



TURBO CARBONATOR LANCER INSTALLATION GUIDE



FOR QUALIFIED INSTALLER ONLY. This basic Installation Sheet is an initial release. If a complete Operations Manual (for the unit being installed) is required or needed, please refer to the Lancer web site (lancercorp.com) for immediate access, or for your convenience, scan this QR code with a mobile device (app required) for immediate access. Contact Lancer Customer Service for assistance as required.

TURBO CARBONATOR

- 85-1923-00 Carbonator, 115V, VCV, Diagnostic
- 85-1923-01 Carbonator, 115V, VCV, Diagnostic, Insulated
- 85-1923-02 Carbonator, 115V, VCV, Diagnostic, Tee
- 85-1923-07 Carbonator, 115V, VCV, Diagnostic, Polished
- 85-1924-00 Carbonator, 230V, VCV, Diagnostic
- 85-1924-01 Carbonator, 230V, VCV, Diagnostic, Insulated
- 85-1924-06 Carbonator, 230V, VCV, Diagnostic, Reset

SPECIFICATIONS

<p>DIMENSIONS Width: 12 1/4 inches (311 mm) Depth: 15 1/4 inches (387 mm) Height: 11 1/2 inches (292 mm)</p> <p>ELECTRICAL 115 VAC / 60 Hz / 6.3 Amps 230 VAC / 56-60 Hz / 3.5/3 Amps</p>	<p>WEIGHT Shipping: 33.5 lbs (15.2 kg) Empty: 31.1 lbs (14.1 kg) Operating: 45.3 lbs (20.5 kg)</p> <p>MOTOR 1/3 Horsepower (HP)</p> <p>FITTINGS Water for carbonator inlet: 3/8" s.a.e. Male Flare CO2 inlet: 1/4" s.a.e. Male Flare</p>	<p>BACKFLOW PREVENTER: Max 130° F (54° C) Max 200 PSIG (0.138 MPA) ASSE 1022 Compliant</p> <p>TANK OPERATING CAPACITY: 215 Ounces (6.4 L)</p> <p>PUMP 125 Gallons Per Hour (GPH) (473 Liters Per Hour (LPH))</p>
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TIMEOUT FEATURE: The carbonator is designed with a Timeout feature for self-protection. If the carbonator runs for longer than three minutes without the demand for water being met, the carbonator will shut down. On newer units, an automatic retry feature can be enabled to allow self-recovery within 3 hours.

THEORY OF OPERATION


A carbonator is a device designed to dissolve carbon dioxide gas (CO2) in water, producing carbonated water. CO2 gas is delivered through a regulator to the carbonator tank. Simultaneously, plain water is pumped into the tank. The CO2 gas, under pressure, dissolves in the water and the result is carbonated water. When the level of carbonated water reaches a pre-determined point, the liquid level sensing device (inside the tank) signals the liquid level control module which, in turn, shuts off the pump motor. As carbonated water is drawn from the tank, the level of carbonated water will drop. At a certain point, the liquid level sensing device recognizes the drop in the level and turns on the pump motor which replenishes the amount of carbonated water that has been taken out of the tank.




Certified
< 0.25 weighted
average percent lead



1. IMPORTANT SAFETY INFORMATION

	<p>WARNING CARBON DIOXIDE (CO₂) DISPLACES OXYGEN. 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. CO₂ IS HEAVIER THAN AIR. IT IS A COLORLESS, NON-COMBUSTIBLE GAS WITH A FAINTLY PUNGENT ODOR. HIGH PERCENTAGES OF CO₂ MAY DISPLACE OXYGEN IN THE BLOOD; PROLONGED EXPOSURE TO CO₂ MAY BE HARMFUL. PERSONNEL EXPOSED TO HIGH CONCENTRATIONS OF CO₂ GAS WILL EXPERIENCE TREMORS WHICH ARE FOLLOWED RAPIDLY BY LOSS OF CONSCIOUSNESS AND SUFFOCATION.</p> <p>ADVERTENCIA DIOXYDE DE CARBONE (CO₂) DÉPLACE L'OXYGÈNE. ATTENTION STRICTE DOIT ÊTRE OBSERVÉE DANS LA PRÉVENTION DES FUITES DE GAZ DE CO₂ DANS LE SYSTÈME DE CO₂ ET DE BOISSONS GAZEUSES ENTIER. SI UNE FUIITE DE GAZ DE CO₂ EST SOUPÇONNÉ, AÉREZ IMMÉDIATEMENT LA ZONE CONTAMINÉE AVANT DE TENTER DE RÉPARER LA FUIITE. CO₂ EST PLUS LOURD QUE L'AIR. IL EST UN GAZ NON INFLAMMABLE INCOLORE AVEC UNE ODEUR LÉGÈREMENT ÂCRE. DES POURCENTAGES ÉLEVÉS DE CO₂ PEUVENT DÉPLACER L'OXYGÈNE DANS LE SANG; EXPOSITION PROLONGÉE AU CO₂ PEUT ÊTRE NOCIF. LE PERSONNEL EXPOSÉ À DES CONCENTRATIONS ÉLEVÉES DE GAZ DE CO₂ FERONT L'EXPÉRIENCE DES TREMBLEMENTS QUI SONT SUIVIS RAPIDEMENT PAR LA PERTE DE CONSCIENCE ET LA SUFFOCATION.</p> <p>AVERTISSEMENT LE DIOXYDE DE CARBONE (CO₂) DÉPLACE L'OXYGÈNE. IL FAUT PORTER UNE ATTENTION TRÈS STRICTE À LA PRÉVENTION DES FUITES DE GAZ DE CO₂ DANS L'ENSEMBLE DU SYSTÈME DE CO₂ ET DE BOISSONS GAZEUSES. SI VOUS SOUPÇONNEZ UNE FUIITE DE GAZ DE CO₂, VENTILER IMMÉDIATEMENT L'ENDROIT CONTAMINÉ AVANT DE TENTER DE RÉPARER LA FUIITE. LE CO₂ EST PLUS LOURD QUE L'AIR. C'EST UN GAZ INCOLORE INCOMBUSTIBLE AYANT UNE LÉGÈRE ODEUR ÂCRE. DE FORTS POURCENTAGES 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 PEUT RESSENTIR DES TREMBLEMENTS, SUIVIS RAPIDEMENT DE LA PERTE DE CONNAISSANCE ET DE LA SUFFOCATION.</p>
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	<p>WARNING WHEN USING ELECTRIC APPLIANCES, BASIC PRECAUTIONS SHOULD ALWAYS BE FOLLOWED, INCLUDING THE FOLLOWING:</p> <ul style="list-style-type: none">A. READ ALL THE INSTRUCTIONS BEFORE USING THE APPLIANCE.B. DO NOT USE OUTDOORS.C. DO NOT UNPLUG BY PULLING ON THE CORD.D. FOR A GROUNDED APPLIANCE, CONNECT TO PROPERLY GROUNDED OUTLET ONLY. SEE GROUNDING INSTRUCTIONS.E. UNPLUG FROM OUTLET BEFORE SERVICING OR CLEANING. <p>ADVERTENCIA CUANDO SE UTILIZAN APARATOS ELÉCTRICOS, LAS PRECAUCIONES BÁSICAS SIEMPRE SE DEBEN SEGUIR, INCLUYENDO LAS SIGUIENTES:</p> <ul style="list-style-type: none">A. LEA TODAS LAS INSTRUCCIONES ANTES DE USAR EL APARATO.B. NO USAR EN EXTERIORES.C. NO DESENCHUFE TIRANDO DEL CORDÓN.D. PARA UN APARATO CON CONEXIÓN A TIERRA, CONEXIÓN A TIERRA ADECUADA TOMA SOLAMENTE. VEA CONEXIÓN A TIERRA INSTRUCCIONES.E. DESCONECTE DEL TOMACORRIENTE ANTES DE REPARAR O LIMPIAR. <p>AVERTISSEMENT DES PRÉCAUTIONS DE BASE DOIVENT TOUJOURS ÊTRE SUIVIES LORSQUE DES APPAREILS MÉNAGERS ÉLECTRIQUES SONT UTILISÉS, NOTAMMENT :</p> <ul style="list-style-type: none">A. LIRE TOUTES LES INSTRUCTIONS AVANT D'UTILISER L'APPAREIL.B. NE PAS UTILISER À L'EXTÉRIEUR.C. NE JAMAIS TIRER SUR LE CORDON POUR DÉBRANCHER L'APPAREIL.D. BRANCHER TOUT APPAREIL DEVANT ÊTRE MIS À LA TERRE UNIQUEMENT SUR UNE PRISE AVEC MISE À LA TERRE. VOIR LES INSTRUCTIONS DE MISE À LA TERRE.E. DÉBRANCHER L'APPAREIL DE LA PRISE AVANT DE LE RÉPARER OU DE LE NETTOYER.
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1.1 INSTALLATION INSTRUCTIONS

Select a level, well-ventilated, accessible location convenient to water and electrical supply, which can support a weight of 100 lbs (45.3 kg).

2. ELECTRICAL REQUIREMENTS

2.1 ELECTRICAL WARNING

WARNING 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. THIS UNIT MUST BE PROPERLY ELECTRICALLY GROUNDED TO AVOID POSSIBLE FATAL ELECTRICAL SHOCK OR SERIOUS INJURY TO THE OPERATOR. 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 POWER SUPPLY MUST HAVE A SEPARATE ELECTRICAL CIRCUIT. DO NOT USE EXTENSION CORDS. 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 POWER TO THE DISPENSER BEFORE ATTEMPTING ANY INTERNAL MAINTENANCE. 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!

IN THE EVENT OF MALFUNCTION OR BREAKDOWN, GROUNDING PROVIDES A PATH OF LEAST RESISTANCE FOR ELECTRIC CURRENT TO REDUCE THE RISK OF ELECTRIC SHOCK. THIS APPLIANCE IS EQUIPPED WITH A CORD HAVING AN EQUIPMENT GROUNDING PLUG. THE PLUG MUST BE PLUGGED INTO AN APPROPRIATE OUTLET THAT IS PROPERLY INSTALLED AND GROUNDED IN ACCORDANCE WITH ALL LOCAL CODES AND ORDINANCES.

ADVERTENCIA ELÉCTRICA 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. ESTA UNIDAD DEBE ESTAR DEBIDAMENTE CONECTADO A TIERRA PARA EVITAR POSIBLES CHOQUES ELÉCTRICOS MORTALES O LESIONES GRAVES AL OPERADOR. 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 SERVICIO DE LOS COMPONENTES INTERNOS DE LA CAJA DE CONTROL ELÉCTRICO DEBE CONFÍARSE EXCLUSIVAMENTE A PERSONAL CALIFICADO. ASEGÚRESE DE QUE TODAS LAS LÍNEAS DE AGUA ESTÉN AJUSTADAS Y LAS UNIDADES ESTÉN SECAS ANTES DE HACER CONEXIONES ELÉCTRICAS.

EN CASO DE MAL FUNCIONAMIENTO O AVERÍA, CONEXIÓN A TIERRA PROPORCIONA UNA VÍA DE MENOR RESISTENCIA PARA LA CORRIENTE ELÉCTRICA PARA REDUCIR EL RIESGO DE DESCARGA ELÉCTRICA. ESTE APARATO ESTÁ EQUIPADO CON UN CABLE QUE TIENE UN TIERRA DEL EQUIPO DE ENCHUFE. EL ENCHUFE DEBE CONECTARSE A UN TOMACORRIENTE ADECUADO QUE ESTÁ INSTALADO Y CONECTADO A TIERRA DE ACUERDO CON TODOS LOS CÓDIGOS LOCALES Y ORDENANZAS.

AVERTISSEMENT ÉLECTRIQUE 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. L'UNITÉ DOIT ÊTRE MISE À LA TERRE ÉLECTRIQUEMENT POUR ÉVITER UNE DÉCHARGE ÉLECTRIQUE MORTELLE OU DES BLESSURES GRAVES POSSIBLES À L'OPÉRATEUR. LE BLOC D'ALIMENTATION DOIT ÊTRE MIS À LA TERRE ÉLECTRIQUEMENT CORRECTEMENT POUR ÉVITER DES BLESSURES GRAVES OU UNE DÉCHARGE ÉLECTRIQUE MORTELLE. LE CORDON D'ALIMENTATION A UNE FICHE À TROIS BRANCHES MISE À LA TERRE. SI AUCUNE PRISE DE COURANT ÉLECTRIQUE À TROIS TROUS N'EST DISPONIBLE, UTILISEZ UNE MÉTHODE APPROUVÉE POUR METTRE L'UNITÉ À LA TERRE. RESPECTEZ TOUS LES CODES ÉLECTRIQUES LOCAUX LORSQUE VOUS FAITES DES CONNEXIONS. CHAQUE SOURCE D'ALIMENTATION DOIT AVOIR UN CIRCUIT ÉLECTRIQUE SÉPARÉ. N'UTILISEZ PAS DE CORDONS PROLONGATEURS. NE BRANCHEZ PAS PLUSIEURS APPAREILS ÉLECTRIQUES À LA MÊME PRISE DE COURANT. L'INTERRUPTEUR À CLÉ NE COUPE PAS LA TENSION SECTEUR AU TRANSFORMATEUR PRIMAIRES. DÉCONNECTEZ TOUJOURS L'ALIMENTATION EN ÉLECTRICITÉ À LA DISTRIBUTRICE AVANT DE FAIRE DE L'ENTRETIEN INTERNE. 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!

ADVENANT UNE DÉFAILLANCE OU UN BRIS, LA MISE À LA TERRE FOURNIT UN TRAJET DE MOINDRE RÉSTANCE POUR LE COURANT ÉLECTRIQUE AFIN DE RÉDUIRE LE RISQUE DE CHOC ÉLECTRIQUE. CET APPAREIL EST ÉQUIPÉ D'UN CORDON AYANT UNE FICHE DE MISE À LA TERRE. LA FICHE DOIT ÊTRE BRANCHÉE SUR UNE PRISE APPROPRIÉE CORRECTEMENT INSTALLÉE ET MISE À LA TERRE CONFORMÉMENT AUX CODES AUX RÉGLEMENTS LOCAUX.



2.2 GROUNDING INSTRUCTIONS



GROUNDING WARNING IMPROPER CONNECTION OF THE EQUIPMENT-GROUNDING CONDUCTOR CAN RESULT IN A RISK OF ELECTRIC SHOCK. THE CONDUCTOR WITH INSULATION HAVING AN OUTER SURFACE THAT IS GREEN, WITH OR WITHOUT YELLOW STRIPS, IS THE EQUIPMENT-GROUNDING CONDUCTOR. IF REPAIR OR REPLACEMENT OF THE CORD OR PLUG IS NECESSARY, DO NOT CONNECT THE EQUIPMENT GROUNDING CONDUCTOR TO A LIVE TERMINAL. CHECK WITH A QUALIFIED ELECTRICIAN OR SERVICEMAN IF THE GROUNDING INSTRUCTIONS ARE NOT COMPLETELY UNDERSTOOD, OR IF IN DOUBT WHETHER THE APPLIANCE IS PROPERLY GROUNDED. DO NOT MODIFY THE PLUG PROVIDED WITH THE APPLIANCE. IF IT WILL NOT FIT THE OUTLET, HAVE A PROPER OUTLET INSTALLED BY A QUALIFIED ELECTRICIAN.

ADVERTENCIA, PUESTA A TIERRA LA CONEXIÓN INCORRECTA DEL CONDUCTOR DE TIERRA DEL EQUIPO PUEDE OCASIONAR UN RIESGO DE DESCARGA ELÉCTRICA. EL CONDUCTOR CON AISLAMIENTO QUE TIENE UNA SUPERFICIE EXTERIOR VERDE, CON O SIN FRANJAS AMARILLAS, ES EL CONDUCTOR DE PUESTA A TIERRA. SI LA REPARACIÓN O REEMPLAZAR EL CABLE O EL ENCHUFE ES NECESARIO, NO CONECTE EL EQUIPO CONDUCTOR A TIERRA A UN TERMINAL CON CORRIENTE. CONSULTE A UN ELECTRICISTA CALIFICADO O TÉCNICO DE SERVICIO SI LAS INSTRUCCIONES DE CONEXIÓN A TIERRA NO SE ENTIENDEN COMPLETAMENTE, O SI EN DUDAN DE SI EL APARATO ESTÁ CORRECTAMENTE CONECTADO A TIERRA. NO MODIFIQUE EL ENCHUFE QUE SE PROPORCIONA CON EL APARATO. SI NO ENTRA EN LA TOMA, PIDA A UN ELECTRICISTA QUE INSTALE UNA ELECTRICISTA CALIFICADO.

EXIGENCES DE MISE À LA TERRE UN BRANCHEMENT INAPPROPRIÉ DU CONDUCTEUR DE MISE À LA TERRE PEUT CAUSER UN RISQUE DE CHOC ÉLECTRIQUE. LE CONDUCTEUR DE MISE À LA TERRE EST CELUI DONT L'ISOLANT A UNE SURFACE EXTÉRIEURE VERTE (AVEC OU SANS BARRES JAUNES). S'IL EST NÉCESSAIRE DE RÉPARER OU DE REMPLACER LE CORDON OU LA FICHE, NE PAS BRANCHER LE CONDUCTEUR DE MISE À LA TERRE SUR UN TERMINAL SOUS TENSION. FAIRE APPEL À UN ÉLECTRICIEN OU UN RÉPARATEUR QUALIFIÉ SI LES INSTRUCTIONS DE MISE À LA TERRE NE SONT PAS COMPLÈTEMENT COMPRISÉS OU SI L'APPAREIL NE SEMBLE PAS ÊTRE MIS À LA TERRE DE LA MANIÈRE APPROPRIÉE. NE JAMAIS MODIFIER LA FICHE FOURNIE AVEC L'APPAREIL. SI ELLE NE S'INSÈRE PAS DANS LA PRISE, DEMANDER À UN ÉLECTRICIEN QUALIFIÉ D'INSTALLER UNE PRISE APPROPRIÉE.

- A. Check the serial number plate for correct electrical requirements of the unit. Do not plug into the electrical outlet unless the current shown in the serial number plate agrees with local current available.
- B. A separate electrical circuit must be supplied for each carbonator.
- C. Do not use extension cords or “gang” together with other electrical devices on the same outlet.

3. OPERATING INSTRUCTIONS

- A. Before installing, make any desired configuration changes. Refer to configuration section.
- B. Connect 3/8” flexible pressure tubing, or larger, from water supply to pump inlet. Do not connect to a hot water or soft water source. A shutoff valve and screen (minimum 100 mesh), should be installed in water supply line to carbonator. A water filter may also be necessary in water supply line to carbonator, depending on local conditions. Water pressure entering the pump should be at a minimum of 25 PSIG (0.172 MPA); recommended water pressure is 50 PSIG (0.345 MPA), and should never exceed CO2 pressure. If necessary, install a regulator.
- C. Connect CO2 pressure supply to CO2 inlet on carbonator tank, with normal operating pressure at 105 PSIG (0.720 MPA). Do not exceed 120 PSIG (0.830 MPA). If excessive foam in drink is present, reduce CO2 pressure to approximately 90 PSIG (0.620 MPA).
- D. Connect carbonator water outlet to dispensing system. If only one tank outlet is used, cap remaining with stainless steel cap and flare washer, PNs 01-0212 and 05-0017. To avoid contamination of potable liquids, do not connect copper tubing or fitting between the discharge fitting of carbonator tank and dispenser.
- E. Open pressure relief valve by moving yellow lever to vertical position.
- F. To remove air, turn water supply on and fill tank until water can be seen coming out of pressure relief valve.
- G. Close pressure relief valve by moving yellow lever to horizontal position.
- H. Turn on CO2 supply and adjust to correct pressure.
- I. If electrical requirements have been met, plug in carbonator.
- J. Check for CO2 and water leaks.
- K. Open a dispensing valve. Allow carbonator to cycle several times, turning motor **OFF** and **ON** to flush system.

4. USER MAINTENANCE INSTRUCTIONS

4.1 INSPECTIONS

- A. Periodically inspect for CO2 or water leaks. Perform maintenance as necessary.
- B. Inspect and clean pump strainer.

5. CLEANING AND REPLACEMENT

5.1 CO2 CHECK VALVE

- A. Unplug power cord.
- B. Shut water supply OFF to pump.
- C. Turn CO2 supply OFF and set CO2 pressure regulator at 0 PSIG.

5.1 CO2 CHECK VALVE (CONTINUED)

D. Disconnect CO2 supply line from CO2 check valve.



WARNING DO NOT PROBE VALVE WITH ANY OBJECT.

ADVERTENCIA NO HAGA PRUEBAS VÁLVULA CON UN OBJETO.

AVERTISSEMENT NE JAMAIS SONDER LE CLAPET AVEC UN OBJET QUELCONQUE.

- E. Cover end of check valve with soap suds. If check valve is defective, gas bubbles will appear. If a leak is detected, continue with the following steps.
- F. Release pressure in tank, using relief valve.
- G. Disassemble check valve body and components. Inspect spring and o-rings. Replace as required.
- H. Reassemble and reinstall check valve.
- I. Reconnect CO2 supply line to CO2 check valve.
- J. Follow start up procedure to put carbonator back into operation.

5.2 BACKFLOW PREVENTER



WARNING IF THE FIRST CHECK ON THE BACKFLOW PREVENTER FAILS, CARBONATED WATER WILL LEAK FROM THE VENT ON THE VALVE. DO NOT DISASSEMBLE THE BACKFLOW PREVENTER. REPLACE BY ORDERING PART NUMBER 17-0611. DO NOT DISABLE THE BACKFLOW PREVENTER.

ADVERTENCIA SI LA PRIMERA COMPROBACIÓN DE LA VÁLVULA ANTIRRETORNO FALLA, AGUA CON GAS SE ESCAPARÁ DE LA REJILLA DE VENTILACIÓN DE LA VÁLVULA. NO DESARME LA VÁLVULA ANTIRRETORNO. REEMPLAZAR POR PEDIR EL NÚMERO DE PIEZA 17-0611. NO DESACTIVE LA VÁLVULA ANTIRRETORNO.

AVERTISSEMENT SI LE PREMIER CONTRÔLE DU DISCONNECTEUR HYDRAULIQUE ÉCHOUE, DE L'EAU CARBONÉE FUIRA PAR L'ÉVENT DU CLAPET. NE JAMAIS DÉSSASSEMBLER LE DISCONNECTEUR HYDRAULIQUE. COMMANDER UN NOUVEAU DISCONNECTEUR HYDRAULIQUE, N° DE PIÈCE 17-0611. NE JAMAIS METTRE LE DISCONNECTEUR HYDRAULIQUE HORS FONCTION.

- A. Unplug power cord.
- B. Shut water supply **OFF** to pump.
- C. Set CO2 pressure at 100 to 125 PSIG (0.690 to 0.860 MPA).
- D. Disconnect stainless steel water line from water inlet check valve. Do not loosen check valve assembly.
- E. Cover end of check valve with soap suds. If check valve is defective, gas bubbles will appear. If a leak is detected, continue with the following steps. If no leak is detected, proceed to Step I below.
- F. Turn CO2 pressure **OFF**. Release pressure in tank, using relief valve.
- G. Replace the backflow preventer.
- H. Reconnect stainless steel line to water inlet check valve.
- I. Follow start up procedure to put carbonator back into operation.

5.3 PUMP STRAINER SCREEN

- A. Unplug power cord.
- B. Shut water supply **OFF** to pump.
- C. Unscrew brass plug on pump, and remove strainer from pump.
- D. Inspect and clean, or replace, strainer screen.
- E. Reinstall strainer, and tighten brass plug.
- F. Turn water supply **ON**.
- G. Check for leaks. If a leak is detected, carefully tighten brass plug.
- H. Plug power cord into electrical outlet.

5.4 REPLACING PROBE

- A. Unplug power cord.
- B. Shut water and CO2 gas supplies **OFF**.
- C. Relieve pressure in tank using relief valve.
- D. Remove cover and unplug probe leads from PC board.
- E. Unscrew probe from top of tank.
- F. Screw new probe into top of tank. Be sure to install white plastic washer as a water tight seal will not be obtained without the washer.
- G. Connect probe leads to PC board as follows:
 - Green** G
 - Black** LO
 - White** HI
- H. Slide probe strain relief into slot and replace cover.
- I. Follow start-up procedure for putting carbonator back into operation.

5.5 REPLACING PC BOARD

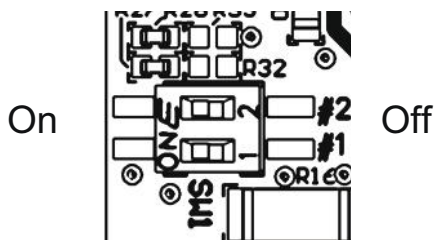
- A. Unplug power cord.
- B. Remove cover from PC board enclosure.
- C. Unplug probe, power cord and motor cord leads from PC board.
- D. Remove PC board assembly.
- E. Configure new board, refer to configuration section.
- F. Install new PC board and secure with screws.
- G. Connect push leads and secure to PC board as follows:

<u>Probe</u>	<u>Power Cord</u>	<u>Motor Cord</u>
Green G	Black 1	Black 3
Black LO	White 2	White 4
White HI		

- H. Replace cover.
- I. Plug in power cord.
- J. Test diagnostic switch connector.

6. CONFIGURATION

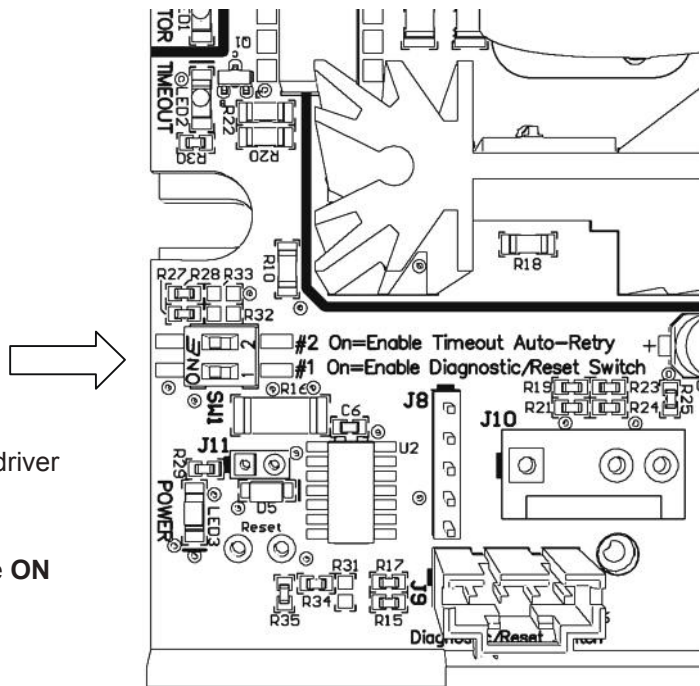
The new carbonator PCB assemblies 64-5076 (230V) and 64-5081 (115V) have two configuration switches, located between the Power and Timeout LEDs:



These switches can be switched with a small screwdriver or a ballpoint pen. Toward the edge of the board is **ON**, toward the center is **OFF**.

The default setting is with both of the switches in the **ON** position. This allows for either a manual reset, by pressing the test/reset button on the outside of the carbonator, or automatic reset.

If one option is preferred over the other, enable their position by turning the switch to the **ON** position and the other to the **OFF** position.



	ON	OFF
Pos 1 — Enable Diagnostic/Reset Switch	Switch must be connected to J9 Pressing and holding the switch connected to J9 will test the motor. Releasing the switch will reset any timeout.	J9 may be empty (no jumpers required). Any connected switch is ignored.
Pos 2 — Enable Timeout Auto-Retry	If the tank fails to fill within 3 minutes, the carbonator times out and will attempt to fill itself every 15 minutes for 3 hours. If it succeeds, normal operation will resume. The timeout LED will blink slowly within the 3 hours, then quickly after.	If the tank fails to fill within 3 minutes, the carbonator times out and never retries. The timeout LED will turn on continuously when the carbonator times out.

Basic Go/No Go Carbonator Control Test

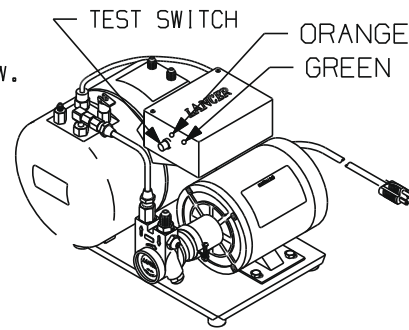
Part Number 06-1236/01 (shown below) is found on the cover of the carbonator assembly. It provides a basic troubleshooting procedure to determine if the liquid level control is operating properly. The procedure will help isolate problems to the probe, motor or PC Board.

NOTE: IN CASE OF CARBONATION PROBLEMS, VERIFY CARBONATOR OPERATION BY DRAWING DRINKS. IF PROBLEMS PERSIST, FOLLOW THE STEPS LISTED BELOW.

STEP 1--OBSERVE GREEN LIGHT
OFF-----CHECK POWER SUPPLY
ON-----GO TO STEP 2

STEP 2--PUSH TEST SWITCH (WITH TANK EMPTY)
MOTOR STARTS-----REPLACE PROBE
MOTOR DOES NOT START AND ORANGE LIGHT ON--
REPLACE MOTOR
ORANGE LIGHT OFF-----REPLACE BOARD

STEP 3--IF MOTOR DOES NOT TURN OFF-----
REPLACE BOARD AND PROBE



LANCER
P.N. 06-1236/01

LANCER[®]

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