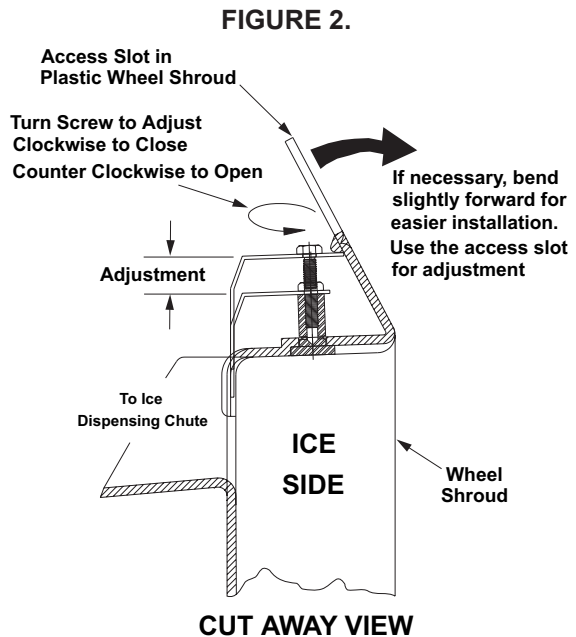
1.5 ADJUSTING THE ICE FLOW REGULATOR (230 VOLT UNITS ONLY) (SEE FIGURE 2)

The Regulator Door Assembly (PN 82-2904) can regulate the dispensed ice flow. Installation of an Ice Flow Regulator is NOT necessary for the dispensing of ice. This IBD unit will dispense ice unrestricted.

- A. Remove Bin Lids.
- B. Adjust Ice Regulator to desired position by turning the nut screw clockwise to close, or counter clockwise to open, with the use of a nut driver or a socket wrench (see Figure 2).

NOTE: Total adjustment: 1/2 inch.

- C. Reinstall bin lids.



2. CLEANING AND SANITIZING INSTRUCTIONS

2.1 GENERAL INFORMATION

- A. Lancer equipment (new or reconditioned) is shipped from the factory cleaned and sanitized in accordance with NSF guidelines. This equipment must be cleaned and sanitized after installation is complete, and the operator of the equipment must provide continuous maintenance as required by this manual and/or state and local health department guidelines to ensure proper operation and sanitation requirements are maintained.

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

- B. Cleaning and sanitizing should be accomplished only by trained personnel. Sanitary gloves are to be used during cleaning and sanitizing operations. Applicable safety precautions must be observed. Instruction warnings on the product being used must be followed.
- C. Water lines are not to be disconnected during the cleaning and sanitizing of syrup lines to avoid contamination.
- D. Do NOT use strong bleaches or detergents. They tend to discolor and/or corrode various materials.
- E. Do NOT use metal scrapers, sharp objects, steel wool, scouring pads, abrasives, solvents, etc., on the dispenser.
- F. Do NOT use hot water above 140°F (60°C). This may damage certain materials.

2.2 REQUIRED CLEANING EQUIPMENT

- A. Cleansers (for example, Ivory Liquid, Calgon, etc.) mixed with clean, potable water at a temperature of 90 to 110 degrees Fahrenheit should be used to clean equipment. The mixture ratio, using Ivory Liquid, is one (1) ounce of cleanser to two (2) gallons of water. A minimum of five (5) gallons of cleaning mixture should be prepared. Any equivalent cleanser may be used as long as it provides a caustic based, non-perfumed, easily rinsed mixture containing at least two (2) percent sodium hydroxide (NaOH). Rinsing must be thorough and use clean, potable water which is also at a temperature of 90° to 110°F.

NOTE: Extended lengths of product lines may require that an additional volume of cleaning solution be prepared.

- B. Sanitizing solutions should be prepared in accordance with the manufacturer's written recommendations and safety guidelines. The solution must provide 200 parts per million (PPM) available chlorine. A minimum of five (5) gallons of sanitizing solution should be prepared. Any sanitizing solution may be used as long as it is prepared in accordance with the manufacturer's written recommendations and safety guidelines, and provides 200 parts per million (PPM) available chlorine. Sanitizing solution is to be purged from line(s) and equipment by flushing with product only until there is no after taste. Do not rinse with water.

2.2 REQUIRED CLEANING EQUIPMENT (CONTINUED)

NOTE: Please note that a fresh water rinse cannot follow sanitization of equipment. Purge only with the end use product until there is no after taste in the product. This is an NSF requirement. Extended lengths of product lines may require that an additional volume of sanitizing solution be prepared.

C. Other:

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

2.3 DAILY CLEANING

Using a mild detergent solution, clean Top Cover and all exterior stainless steel surfaces. Clean exterior of dispensing valves and ice chute. Remove Cup Rest. Clean Drip Tray and Cup Rest, and replace Cup Rest. Wipe clean all splash areas using a damp cloth soaked in cleaning solution. Clean beverage valves as specified by the valve manufacturer.

2.4 ICE BIN CLEANING - START UP AND MONTHLY

- A. Disconnect Dispenser from power source.
- B. Remove Top Cover.
- C. Remove Agitator Pin from Agitator Shaft. Slide Agitator Shaft rearward out of Motor Shaft and pull out of rear Bearing to remove.
- D. Remove Dispensing Wheel from Motor Shaft by sliding rearward.
- E. Remove Dispensing Wheel Shroud.
- F. Remove Splash Plate Assembly by lifting it up and out from the dispenser face.
- G. Using cleaning solution, described in Section 2.2, and a clean cloth or soft brush, clean all removable parts, sides of Ice Bin, Ice Chute, and surface of aluminum casting.
- H. Repeat Step G for all exterior surfaces of the dispenser.
- I. Using hot water, thoroughly rinse away the cleaning solution.
- J. Wearing sanitary gloves, soak a clean cloth towel in sanitizing solution, described in Section 2.2, and wash all surfaces of removable parts, sides of Ice Bin, Ice Chute, and surface of aluminum casting.
- K. Repeat Step J for all metal and plastic surfaces (but not labels) of the dispenser exterior.
- L. Wearing sanitary gloves, reassemble all removable parts.
- M. Fill Unit with ice and replace Top Cover.

NOTE: Lancer does not recommend the use of shaved, flake, nugget, or pellet ice in dispensers not properly equipped to do so.

- N. Reconnect Dispenser to power source.

2.5 CLEANING AND SANITIZING BEVERAGE COMPONENTS - FIGAL SYSTEMS

NOTE: Extended lengths of product lines may require more time than stated below to flush and rinse lines.

- A. Disconnect syrup lines from syrup containers (for example, quick disconnects, figal containers, etc.).
- B. Connect hose half of syrup line to a syrup tank filled with clean, potable, room temperature water. Connect CO2 supply hose to tank and pressurize.
- C. Activate valve until water is dispensed. Flush and rinse line and fittings for a minimum of 60 seconds to remove all traces of residual product.

2.5 CLEANING AND SANITIZING BEVERAGE COMPONENTS - FIGAL SYSTEMS (CONTINUED)



WARNING TO AVOID POSSIBLE PERSONAL INJURY OR PROPERTY DAMAGE, DO NOT ATTEMPT TO REMOVE SYRUP TANK COVER UNTIL CO2 HAS BEEN RELEASED FROM TANK.

ADVERTENCIA PARA EVITAR POSIBLES LESIONES PERSONALES O DAÑOS MATERIALES, NO TRATE DE RETIRAR LA TAPA DEL TANQUE DE SORPE HASTA QUE SE HAYA LIBERADO LA PRESIÓN DEL CO2 DEL TANQUE.

AVERTISSEMENT POUR ÉVITER DES BLESSURES OU DES DOMMAGES MATÉRIELS POSSIBLES, N'ESSAYEZ PAS DE RETIRER LE COUVERCLE DU RÉSERVOIR DE SIROP, JUSQU'À CE QUE DE LA PRESSION DE CO2 AIT ÉTÉ LIBÉRÉE DU RÉSERVOIR.

- D. Disconnect CO2 supply hose from the water filled syrup tank.
 - E. Following the instructions as described in Section 3.1 above, mix appropriate amount of cleaning solution. Fill a tank with this solution. Connect hose half of syrup line to the tank. Connect CO2 supply hose to tank and pressurize.
 - F. Activate valve and draw cleaning solution through lines for a minimum of 60 seconds. This will ensure line is flushed and filled with cleaning solution. Allow line to stand for at least 30 minutes.
 - G. Disconnect CO2 supply hose from the tank.
 - H. Connect hose half of syrup line to a tank filled with clean, potable, water at a temperature of 90° to 110°F. Connect CO2 supply hose to tank and pressurize.
 - I. Activate valve to flush and rinse line and fittings for a minimum of 60 seconds to remove all traces of cleaning solution. Taste dispensed product to ensure there is no off-taste. If off-taste is found, additional flushing of syrup system may be required.
 - J. Disconnect CO2 supply hose from the tank.
 - K. Reconnect Dispenser to power source.
 - L. Following the instructions as described in 3.1 above, mix appropriate amount of sanitizing solution. Fill a tank with this solution. Connect hose half of syrup line to the tank. Connect CO2 supply hose to tank and pressurize.
 - M. Activate valve and draw sanitizing solution through line for a minimum of 60 seconds. This will ensure line is flushed and filled with sanitizing solution. Allow line to stand for at least 30 minutes.
 - N. Disconnect CO2 supply hose from the tank.
 - O. Reconnect syrup lines to syrup containers (for example, quick disconnects, figal containers, etc.) and ready unit for operation.
 - P. Draw drinks to refill the lines and flush the sanitizing solution from the dispenser.
- NOTE:** Please note that a fresh water rinse cannot follow sanitization of equipment. Purge only with the end use product until there is no after taste in the product.
- Q. Test dispenser in normal manner for proper operation. Taste dispensed product to ensure off-taste is not present. If off-taste is found, additional flushing of syrup system may be required.
 - R. Repeat cleaning, rinsing, and sanitizing procedures for each valve and each circuit.

2.6 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.
- C. Activate valve until water is dispensed. Flush and rinse line and fittings for a minimum of 60 seconds to remove all traces of residual product.
- D. Following the instructions as described in 3.1 above, mix appropriate amount of cleaning solution in a clean container. Place syrup inlet line in container filled with cleaning solution.
- E. Activate valve and draw cleaning solution through lines for a minimum of 60 seconds. This will ensure line is flushed and filled with cleaning solution. Allow line to stand for at least 30 minutes.
- F. Place syrup inlet line in a clean container filled with clean, potable, water at a temperature of 90° to 110°F.
- G. Activate valve to flush and rinse line and fittings for a minimum of 60 seconds to remove all traces of cleaning solution.

2.6 CLEANING AND SANITIZING BEVERAGE COMPONENTS - BAG-IN-BOX SYSTEMS (CONTINUED)

- H. Following the instructions as described in 3.1 above, mix appropriate amount of sanitizing solution in a clean container. Place syrup inlet line in container filled with sanitizing solution. Refer to Section 3.3 CAUTION.
- I. Activate valve and draw sanitizing solution through line for a minimum of 60 seconds. This will ensure line is flushed and filled with sanitizing solution. Allow line to stand for at least 30 minutes.
- J. Remove bag valve from quick disconnect coupling and reconnect syrup inlet line to syrup package. Ready unit for operation.
- K. Draw drinks to refill lines and to flush the chlorine sanitizing solution from the dispenser.

NOTE: Please note that a fresh water rinse cannot follow sanitization of equipment. Purge only with the end use product until there is no after taste in the product. This is an NSF requirement.

- L. Test dispenser in normal manner for proper operation. Taste dispensed product to ensure off-taste is not present. If off-taste is found, additional flushing of syrup system may be required.
- M. Repeat cleaning, rinsing, and sanitizing procedures for each valve and each circuit.

3. TROUBLESHOOTING

| ISSUE | CAUSE | SOLUTION |
|---|--|--|
| 3.1 No product when switch is activated (switch panel is not lit). | <ul style="list-style-type: none"> A. Malfunctioning switch assembly. B. No power to dispenser. C. Malfunctioning power supply. D. Malfunctioning PCB board. | <ul style="list-style-type: none"> A. Replace switch assembly. B. Check internal breaker and incoming power. C. Check voltage to power supply. Check fuses. D. Replace PCB board. |
| 3.2 No product when switch is activated (switch panel is lit). | <ul style="list-style-type: none"> A. Keyswitch is off or keyswitch harness is disconnected. B. Malfunctioning switch assembly. C. Malfunctioning LEV module. | <ul style="list-style-type: none"> A. Turn keyswitch on and/or reconnect keyswitch harness. B. Replace switch assembly. C. Replace module. |
| 3.3 Push chute; no response. | <ul style="list-style-type: none"> A. Dispenser not connected to power source. B. Hall-effect sensor defective. C. Wiring harness not plugged in. D. PC board defective. E. Malfunctioning power supply. F. Magnet not in ice chute shell. | <ul style="list-style-type: none"> A. Connect dispenser to power source. B. Replace ice chute base. C. Plug in wiring harness. D. Replace PC board. E. Check voltage to power supply. Check fuses. F. Install magnet in ice chute shell. |
| 3.4 Push chute, ice door opens but motor does not run. | <ul style="list-style-type: none"> A. Wiring harness not plugged in. B. PC board defective. C. Motor defective. | <ul style="list-style-type: none"> A. Plug in wiring harness. B. Replace PC board. C. Replace motor. |
| 3.5 Push chute, motor runs but ice door does not open. | <ul style="list-style-type: none"> A. Solenoid not connected to PC board. B. Solenoid defective. C. PC board defective. | <ul style="list-style-type: none"> A. Connect solenoid to PC board. B. Replace solenoid. C. Replace PC board. |
| 3.6 Push chute, ice door opens, motor runs, but ice does not dispense, or ice is of poor quality. | <ul style="list-style-type: none"> A. Dispenser is out of ice. B. Agitator pin is missing or damaged. C. Poor ice quality. D. Key not installed on auger shaft. E. Auger trough empty. | <ul style="list-style-type: none"> A. Fill dispenser with ice. B. Replace agitator pin. C. Service ice machine. D. Install key on auger shaft. E. Change agitation settings. |

| ISSUE | CAUSE | SOLUTION |
|--|---|---|
| 3.7 Water in ice bin. | A. Coldplate drain is obstructed. | A. Remove splash plate and drip tray to obtain access to drain tubes and clear accordingly. |
| 3.8 Water leakage around nozzle. | A. Damaged or improperly installed o-ring on nozzle. | A. If damaged, replace. If improperly installed, adjust. |
| 3.9 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. |
| 3.10 Noisy/cavitating carbonator pump. | A. Insufficient incoming water supply pressure. | A. Verify incoming supply water pressure to carbonator pump is min. of 25 PSI, max. of 50 PSI. |
| 3.11 Insufficient soda flow (carbonated drinks). | A. Insufficient CO2 supply pressure. B. Shutoff on mounting block is not fully open. C. Foreign debris in soda flow control. | A. Verify incoming CO2 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. |
| 3.12 Insufficient water flow (plain water drinks). | A. Insufficient incoming supply pressure. B. Shutoff on mounting block not fully open. C. Foreign debris in water flow control. D. Water filtration problem. | A. Verify incoming supply water pressure to plain water inlet is a minimum of 75 PSI, max. 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. D. Service water system as required. |
| 3.13 Erratic ratio. | A. Incoming water and/or syrup supply not at minimum flowing pressure. B. Foreign debris in water and/or syrup flow control. C. CO2 regulator malfunction. | A. Check pressure and adjust. B. Remove flow control from suspected valve and clean out any foreign material to ensure smooth spool movement. C. Repair or replace CO2 regulator. |

| ISSUE | CAUSE | SOLUTION |
|---|---|---|
| 3.14 Insufficient syrup flow. | <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>A. Adjust CO2 pressure to BIB pumps to 80 PSI (min. 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> |
| 3.15 Valve will not shut off. | <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> |
| 3.16 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> |
| 3.17 Water only dispensed, no syrup. Or syrup only dispensed, no water. | <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>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>A. Replace syrup BIB as required.</p> <p>B. Open shutoff completely.</p> <p>C. Remove valve from mounting block & open shutoffs slightly. Check water & syrup supply. If no supply, check unit 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> <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> |

| ISSUE | CAUSE | SOLUTION |
|--|---|---|
| 3.18 Syrup only dispensed. No water, but CO2 gas dispensed with syrup. | <p>A. Improper water flow to dispenser.</p> <p>B. Carbonator pump motor has timed out (display message 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, 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> |
| 3.19 Excessive foaming. | <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> |
| 3.20 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 has a short.</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> |

| ISSUE | CAUSE | SOLUTION |
|---|--|---|
| 3.21 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> |
| 3.22 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> |
| 3.23 BIB pump continues to operate when bag is empty. | <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> |
| 3.24 BIB pump fails to restart after bag replacement. | <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> |
| 3.25 BIB pump fails to stop when dispensing valve is closed. | <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> |
| 3.26 Low or no carbonation. | <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> |

4. LIGHT EMITTING DIODES (LEDS)

4.1 LED D3

This light is on when the ice dispense switch is activated. If the chute is depressed and the light does not turn on, check to see if the wire harness is connected or if the dispense switch is defective.

4.2 LED D4

This light is used on units with lid interlock switches. On the 4500 series ice-beverage dispenser, this light should always be lit. If it is not, check the Lid Interlock Jumper (black wire with 4 pin white connector).

4.3 LED D5

This light is on when +5VDC is present at the circuit board. It should be lit whenever the unit is connected to a power source. If the light is off, check to see if the internal circuit breaker on the transformer has tripped. If it has tripped, it can be reset by depressing the switch on the top of the transformer.

4.4 LED D6

This light is on when +32VDC is present at the circuit board. It should be lit whenever the unit is connected to a power source. If the light is off, check to see if the internal circuit breaker on the transformer has tripped. If it has tripped, it can be reset by depressing the switch on the top of the transformer.

4.5 LED D7

This light flashes when there is no ice between the sensors in the ice bin. If the bin is empty and the light is not flashing, check all wiring harnesses.


4.6 LED D8

This light is on when the solenoid is activated. When the chute is depressed, this light should turn on. If it does not, check to see if the solenoid leads are connected to the PC board or damaged, check continuity of solenoid. Replace if defective.

4.7 LED D9

This light is on when the motor is activated. When the chute is depressed, this light should turn on. If it does not, check to see if the motor harness is connected to the PC board or damaged, check continuity of motor harness and motor. Replace if defective.

5. AUTOMATIC AGITATION AND LOW ICE ALARM CONTROL

| | |
|---|--|
|  | <p>WARNING THIS UNIT IS EQUIPPED WITH AUTOMATIC AGITATION. IT MAY ACTIVATE UNEXPECTEDLY. DO NOT PLACE HANDS, OR FOREIGN OBJECTS IN THE ICE STORAGE COMPARTMENT. WHEN UNIT IS BEING SERVICED, CLEANED, OR SANITIZED, UNPLUG DISPENSER FROM THE POWER SOURCE.</p> |
| | <p>ADVERTENCIA ESTA UNIDAD ESTÁ EQUIPADA CON AUTOMÁTICO AGITACIÓN. PUEDE ACTIVAR INESPERADAMENTE. NO INTRODUZCA LAS MANOS, NI OTROS OBJETOS EXTRAÑOS EN EL COMPARTIMIENTO DE ALMACENAMIENTO DE HIELO. CUANDO LA UNIDAD SE ESTÁ ATENDIENDO, LIMPIADOS O DESINFECTADOS DISPENSADOR DESENCHUFE DE LA FUENTE DE ALIMENTACIÓN.</p> |
| | <p>AVERTISSEMENT CET APPAREIL EST ÉQUIPÉ AUTOMATIQUE AGITATION. ELLE PEUT ACTIVER UNE FAÇON INATTENDUE. NE PAS METTRE LES MAINS OU DES OBJETS DANS LE COMPARTIMENT DE STOCKAGE DE GLACE. AVEC L'APPAREIL EST RÉPARÉ, NETTOYÉES OU ASEPTISÉ, DISTRIBUTEUR DÉBRANCHEZ LA SOURCE D'ALIMENTATION.</p> |

Each Series 4500 ice beverage dispenser is equipped with automatic agitation for the ice bin. The unit is shipped with timing set at two (2) seconds ON every 60 minutes. Referring to the tables on the wiring diagram included in this manual (also affixed to the electrical box cover), the automatic agitation timing can be changed as follows. A set of DIP switches is provided to control the timing and low ice control.

NOTE: Dispensers using pellet ice must have the automatic agitation settings adjusted to four (4) seconds ON every 150 minutes. See Section 6.11.

5. AUTOMATIC AGITATION AND LOW ICE ALARM CONTROL (CONTINUED)

5.1 DIP#1

This switch controls the low ice indicator light. With the switch in the ON position, the light operates when a low ice condition exists. In the OFF position, the light is turned off. The unit is shipped with the light switch in the ON position.

5.2 DIP#2

This switch controls the low ice audible alarm. With the switch in the ON position, the alarm operates when a low ice condition exists. In the OFF position, the alarm is turned off. The unit is shipped with the alarm switch in the OFF position.

5.3 DIP#3 & #4

These switches control the ON time for automatic agitation. By referring to the table and setting the switches as shown, ON times from one (1) second to four (4) seconds [in one (1) second increments] can be obtained. EXAMPLE: For three (3) seconds ON time, switch 3 should be in the ON position, and switch 4 should be in the OFF position. The unit is shipped with two (2) seconds ON time.

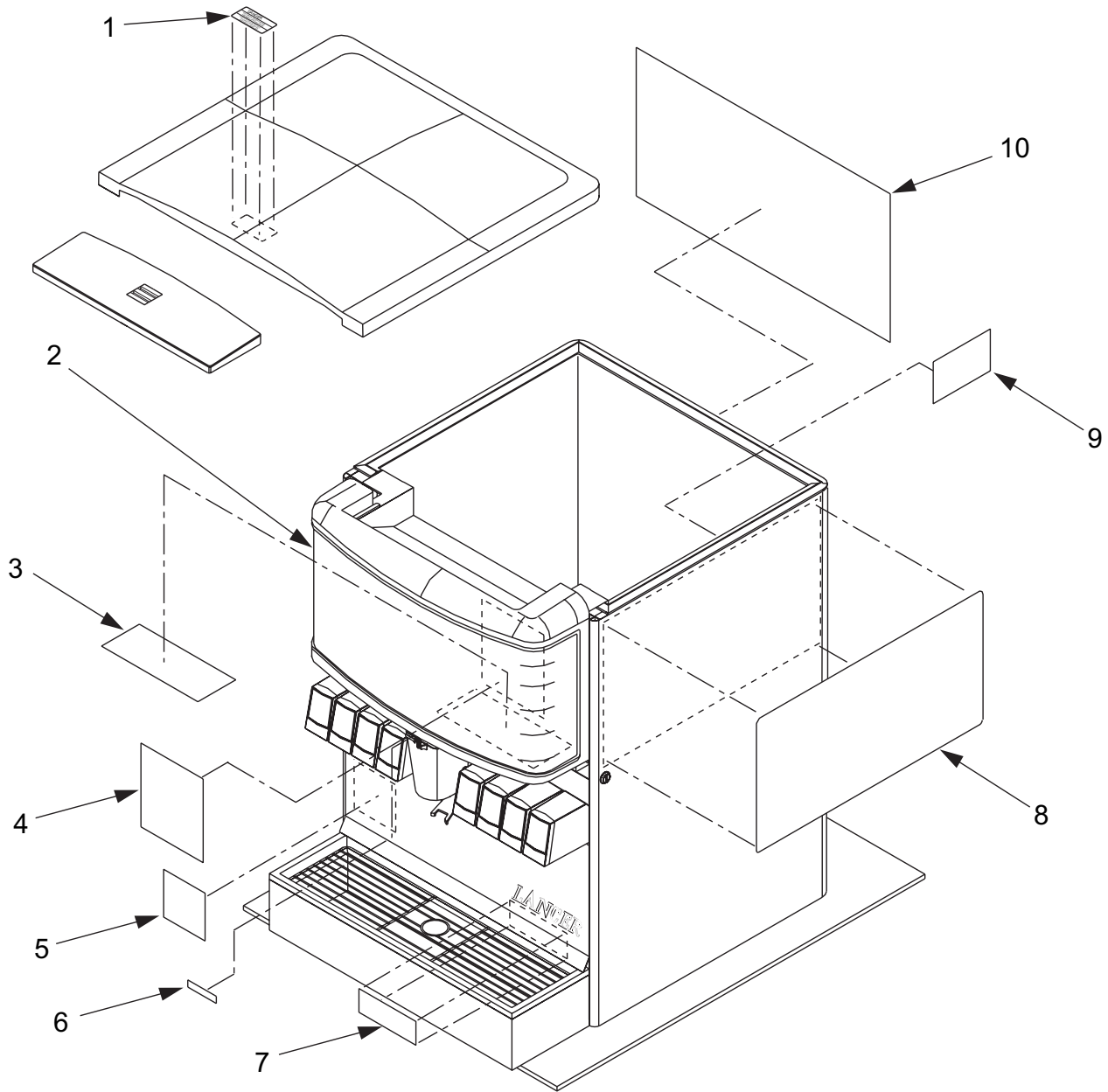
5.4 DIP#5 through #8

- A. These switches control the OFF time for automatic agitation. By referring to the table and setting the switches as shown, OFF times from 10 minutes to 150 minutes (in 10 minute increments) can be obtained. EXAMPLE: For 40 minute OFF time, switch 5 should be in the OFF position, switch 6 should be in the ON position, switch 7 should be in the OFF position, and switch 8 should be in the OFF position. The unit is shipped with 60 minute OFF time.
- B. To turn the agitation completely off, set switches 5 through 8 all OFF.

NOTES

6. ILLUSTRATIONS, PARTS LISTINGS, AND WIRING DIAGRAMS, IBD25

6.1 DECALS AND LABELS, IBD25

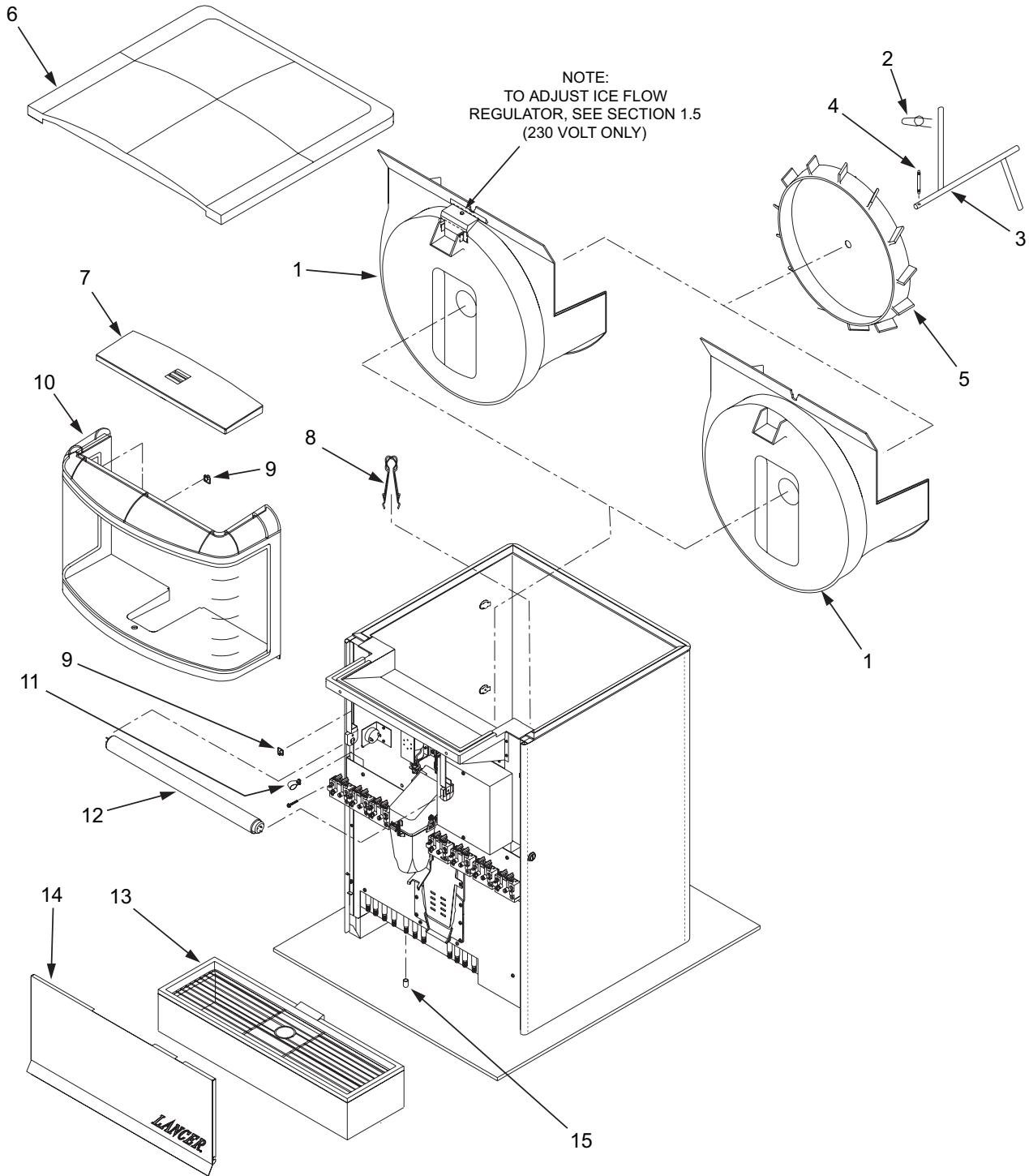


6.1 DECALS AND LABELS, IBD25 (CONTINUED)

| <u>Item</u> | <u>Part No.</u> | <u>Description</u> |
|-------------|-----------------|--|
| - | 85-4528H-100 | IBD25H, Series 4500, 115V/60Hz, 8 LEV® |
| - | 85-4538H-100 | IBD25H, Series 4500, 230V,/50-60Hz, 8 LEV® |
| 1 | 06-1139 | Label, Warning, Lid, IBD |
| 2 | 06-2117/01 | Panel, Graphic, IBD25, Round |
| 3 | 06-1184/01 | Label, Cleaning, Merchandiser |
| R 4 | 06-1182/04 | Label, Wiring Diagram, 115V, IBD (See Section 6.6) |
| R - | 06-1521/02 | Label, Wiring Diagram, 230V, IBD (See Section 6.7) |
| R 5 | 06-2226 | Label, Plumbing Diagram, IBD25 (See Section 6.2) |
| 6 | 06-1522 | Label, Low Ice, IBD |
| 7 | 06-1207 | Label, Cold Plate Cleaning, IBD |
| 8 | 06-2058/01 | Decal, Wrapper, Side, IBD, Round |
| 9 | 06-1183 | Label, Cleaning, Hopper, IBD |
| 10 | 06-2118/01 | Decal, Wrapper, Back, IBD25, Round |
| - | 12-0193 | Ice Out Indicator |
| - | 27-0068, | Lens, Clear, Marquee |
| - | 27-0071, | Diffuser, Marquee |

R in margin indicates change or revision

6.2 FINAL ASSEMBLY, POST-MIX IBD AND ICE DISPENSER, IBD25

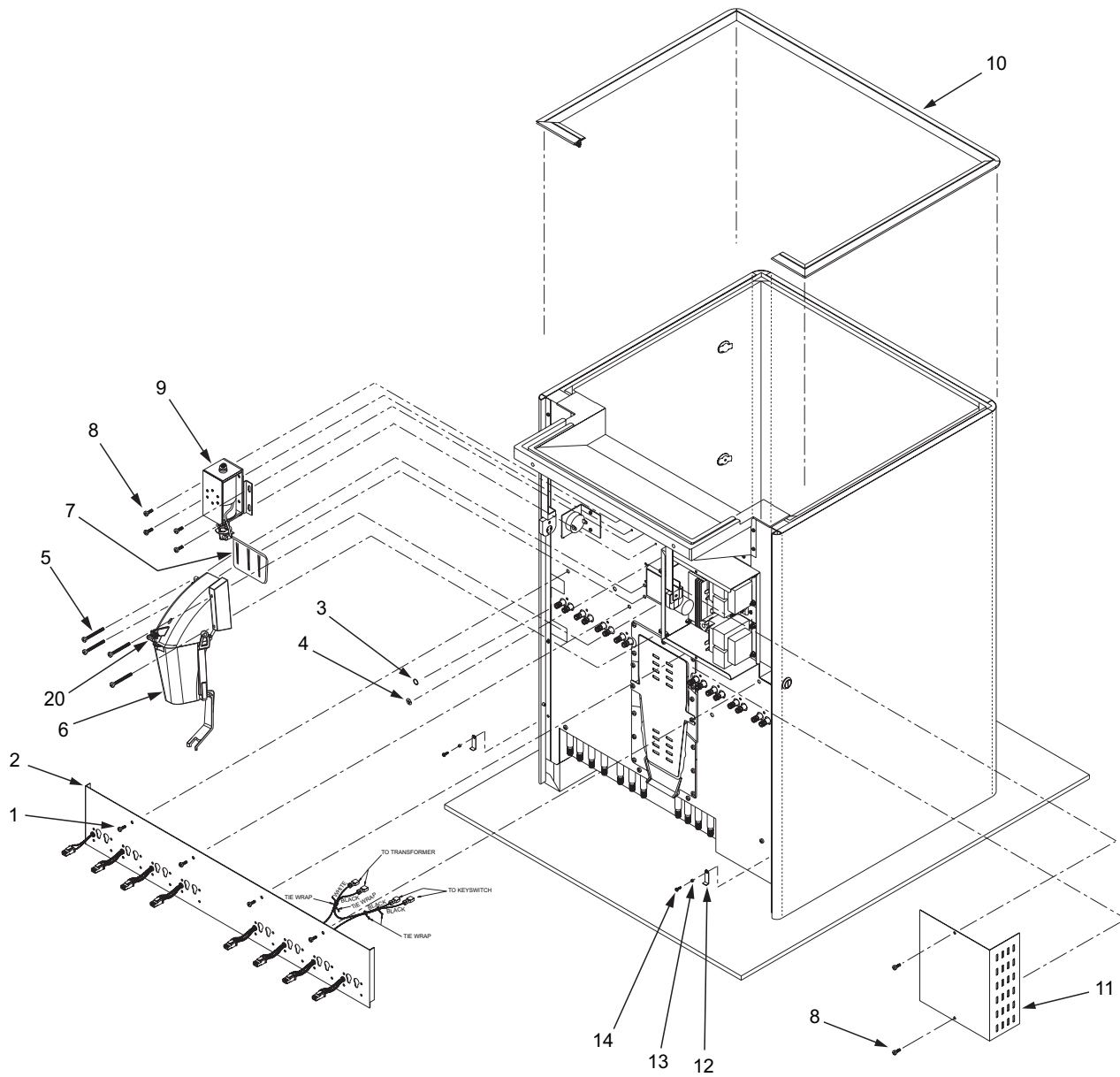


6.2 FINAL ASSEMBLY, POST-MIX IBD AND ICE DISPENSER, IBD25 (CONTINUED)

| <u>Item</u> | <u>Part No.</u> | <u>Description</u> |
|-------------|----------------------------|--|
| - | 85-4528H | IBD25H, Series 4500, 115V/60Hz, 8 Valve |
| - | 85-4538H | IBD25H, Series 4500, 230V/50-60Hz, 8 Valve |
| R 1 | 05-1658/01 | Wheel Shroud Assy, IBD25, Mod (115V) |
| R - | 82-2705 | Wheel Shroud Assy, IBD25, Mod (230V Only) |
| R 2 | 03-0368 | Retainer, RUE-14-S |
| R 3 | 23-1373 | Agitator Assy, HEX, IBD (115V) |
| R - | 23-1355 | Agitator Assy, IBD, (230V Only) |
| R 4 | 10-0762 | Pin, Agitator, IBD, Single Retainer |
| R 5 | 82-3556 | Dispensing Wheel Assy, HEX, IBD (115V) |
| R - | 82-3413 | Dispensing Wheel Assy, IBD (230V Only) |
| 6 | 05-1659 | Lid, Back, IBD25, Round |
| 7 | 05-1476 | Lid, Front, IBD, Round |
| 8 | 23-1038/01 | Drain, Spider, IBD |
| 9 | 03-0300 | Wire Clip, Adhesive |
| 10 | 82-2706 | Merchandiser Assy, IBD25 |
| 11 | 03-0049 | Clip, Cord |
| 12 | 12-0146/01 | Lamp, 18 Inch, 15W, T8 |
| 13 | 82-2707-SP | Drip Tray Assy, IBD, 25 Inch Wide (Before December 30, 2003) |
| -- | 82-3186-SP | Drip Tray Assy, IBD, 25 Inch Wide (After December 30, 2003) |
| 14 | 30-7517/01 | Plate, Splash, IBD, 25 Inch Wide (Before December 30, 2003) |
| -- | 30-8625 | Plate, Splash, IBD, 25 Inch Wide (After December 30, 2003) |
| 15 | 04-0559 | Cap, Protective, Vinyl, VC-375-8 |

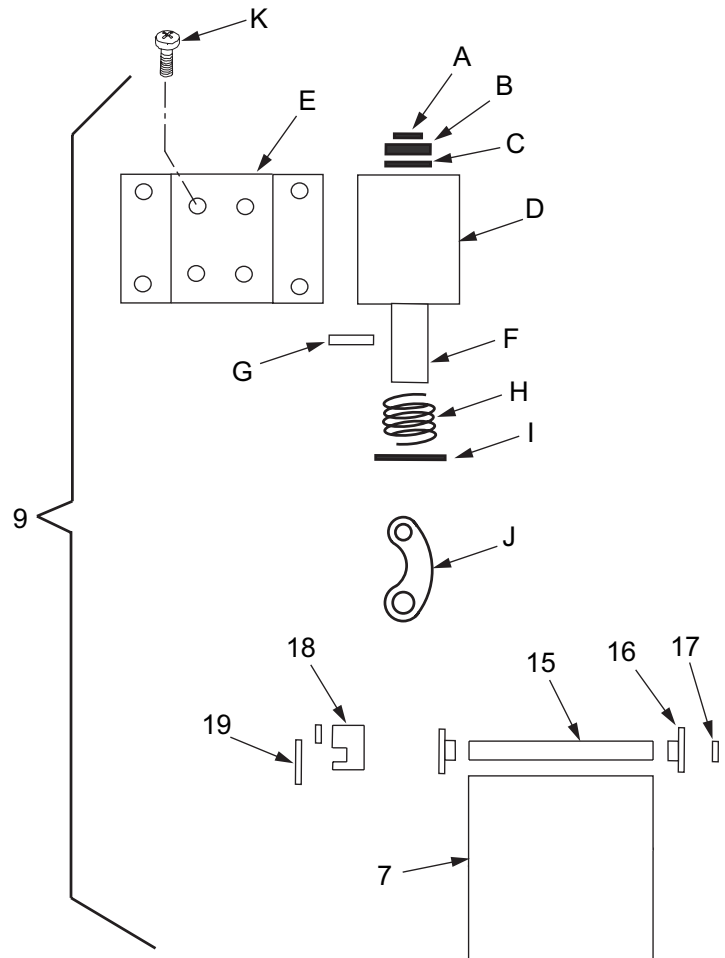
R in margin indicates change or revision

6.3 FAUCET PLATE AND ICE CHUTE SUB-ASSEMBLY, POST-MIX, IBD25

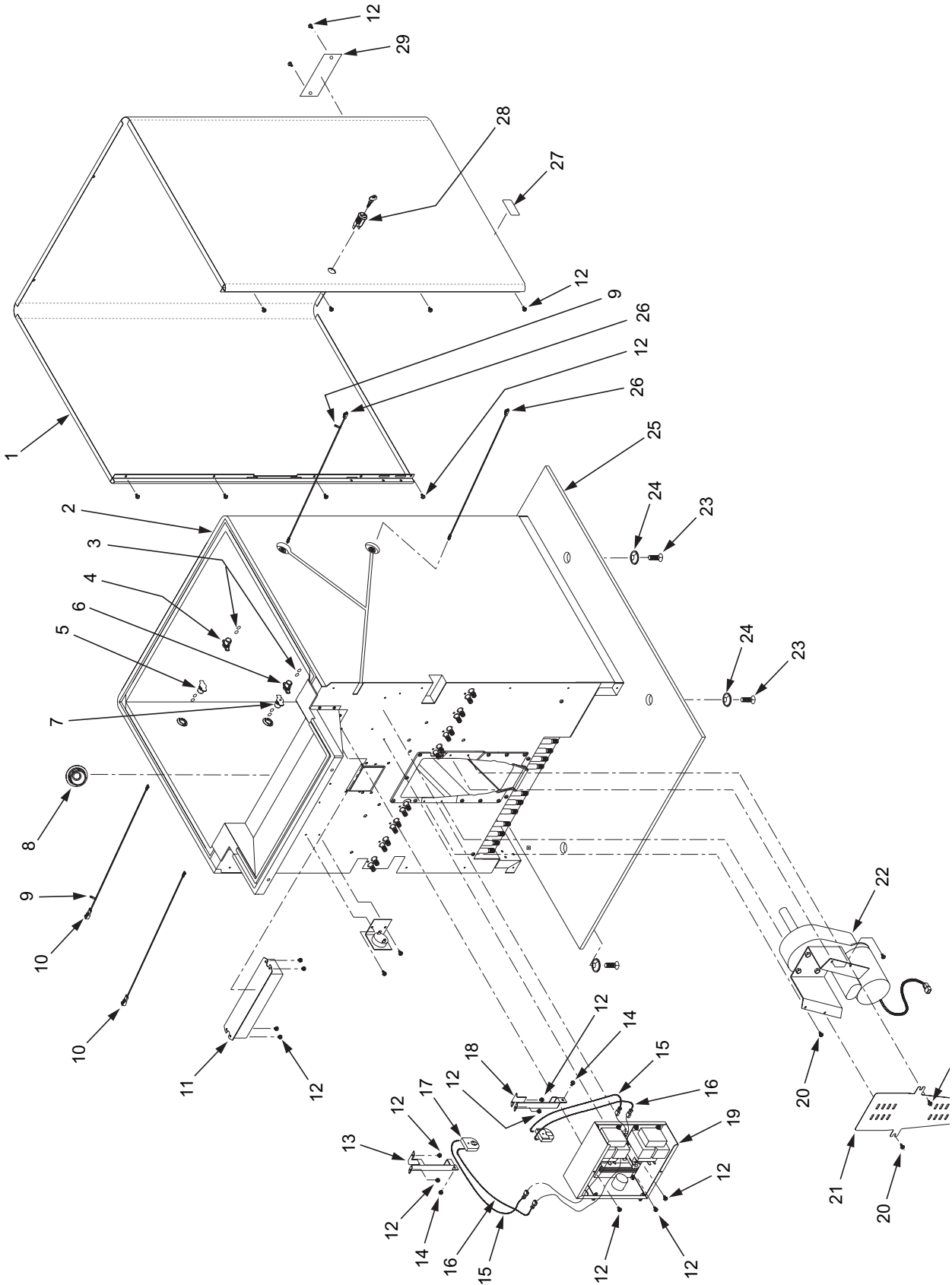


6.3 FAUCET PLATE AND ICE CHUTE SUB-ASSEMBLY, POST-MIX, IBD25 (CONTINUED)

| <u>Item</u> | <u>Part No.</u> | <u>Description</u> | <u>Item</u> | <u>Part No.</u> | <u>Description</u> |
|-------------|-----------------|--|--|-----------------|-----------------------------|
| - | 85-4528H | IBD25H, Series 4500, 115V/60Hz, 8 Valve | R 10 | 82-2704 | Trim Assy, IBD25, Round |
| - | 85-4538H | IBD25H, Series 4500, 230V/50-60Hz, 8 Valve | 11 | 30-5876/01 | Cover, Electrical Box, IBD |
| 1 | 04-0308 | Screw, 10 - 32 X 0.438 | R 12 | 30-6145 Lock, | Drip Tray, IBD |
| 2 | 82-2703 | Faucet Plate Assy, IBD25 | R 13 | 10-0364 | Spacer, Drip Tray Lock, IBD |
| R 3 | 02-0005 | O-Ring, 2-010 | R 14 | 04-0529 | Screw, 8 - 32 x 0.750, PH |
| R 4 | 06-0877 | Label, Ground | R 15 | 10-0732 | Shaft, ice Chute Door |
| R 5 | 04-0553 | Screw, 10 - 24 X 1.75, LG | R 16 | 05-0359 | Bushing, Shaft |
| R 6 | 82-3538 | Chute Assy, Printed, Small Dispenser, IBD | R 17 | 03-0113 | Ring, Retaining (5144-12) |
| R 7 | 05-0928/01 | Trap Door, IBD | R 18 | 05-0546 | Lever, Door |
| R 8 | 04-0504 | Screw, 8 - 18 x 0.375, PHD | R 19 | 03-0205 | Ring, Retaining (5304-25) |
| R 9 | 82-1566/01 | Solenoid Assy | R 20 | 12-0244 | Ice Door Switch |
| R A | 03-0086 | Ring, Retaining (5304-18) | R in margin indicates change or revision | | |
| R B | 04-0328 | Washer, Rubber | | | |
| R C | 04-0327 | Washer, Flat | | | |
| R D | 12-0195 | Solenoid, D-90 | | | |
| R E | 30-5165 | Bracket, Solenoid | | | |
| R F | 23-1380 | Plunger Assy | | | |
| R G | 10-0496 | Pin, Solenoid Assy | | | |
| R H | 03-0110 | Spring, Solenoid | | | |
| R I | 03-0111 | Ring, Retaining (5133-62) | | | |
| R J | 10-0353 | Linkage, Door, IBD | | | |
| R K | 04-0320 | Screw, 8 - 32 x. 0.187, PHD | | | |



6.4 ELECTRICAL BOX AND GEAR MOTOR SUB-ASSEMBLY, POST-MIX, IBD25



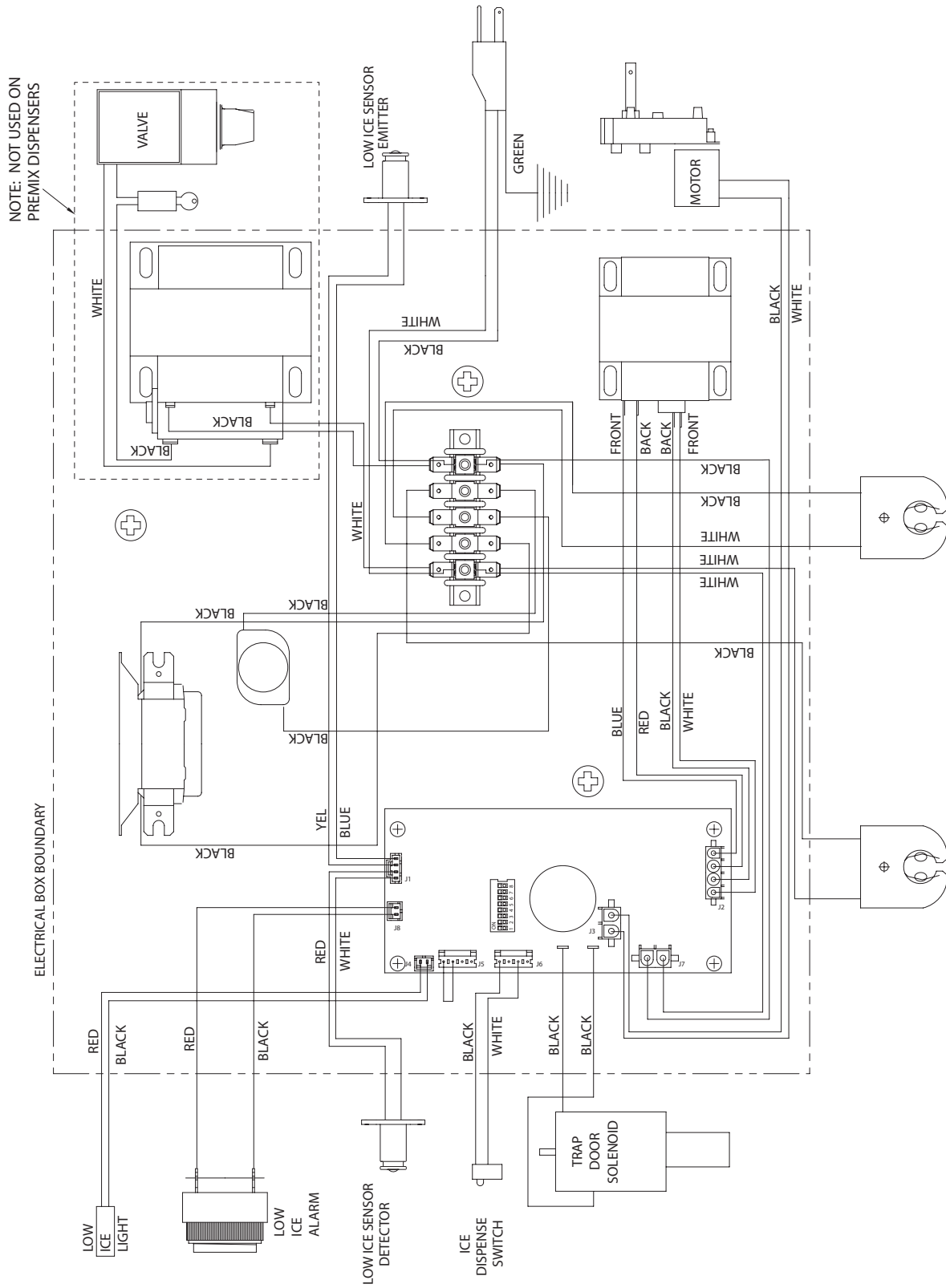
6.4 ELECTRICAL BOX AND GEAR MOTOR SUB-ASSEMBLY, POST-MIX, IBD25 (CONTINUED)

| <u>Item</u> | <u>Part No.</u> | <u>Description</u> |
|-------------|-------------------------|---|
| - | 85-4528H | IBD25H, Series 4500, 115V/60Hz, 8 Valve |
| - | 85-4538H | IBD25H, Series 4500, 230V/50-60Hz, 8 Valve |
| 1 | 30-7153 | Wrapper Assy, IBD25, Round (Before December 30, 2003) |
| -- | 30-8628 | Wrapper Assy, IBD25, Round (After December 30, 2003) |
| 2 | 82-2701H | Tank Assy, Foamed, IBD25 |
| R 3 | 02-0155 | O-Ring, 2-015 |
| 4 | 05-1858 | Body, Emitter, Sensor, Plug |
| 5 | 05-1859 | Body, Detector, Sensor, Plug |
| 6 | 52-2352 | Emitter Assy, Sensor |
| 7 | 52-2353 | Detector Assy, Sensor |
| 8 | 02-0406 | Seal, Shaft, Motor, IBD |
| 9 | 06-2488 | Label, Ice Link Tag, IBD |
| 10 | 52-2450 | Harness Assy, Detector, IBD |
| 11 | 52-2122 | Ballast Assy, Long Lead, 230V, IBD |
| 12 | 04-0504 | Screw, 8 - 18 x 0.375 |
| 13 | 30-6153 | Bracket, Left, Light, IBD |
| 14 | 04-0237 | Screw, 8 - 32 x 0.250 |
| 15 | 52-1584 | Harness Assy, Light, Black |
| 16 | 52-1583 | Harness Assy, Light, White |
| 17 | 11-0295 | Socket, 660W/600V MAX |
| 18 | 30-6152 | Bracket, Right, Light, IBD |
| R 19* | 82-1529/02 | Electrical Box Assy, IBD, 115V* |
| R -** | 82-2017/02 | Electrical Box Assy, IBD, 230V** |
| R - | 52-1527 | Power Cord Assy, 115V |
| R - | 52-2006 | Power Cord Assy, 230V |
| 20 | 04-0069 | Screw, 10 - 16 X 0.500 |
| 21 | 30-6147 | Cover, Motor, IBD |
| R 22 | 82-3688 | Drive Assy, Motor, HEX, IBD, 115V |
| - | 82-2018 | Drive Assy, Motor, IBD, 230V |
| 23 | 04-0203 | Screw, 3/8 - 16 X 1.00, FHD |
| 24 | 07-0211 | Washer, Shipping Base |
| 25 | 90-0985 | Shipping Board, IBD, 25 Inch Wide |
| 26 | 52-2449 | Harness Assy, Emitter, IBD |
| 27 | 06-1580 | Label, Patent |
| R 28*** | 12-0097 | Switch, Key Lock*** |
| 29 | 30-7113 | Cover, Cutout, Wrapper, IBD |
| R - | 05-1555 | Rear Bearing (Not Shown) |
| R | REF | Ballast Assy Components (Not Shown) |
| R -- | 12-0104 | Starter, 115VAC, 14-20 WA |
| R -- | 12-0194 | Starter, Base |
| R | REF | Electrical Box Assy Components (Not Shown) |
| R *-- | 52-1436/05 | PCB Assy, Available as Spare Part |
| R *-- | 25-0039 | 120V-24V Transformer, Available as Spare Part |
| R *-- | 25-0047 | 75VA-24V Transformer, Available as Spare Part |
| R **-- | 25-0040 | 220V-24V Transformer, Available as Spare Part |
| R ***-- | 81-0126 | Key, Available as Spare Part |

R in margin indicates new or revised data

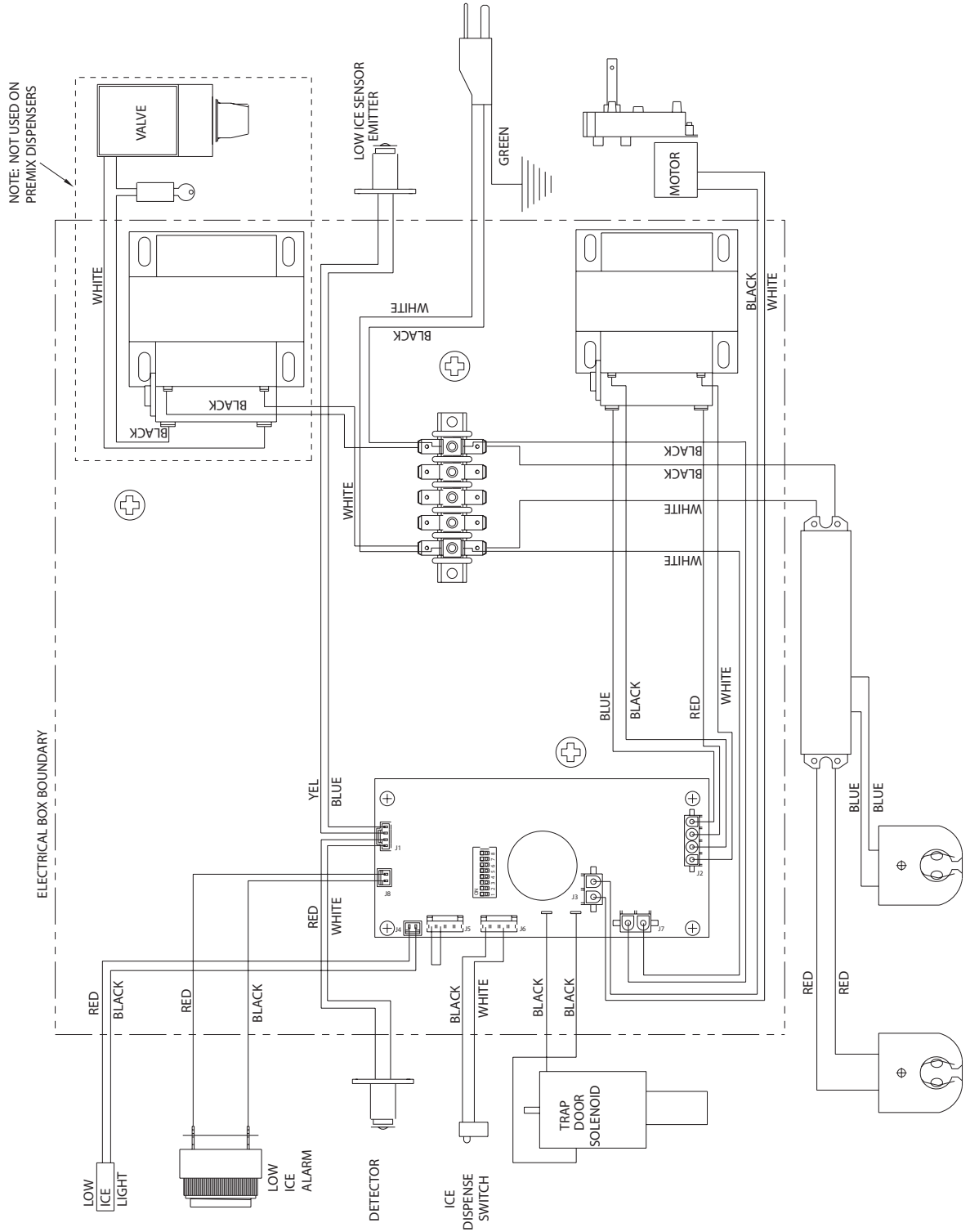
6.5 WIRING DIAGRAM - 115V/60HZ, SERIES 4500 IBD

WIRING DIAGRAM FOR LANCER ICE DISPENSER WITH LOW ICE SENSING (TYP.)



6.6 WIRING DIAGRAM - 230V/50-60HZ, SERIES 4500 IBD

WIRING DIAGRAM FOR LANCER ICE DISPENSER WITH LOW ICE SENSING (TYP.)



EXPANDED VIEW OF CONTROLS

| SWITCH NUMBER | AGITATION | | |
|---------------|-----------|---|---|
| | 5 | 6 | 7 |
| | O | O | O |
| | O | O | X |
| | O | X | O |
| | O | X | X |
| | O | X | O |
| | O | X | X |
| | O | O | X |
| | O | X | O |
| | O | X | X |
| | X | O | O |
| | X | O | X |
| | X | O | O |
| | X | O | X |
| | X | X | O |
| | X | X | X |
| | X | X | O |
| | X | X | X |
| | X | X | X |

CUBE ICE SETTING:
 AGITATION ON TIME: 2 SEC.
 OFF TIME: 60 MIN.

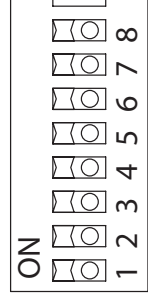
FOR PELLET CAPABLE DISPENSERS ONLY
 PELLET ICE SETTING:
 AGITATION ON TIME: 4 SEC.
 OFF TIME: 150 MIN.

SWITCH 1 : "LOW ICE" LED INDICATOR
 SWITCH 2 : "LOW ICE" ALARM

SWITCHES 3-4 : AGITATION "ON TIME"
 SWITCHES 5-8 : AGITATION "OFF TIME"

| SWITCH NUMBER | AGITATION |
|---------------|-----------|
| 3 | ON TIME |
| O | 1 SECOND |
| O | 2 SECOND |
| X | 3 SECOND |
| X | 4 SECOND |

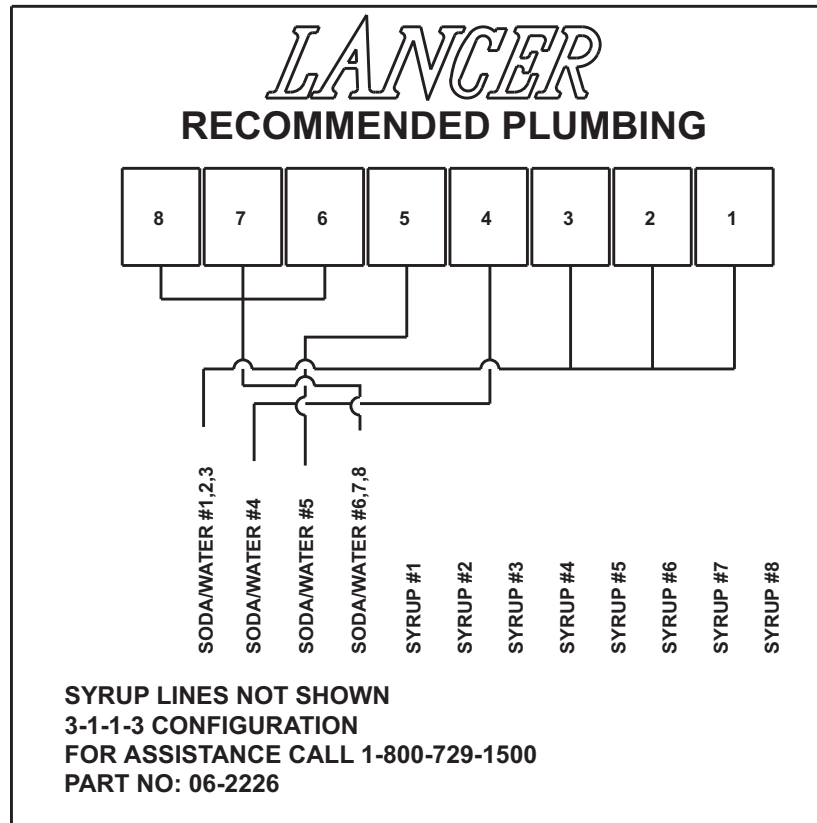
| |
|---------|
| X = ON |
| O = OFF |



SLIDE SWITCHES:
 SLIDE SWITCH UP TO TURN "ON"
 SLIDE SWITCH DOWN TO TURN "OFF"

LED INDICATORS
 D3-ON WHEN ICE DISPENSE SWITCH IS CLOSED
 D4-ON WHEN LID IS CLOSED
 D5-ON WHEN +5VDC IS AVAILABLE
 D6-ON WHEN +32VDC IS AVAILABLE
 D7-FLASHES WHEN ICE IS LOW
 D8-ON WHEN TRAP DOOR SOLENOID IS OPEN
 D9-ON WHEN MOTOR IS ON

6.8 PLUMBING DIAGRAM



7. DISPENSER DISPOSAL



To prevent possible harm to the environment from improper disposal, recycle the unit by locating an authorized recycler or contact the retailer where the product was purchased. Comply with local regulations regarding disposal of the refrigerant and insulation.

LANCER[®]

Lancer Corp.

800-729-1500

Technical Support/Warranty: 800-729-1550

custserv@lancercorp.com

lancercorp.com