

# INSTRUCTION SHEET

## INSTALLATION INSTRUCTIONS

### SLIMLINE SOLD OUT RETROFIT KIT

#### PART NUMBER 82-3417

#### 1. CONTENTS OF KIT

<u>Part No.</u>	<u>Description</u>	<u>Quantity</u>
52-2766	PCB Assy, Slimline II, with Sold Out	1
52-2784	Harness, Flush/Speed, with Sold Out	1
52-2782	PCB Assy, Slimline, Motor Speed/Flush, with Sold Out	1
52-2279	Switch Assy, Reset, with Harness	2
82-2831	Sensor Assy, Low Level, OJ	2
52-2267	Harness Assy, Jumper, Low Level Sensor	2
06-2817	Label, Reset, Slimline II, with Sold Out	1
06-2337	Label, Low Level, Harness ID	2
30-9119	Bracket, Switch, Reset, Slimline II, with Sold Out	1
52-2793	Harness Assy, Jumper, Reset Switch	2
02-0155	O-Ring, 2-015, 97-0999	1
13-0176	Fitting, Bulkhead, Water Tight, HEYCO 3210	1
06-2818L	Label, Sold Out, Slimline, LH	1
06-2818R	Label, Sold Out, Slimline, RH	1
05-1338/01	Product Plate, Blank, Slimline	2
08-0004	Tubing, Concentrate	7 Inches
28-0549	Sheet, Instruction, Retrofit, Slimline, with Sold Out	1
28-0550	Sheet, Instruction, Operating, Slimline, with Sold Out	1
90-1065	Carton, Shipping, W/A-S Foam	1

**Items Required**

**Flat Blade Screwdriver**  
**Phillips Head Screwdriver**  
**Drill Bits, 1/8" and 5/8", or Uni-bit**  
**Center Punch**  
**Wire Ties**  
**Refractometer**

*Please refer to the Lancer web site ([www.lancercorp.com](http://www.lancercorp.com)) for information relating to Lancer Installation and Service Manuals, Instruction Sheets, Technical Bulletins, Service Bulletins, etc.*

#### 2. INSTALLATION PROCEDURE

- 2.1** *Before beginning this procedure, remove top cover and concentrate containers or Minute Paks® and completely flush both nozzles. Turn off or disconnect from water supply. Depressurize the system.*

**WARNING:**

**TURN KEY-SWITCH TO THE OFF POSITION AND DISCONNECT DISPENSER FROM POWER SOURCE BEFORE CONTINUING.**

**NOTE:**

For additional parts lists and illustrations, refer to Lancer Manual 28-0028/04.

#### 2.2 Installation

- A. Disassembly of Machine (see Figure 1). **NOTE:** *Set aside and retain all parts for reinstallation unless otherwise noted).*



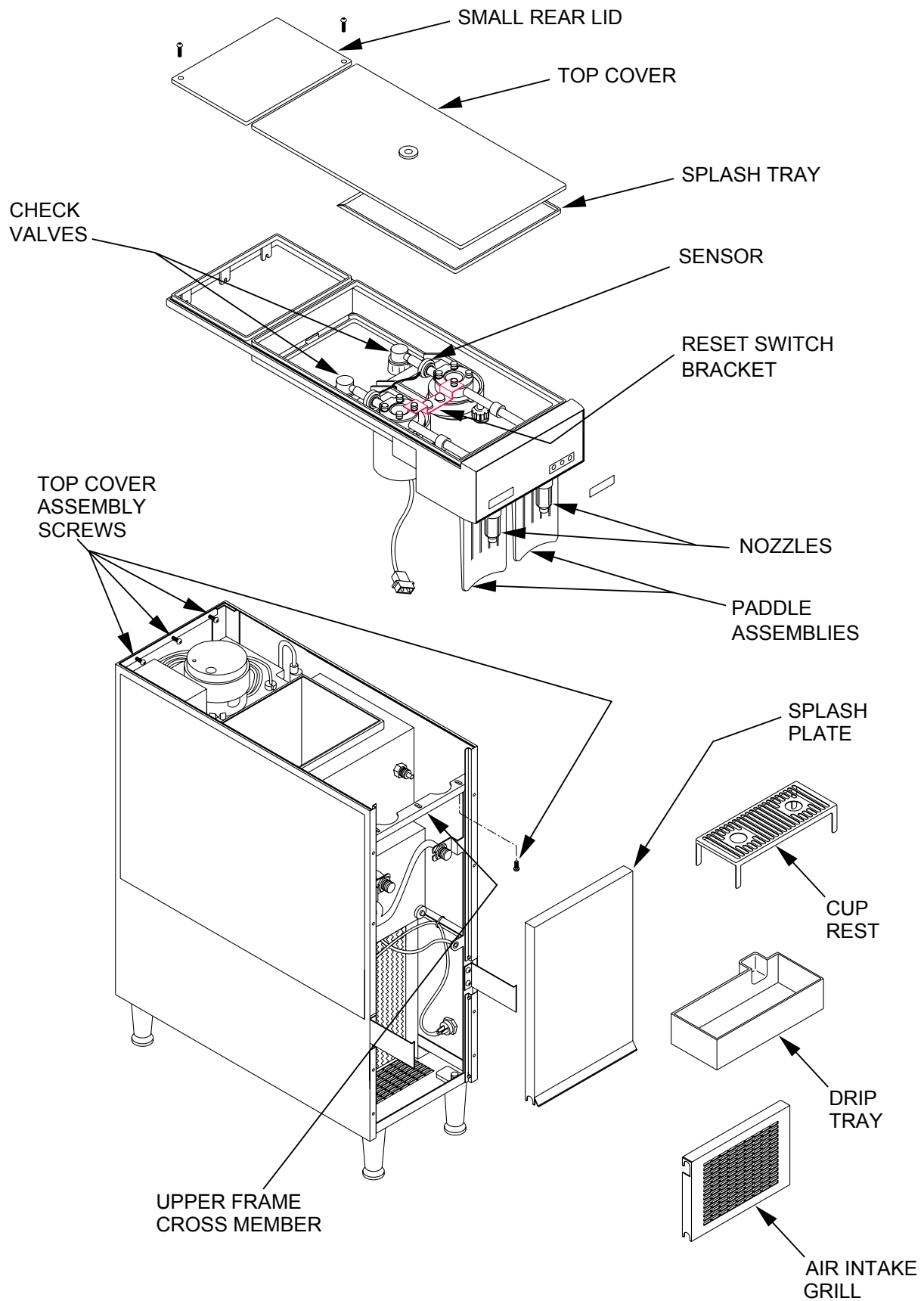
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**DATE:** 06/18/03  
**P.N.:** 28-0549



**Slimline II Dispenser Assembly, Major Components  
Figure 1**

1. Remove Splash Plate.
  2. Remove Cup Rest and Drip Tray.
  3. Remove Nozzles.
  4. Remove Paddle Assemblies.
  5. Remove the Air Intake Grille.
  6. Remove the small black plates that cover the Motor Speed adjustment holes and *discard*.
  7. Remove screws holding Small Rear Lid and remove Lid.
  8. Remove Splash Tray covering the Pump Assemblies.
  9. Remove the single (one) screw holding the Control Box Cover in place and remove the Cover by lifting up slightly and pulling straight out.
  10. Disconnect the Motor Speed/Flush Switch Harness from the Main Control PCB.
  11. Loosen the three (3) screws at the rear of the Top Cover Assembly.
  12. Remove the three (3) screws holding the Top Cover Assembly to the Upper Frame cross member near the locking nuts joining the solenoid outlets to the Spout Assemblies underneath the Top Cover Assembly.
  13. Unscrew the locking nuts joining the Solenoid outlets to the Spout Assemblies underneath the Top Cover Assembly. Take care not to lose the o-rings at the joint of the connection.
  14. Disconnect the Pump Motor harnesses, noting which is left and right (left = orange/black; right = white/black).
  15. Remove the Top Cover Assembly by lifting up at the front and rear of the unit.
  16. Lay the Top Cover Assembly upside down on a solid, clean surface.
  17. Remove the seven (7) screws holding the Lower Cover of the Top Cover Assembly and remove the Lower Cover along with the Motor Speed/Flush Switch PCB.
  18. Remove the Motor Speed/Flush Switch PCB from the Lower Cover by pulling the wire harness grommet up and away from the Cover and then sliding the Flush Switch out from the Cover. *This PCB will not be reused.*
  19. Temporarily secure the Solenoids to the upper frame cross member using wire ties.
  20. Disconnect all wire harnesses from the Main Control PCB.
  21. Remove the Main Control PCB by turning each of the plastic stand-offs 1/4 turn to the left with a flat-blade screwdriver, then pulling the PCB straight out from the Control Box. *This PCB will not be reused.*
- B. Preparation of Machine for Retrofit
1. Cut out the drill template from the instruction sheet (see Figure 13).
  2. With the Top Cover Assembly still laying upside down on the work surface, place the template between the Pump Housings as shown in Figure 2.
  3. Using a center punch or equivalent tool, mark the hole center onto the bottom surface of the Top Cover Assembly, and remove the template.
  4. Drill a pilot hole using a 1/8" drill bit at the location just marked to prevent cracking the top cover. Drill out the hole until the diameter equals 5/8". *Use care to not damage any components on the other side of the surface being drilled.* Deburr the edges of the hole.
  5. Locate the two (2) jumper harnesses for the Sensors (3-wire), the two (2) jumper harnesses for the Reset Switches (2-wire), the threaded bulkhead fitting and nut, and the o-ring. Place the o-ring over the threads on the bulkhead fitting.

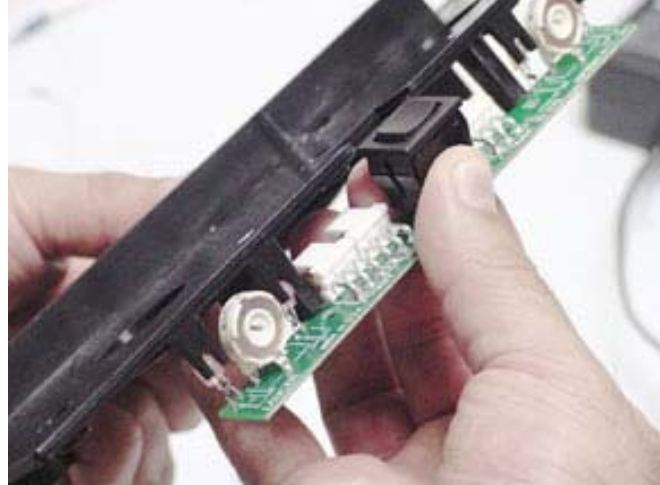


**Figure 2**

6. Remove the sealing nut from the bulkhead fitting. Starting with the jumper harnesses for the Sensors (3-wire), and doing one at a time, feed the male end of the harness first through the sealing nut and then through the fitting. Repeat for the Reset Switch jumper harnesses (2-wire). *Make sure the wire mesh is pushed down below the sealing nut.*
7. Locate the Harness ID Labels. Label each set of harnesses with a R and L on each end of the harness, so that a proper connection can be made once the harnesses are installed (see Figure 3).
8. Pull the harnesses through until there is approximately one inch (1") of wire exposed above the sealing nut and then tighten the sealing nut securely.



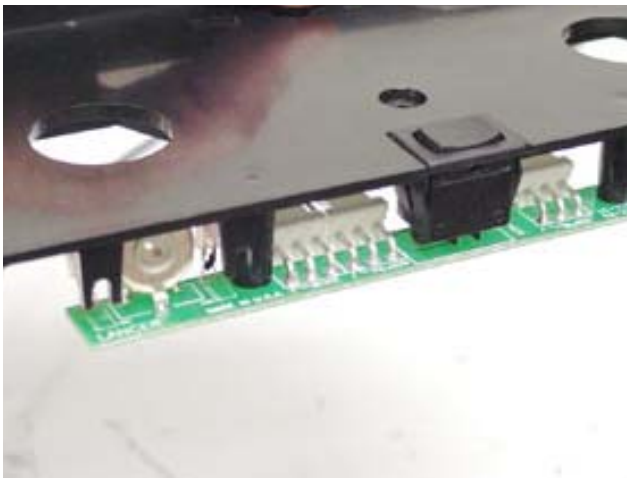
**Figure 3**



**Figure 4**

#### C. Installation of Sold Out Components

1. Locate the new Motor Speed/Flush Switch PCB and the new harness assembly (9-wire, with two connectors on each end).
  - a. Install the new PCB onto the Lower Cover in the same position as the old PCB, with the harness connectors pointed to the rear of the cover. Hold the PCB at an angle, making sure the LEDs are in position behind the u-shaped protrusions at the front of the Lower Cover, and slide the PCB into position (see Figure 4 and Figure 5). Take care to not distort or bend the LEDs.
  - b. Connect one end of the new harness to the PCB at the designated positions (6-pin to 6-pin, 3-pin to 3-pin), with the locking tabs of each housing facing down.
  - c. Press the grommet on the harness into position at the rear of the Cover.



**Figure 5**

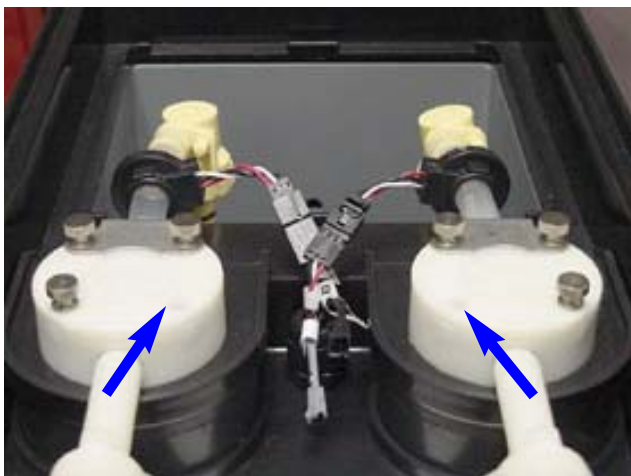


**Figure 6**

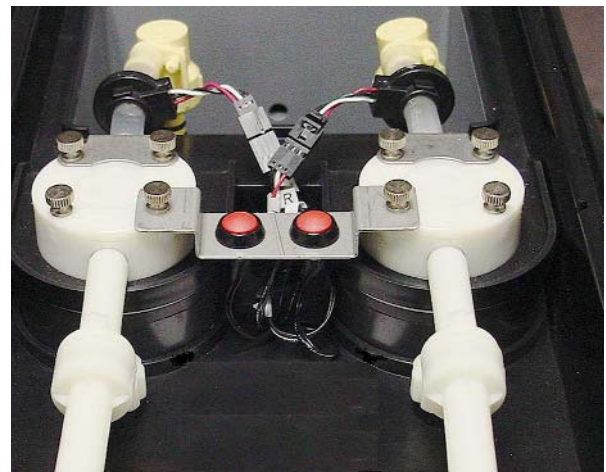
2. Replace the Lower Cover into position on the bottom of the Top Cover Assembly. Replace the seven (7) screws removed in Step 2.2.A.17 above.
3. Install the wire harness assembly (see Step 2.2.B.9 above) through the hole that was drilled in the Top Cover so that the threads of the bulkhead fitting are protruding through the bottom side of the Top Cover (see Figure 6). Secure the bulkhead fitting with the lock nut. Turn the Top Cover Assembly over.
4. Remove the Check Valves from the Concentrate Tubes.
  - a. Remove the concentrate tubes from the pump assemblies. Locate the length of new concentrate tubing included in the kit. Cut two pieces, so that each piece of tubing is 3 1/4 inch long. Install the new tubing onto the pump assemblies.
  - b. Locate the two Sensor Assemblies. Place one Sensor on each tube with the wires pointing inward. The Sensor may be very tight at first until it is past the end of the tube. Slide the Sensor to the middle of the tube.
  - c. Replace the Check Valves.
5. Connect the Left Sensor to the 3-wire jumper harness labeled L. Connect the Right Sensor to the 3-wire jumper harness labeled R.
6. Locate the Reset Switch Bracket and the two Reset Switch Assemblies. Mount the Reset Switches onto the Bracket using the nuts provided with the Switches as shown (see Figure 7).
7. Remove the two (2) thumbscrews from the Pump Assemblies indicated in Figure 8. Place the Reset Switch Bracket over the holes in the Pump Assemblies and replace the thumbscrews (see Figure 9). Tighten the thumbscrews hand tight only. Check the other thumbscrews to be sure they are hand tight also.



**Figure 7**



**Figure 8**



**Figure 9**

8. Connect the Left Reset Switch to the 2-wire jumper harness labeled L. Connect the Right Reset Switch to the 2-wire jumper harness labeled R.
9. Locate the new Main Control PCB. Mount the PCB in the same orientation as the old PCB, with the large heatsink on the right side of the Control Box. Turn each of the plastic standoffs 1/4 turn to the right to secure the PCB to the Control Box. Use care in handling the PCB.
10. Connect the Solenoid/Pump Harness (7-pin) to connector J3, the Paddle Sensor Harness

(4-pin) to connector J1, and the Power Harness (2-pin, from the transformer) to connector J4 on the new PCB (same positions as on old PCB, see Figure 14).

#### D. Final Assembly

1. Cut loose the wire ties holding the Solenoids in place (see Step 2.2.A.19).
2. Replace the Top Cover Assembly onto the unit, routing the Jumper Harnesses behind the upper frame cross member. Working from the front to the back, snap the lip on the stainless steel wrapper into the groove underneath the perimeter of the Top Cover.
3. Replace the three (3) screws securing the Top Cover to the upper frame cross member and tighten the three (3) screws at the rear of the Top Cover.
4. Reconnect the Solenoid outlets to the Spout Assemblies. Make sure the o-rings are in place at the junction of the parts.
5. Reconnect the Pump Motor Harnesses, noting which is left and right (see Step 2.2.A.14).
6. Connect the 6-pin housing of the Motor Speed/Flush Switch harness to connector J2 on the Main PCB. Connect the 3-pin housing to connector J9 on the Main PCB 9 (see Figure 14).
7. Connect the following to the Main PCB: Left Sensor Harness to connector J6, the Left Reset Switch Harness to connector J7, the Right Sensor Harness to connector J5, and the Right Reset Switch Harness to connector J8 (see Figure 14).
8. Replace the Control Box Cover and screw. Route the wires through the notch on the bottom left side of the control box. **Take care to not pinch any of the wire harnesses between the Cover and the Box.**
9. Replace the Small Rear Lid and secure with the screws.
10. Replace the Air Intake Grille.
11. Replace the Paddle Assemblies.
12. Replace the Nozzles.
13. Replace Splash Plate, Drip Tray, and Cup Rest.
14. Restore power to the Unit.
15. Turn on water supply to the unit.
16. Flush both Nozzles using the Flush Switch to purge air from the water lines. Check for leaks at the points that were disassembled during this procedure.
17. Replace the Splash Tray over the Pump Assemblies.
18. Locate the Reset Switch Label. Peel the release paper from the Label and place the Label on the Splash Tray as shown (see Figure 10).
19. Locate the clear Label Plates and the two Product Out Labels. These replace the black plates that were removed in Step 2.2.A.6. Place a Label on each Plate, with the holes in the Label centered over the areas on the Plate as shown (see Figure 11).
20. Insert the Plate with the orange Label into the side with the glass of orange juice, and insert the other Plate into the side with the glass of lemonade (see Figure 12).



Figure 10



Figure 11

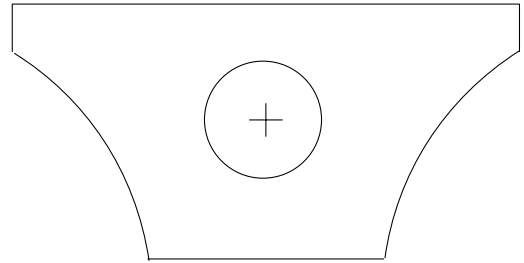
E. Refer to Instruction Sheet 28-0550 for loading/filling of concentrate and Operating Procedures.

**NOTE:**

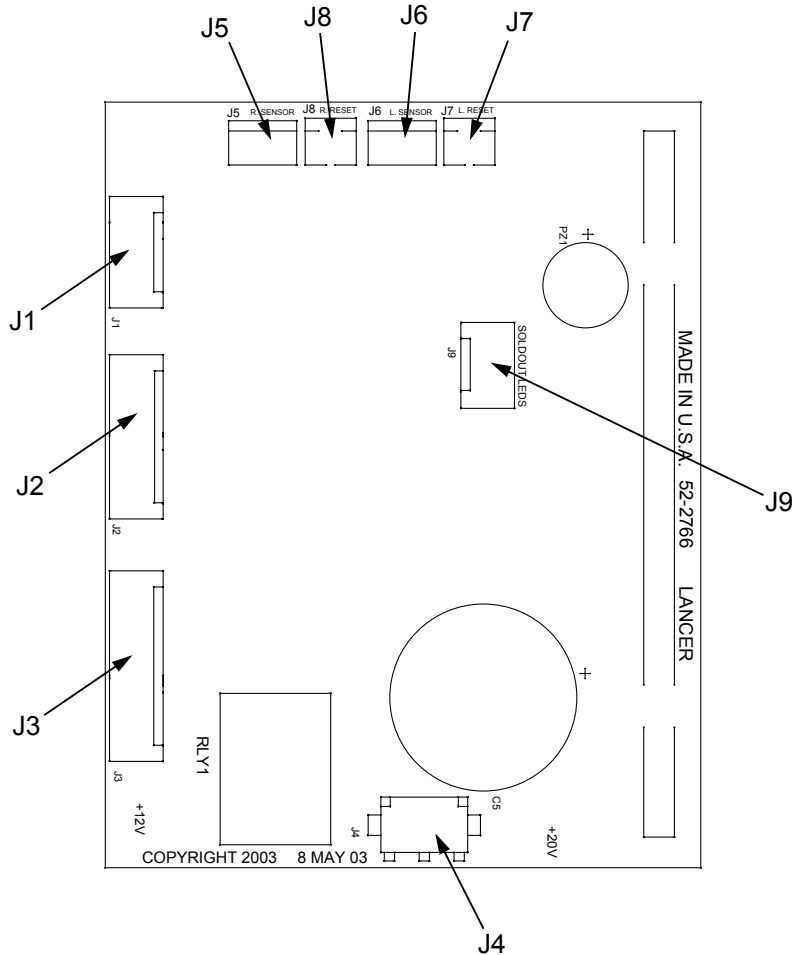
Once concentrate has been loaded, the unit MUST be brixed. Refer to Section 1.10 in the Slimline Manual, 28-0028/04, available on the Lancer web site ([www.lancercorp.com](http://www.lancercorp.com)).



**Figure 12**



**Drill Template (Actual Size)  
Figure 13**



**Figure 14**

# SLIMLINE SOLD OUT RETROFIT KIT

## PART NUMBER 82-3417

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### *NOTES*

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