

INSTALLATION AND SERVICE MANUAL FOR LANCER *LEV*® FILL STATION (LFS) (PART NUMBER 85-0084-01)



NOTICE TO USERS:

THIS DISPENSER UNIT IS INTENDED FOR IN-DOOR USE ONLY.

This manual is an initial issue.

LANCER

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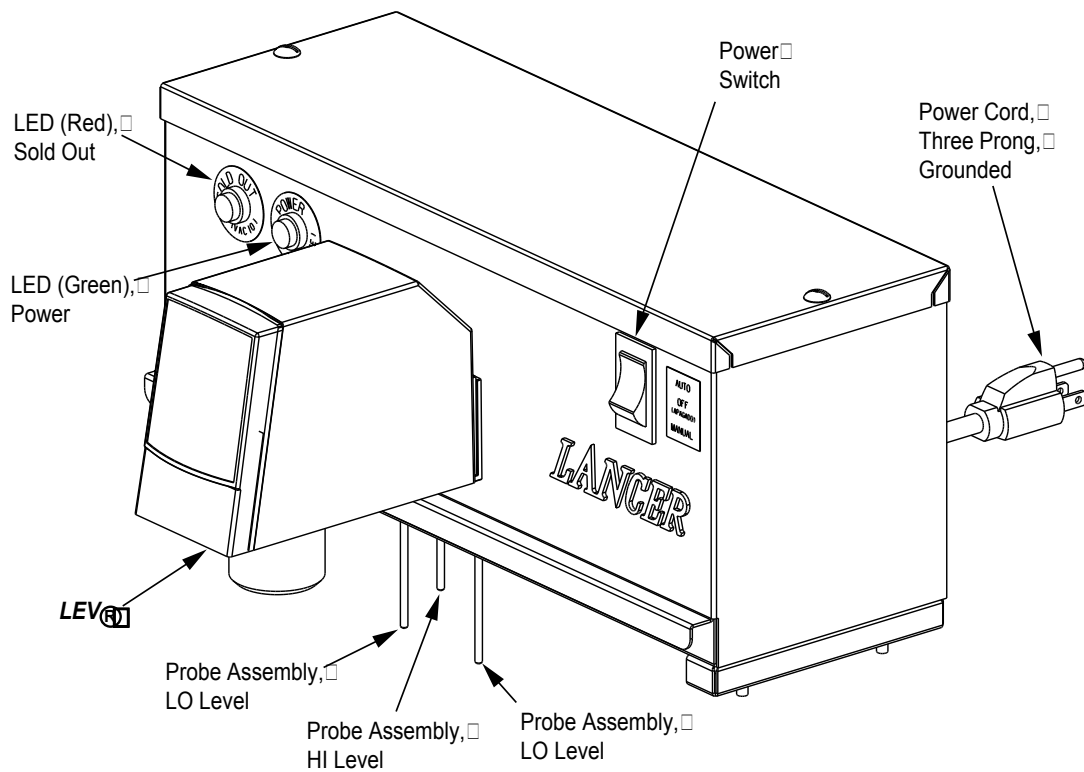
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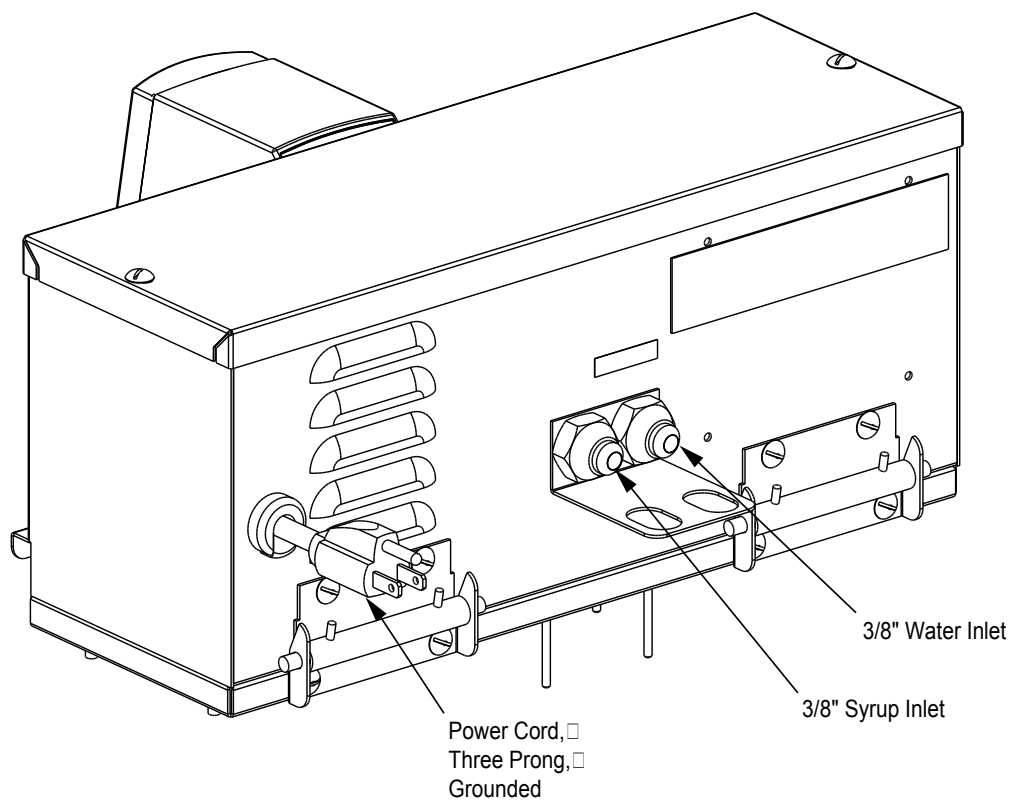
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Introduction to the Lancer LEV® Fill Station (LFS)



Front View, LFS



Rear View, LFS

1. SPECIFICATIONS

SHIPPING WEIGHT	Nine (9) pounds (4.1 kg)
DIMENSIONS	14.5" x 5.5" x 6.5" (36.83 cm x 13.97 cm x 16.51 cm)
ELECTRICAL	115V/60Hz/1.0A (Power Cord is provided with three prong grounded plug)
INLET SYRUP CONNECTIONS	3/8 inch Male Flare
INLET WATER CONNECTIONS	3/8 inch Male Flare
FLOW	4.5 ounces per second



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UL STD 471



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CERTIFIED TO
CAN/CSA
STD C22.2
NO. 120 C



2. INSTALLATION

2.1 RECEIVING

Each unit is completely tested under operating conditions and thoroughly inspected before shipment. At the time of shipment, the carrier accepts the unit and any claim for damage must be made with the carrier. Upon receiving unit(s) 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 a claim with the carrier.

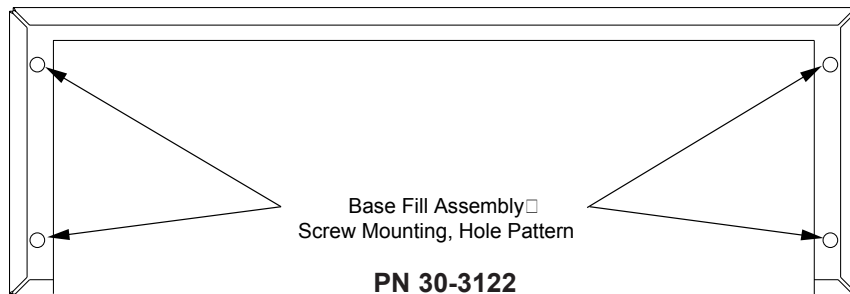
2.2 UNPACKING

- Carefully remove unit from shipping carton.
- Inspect unit for concealed damage. If damage exists, notify delivering carrier note and file a claim against the carrier.

2.3 INSTALLATION

WARNING

DISCONNECT SLUSH MACHINE FROM POWER SOURCE BEFORE BEGINNING INSTALLATION OF THE LANCER LEV® FILL STATION (LFS) TO AVOID POSSIBLE FATAL ELECTRICAL SHOCK OR SERIOUS INJURY.



PN 30-3122
Figure 1

Mounting

- The dispenser is **designed for in-door use ONLY** and to be mounted on unit, in a well lighted, visible area.

CAUTION

FAILURE TO MAINTAIN PROPER AIR CLEARANCE WILL CAUSE THE UNIT TO OVERHEAT AND WILL RESULT IN PREMATURE COMPONENT FAILURE.

- Locate slush machine with approximately five (5) inches clearance between a wall and the back of the LFS unit. Follow slush machine manufacturer's installation instructions for side and rear ventilation requirements.
- If required, locate and mark four (4) holes using base of fill station (see Figure 1).
- Cover hopper with lid before drilling holes.

CAUTION

ENSURE HOLES ARE CAREFULLY DRILLED TO AVOID DRILLING TOO DEEP AND THEREBY POSSIBLY DAMAGING REFRIGERATION LINES.

- Drill four (4) holes using a #19 drill bit (0.166) drill bit.

- F. Using the ROLOC screws provided (PN 04-0558), attach the LFS to the slush machine.

2.4 CONNECTING TO ELECTRICAL POWER

WARNING

THIS UNIT MUST BE PROPERLY ELECTRICALLY GROUNDED TO AVOID POSSIBLE FATAL ELECTRICAL SHOCK OR SERIOUS INJURY TO THE OPERATOR. THE POWER CORD IS PROVIDED WITH A THREE PRONG GROUNDED PLUG. IF A THREE-HOLE GROUNDED ELECTRICAL OUTLET IS NOT AVAILABLE, USE AN APPROVED METHOD TO GROUND THE UNIT.

DO NOT USE EXTENSION CORDS WITH THIS UNIT. DO NOT "GANG" TOGETHER WITH OTHER ELECTRICAL DEVICES ON THE SAME OUTLET.

- A. Check the dispenser serial number plate for unit's correct electrical requirements. Do not plug into electrical outlet unless unit electrical configuration, located on serial plate, agrees with local available power supply.
- B. Route the power supply cord to a grounded electrical outlet of the proper voltage and amperage rating, and plug in the unit.

2.5 CONNECTING SUPPLY LINES TO SOURCES

- A. Connect free end of plain water lines to water supply [must be 30-110 PSI (2.1 to 7.6 BAR)].
- B. Mark both ends of product and water lines and route to dispenser. Flush lines to be sure each is clean. *Failure to do so may result in clogging of valve(s), resulting in improper operation.* Connect lines to dispenser and secure using Oetiker clamps.
- C. Turn on water supply.
- D. Open all dispenser valves until air is bled from system.
- E. Actuate valve until a smooth flow of water is obtained by holding in Manual Mode.
- F. Check for leaks.
- G. Connect free ends of product lines to bag-in-box.
- H. Activate syrup pump until smooth flow of syrup is obtained by holding in Manual Mode.
- I. Check for syrup leaks.
- J. Adjust the water flow.
- K. Adjust water to syrup (ratio) brix (see Section 5.5).

3. SCHEDULED MAINTENANCE

Drain host product unit hopper before starting the sanitization process to prevent overfilling. The LFS must be sanitized first.

3.1 DAILY CLEANING

- A. Nozzle and diffuser must be cleaned daily.
 - 1. Remove nozzle by twisting counter clockwise and pulling down.
 - 2. Remove diffuser by pulling down.
 - 3. Wash nozzle and diffuser with warm water. **DO NOT use soap or detergent.** This will cause foaming and off taste in finished product.
 - 4. Reinstall diffuser and nozzle.
 - 5. With a clean cloth and warm water, wipe off all of the unit's exterior surfaces. **DO NOT USE ABRASIVE SOAPS OR STRONG DETERGENTS.**
 - 6. Taste each product for off tastes and/or brix changes.
 - 7. Check for leaks.

3.2 BI-WEEKLY SANITIZING

Nozzle and diffuser must be sanitized bi-weekly. Comply with the instructions of the dispenser manufacturer to properly sanitize the nozzle and diffuser, and ensure no off-taste is present.

3.3 EVERY SIX MONTHS

Clean and sanitize the LFS unit using the appropriate procedures outlined in Section 4 of this manual.

4. DISPENSER CLEANING AND SANITIZING

4.1 AMBIENT PROCESS

- A. The ambient process is the most common method for cleaning and sanitizing dispenser equipment. The detergent should be caustic-based and the sanitizer should be a low pH (less than 7.0) chloride solution.
- B. Disconnect syrup containers and remove product from tubing by purging with water.
- C. Rinse the lines and fittings with clean, room temperature water to remove all traces of residual product.
- D. Fill lines with a caustic-based (low-sudsing, non-perfumed, and easily rinsed) detergent solution. The solution should be prepared in accordance with the manufacturer's recommendations, but should be at least two (2) percent sodium hydroxide. Make sure the lines are completely filled and allow to stand for at least ten (10) minutes.
- E. Flush the detergent solution from the lines with clean water. Continue rinsing until testing with phenolphthalein shows that the rinse water is free of residual detergent.
- F. Fill the lines with a low pH (7.0) chlorine solution containing at least 100 parts per million (PPM) (100 mg/L) available chlorine. Make sure that lines are completely filled and allow to stand for ten (10) minutes.
- G. Nozzle/Diffuser Sanitizing

Use the following procedure to sanitize the nozzle housing during dispenser sanitization.

- 1. **Cleaning Solution** - Prepare a low sudsing, non-perfumed, and easily rinsed detergent solution and clean, potable water at a temperature of 90° to 110°F.
- 2. **Sanitizing Solution** - Prepare a chlorine solution (less than pH 7.0) containing 100 PPM available chlorine with clean, potable water at a temperature of 90° to 110°F. 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 100 PPM available chlorine.
- 3. **Cleaning Procedure**

CAUTION

BE CAREFUL NOT TO GET SANITIZING SOLUTION ON THE CIRCUIT BOARD.

- a. Disconnect power, so the valve will not be inadvertently activated while cleaning.
- b. Remove nozzle housing by twisting it counter-clockwise and pulling it down.
- c. Wash the nozzle housing with the cleaning solution.
- d. Immerse the nozzle housing in a bath of the sanitizing solution for 15 minutes.
- e. While the parts are in the sanitizing solution, visually inspect around the nozzle mounting area for syrup residue. Using a cloth or nozzle brush and sanitizing solution, clean this area and the bottom of the nozzle body.
- f. Wipe off the valve shroud assembly and any other areas that may have been splashed by syrup.
- g. Wearing sanitary gloves, remove, drain, and air dry the nozzle housing.
- h. Make certain the nozzle o-ring is in place around the nozzle mounting area on the valve. If necessary, slide a new nozzle o-ring (PN 02-0228) onto the nozzle mounting area. (Wear sanitary gloves while handling the o-ring.) If needed, apply 111 lubricant (or another FDA approved lubricant) to the o-ring.
- i. Wearing sanitary gloves, install the nozzle housing by inserting it into the nozzle body and twisting it clockwise to lock it in place.
- j. Connect power and replace cover.
- k. Reconnect syrup containers and ready Unit for operation.

WARNING

REMOVE SANITIZING SOLUTION FROM DISPENSER AS INSTRUCTED. RESIDUAL SANITIZING SOLUTION LEFT IN SYSTEM COULD CREATE HEALTH HAZARD.

- l. Draw drinks to refill lines and flush the chlorine solution from the dispenser.

NOTE

Please note that a fresh water rinse cannot follow sanitization of equipment. Purge only with the end use product. This is an NSF requirement.

- m. Taste the beverage to verify that there is no off taste.

5. OPERATION OF THE LFS

5.1 CONNECTIONS

- A. Attach 3/8" syrup hoses between syrup (BIB), syrup pump, and the unit. Inlet syrup hose, 3/8", attaches to left side of unit.
- B. Attach CO₂ connection to syrup pump.

NOTE:

The unit recognizes the left side of the unit as syrup and right side as water.

WARNING:

FAILURE TO RUN UNIT WITHOUT WATER LINES CONNECTED WILL RESULT IN OVERHEAT OF THE SOLENOID VALVES.

- C. Attach water lines from water source or prechiller to the unit.

5.2 INITIAL POWER UP

- A. Insure the switches on the unit are set to the middle (OFF) position.
- B. Plug in the unit.

5.3 AUTO MODE

- A. Switch the unit into AUTO Mode. The Green power light will come on and the valve will start dispensing syrup and water out of the valve.

5.4 MANUAL MODE

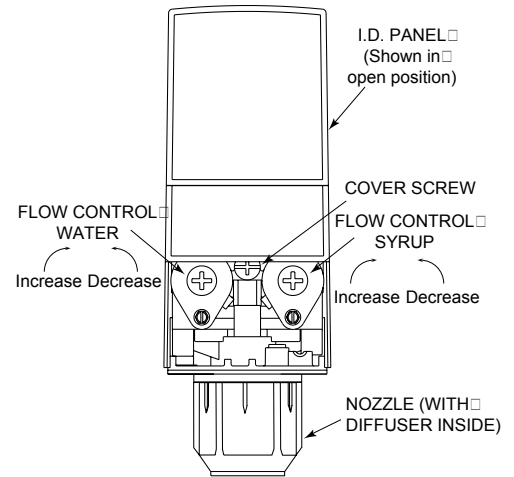
- A. Switch the unit in MANUAL Mode (this requires holding down the switch). The Green power light will come on and the valve will start dispensing syrup and water out of the valve.

5.5 SETTING THE DESIRED RATIO

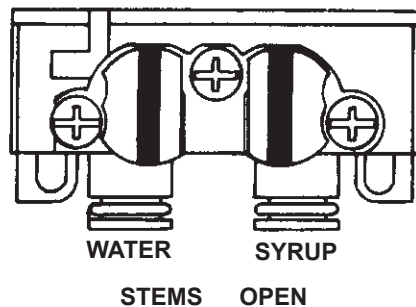
A. ADJUSTING WATER FLOW

The Model 145 **LEV**® water flow may be adjusted from 2.0 oz/sec (59.2 ml/sec) to 4.50 oz/sec (133.2 ml/sec). The restricted flow adjustment plug adjusts to a maximum flow of 3.3 oz/sec (97.7 ml/sec).

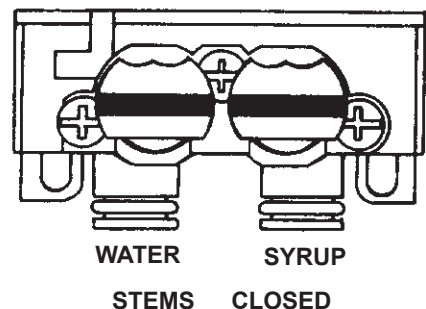
1. Slide I.D. panel UP until flow control adjustments are exposed (see Figure 2).
2. Remove nozzle by twisting counter clockwise and pulling down.
3. Remove diffuser by pulling down.
4. Install Lancer syrup separator (PN 54-0201, smoke, for Model 145 valves) in place of the nozzle.



**Valve Adjustment
Figure 2**



**Mounting Block Stems in OPEN Position
Figure 3**



**Mounting Block Stems in CLOSED Position
Figure 4**

5. Activate valve to fill separator syrup tube.
6. Hold a Brix cup under syrup separator. Dispense water and syrup into cup for two (2) seconds. Divide number of ounces (ml) of water in cup by two (2) to determine water flow rate per second.
7. To obtain desired water flow rate, use a screwdriver to adjust water flow control (see Figure 2).

B. ADJUSTING WATER TO SYRUP BRIX

The Model 145 syrup flow may be adjusted from 0.50 oz/sec (14.8 ml/sec) to 0.90 oz/sec (26.6 ml/sec).

1. Hold the Brix cup under the syrup separator and activate valve. Check Brix.
2. To obtain desired Brix, use screwdriver to adjust syrup flow control (see Figure 2).
3. Remove syrup separator.
4. Install diffuser and nozzle.
5. Slide I.D. panel (Valve Cover) down.

5.6 CHANGING SYRUP PACKAGE PROCEDURE

When a package of syrup is empty and the unit is in AUTO mode or MANUAL mode, the SOLD OUT light will blink and the alarm will sound until a new package is replaced as described in the following section.

5.7 CHANGING THE BOX OF SYRUP

- A. If the ratio does not need to be changed:
 1. Put the switch in the AUTO position.
 2. The unit should be ready to fill in the AUTO mode again.
- B. If the ratio does need to be changed:
 1. Put the Switch in OFF mode and use MANUAL mode to dispense product as needed.
 2. Follow the procedure to change the ratio (see Section 5.5).
 3. Put the Switch in AUTO mode to go into AUTO fill mode. The unit should be ready to fill in the AUTO mode again.

5.8 FUNCTIONS AND ALARMS

- A. Probes monitor the level of product in the hopper if the level of product flows below the Lo probes then the valve comes on and begins filling the hopper until contact is made with both Lo probes plus an additional 17 seconds after that and then shuts off. If the level of product ever comes in contact the Hi probe then the valve shuts off until the level drops below this probe. (Applies for AUTO and MANUAL Mode.)
- B. Sold out Alarm monitors the amount of syrup in the bag in the box when the level is low the pressure switch activates and triggers an alarm and red led light which will blink. The alarm can be turned off by replacing the bag in the box, changing the CO₂ bottle or switching the unit in MANUAL.

NOTE:

By switching the unit in MANUAL and then back into AUTO, you turn the sound alarm only OFF. The red SOLD OUT switch continues to blink until one of the above is performed.

6. TROUBLESHOOTING

TROUBLE	CAUSE	REMEDY
6.1 Green power light does not come on.	A. Unit not plugged in. B. Loose connection. C. Polarity incorrect (wires crossed). D. Failed transformer. E. Failed PCB.	A. Check to ensure unit is plugged in. B. Unscrew cover and ensure all connections are secure. C. Looking at terminals (LED away from you), ensure flat side of the rectangle (between the terminals) is at bottom and that the red positive wire is on the right terminal. D. Replace transformer. E. Replace PCB.

TROUBLE	CAUSE	REMEDY
6.2 Under SOLD OUT condition, SOLD OUT alarm sounds, but the Red SOLD OUT LED does not flash.	A. Loose connection. B. Polarity incorrect (cables crossed).	A. Ensure cables are secure. B. Looking at terminals (LED away from you), ensure flat side of the rectangle (between the terminals) is at bottom and that the red positive wire is on the right terminal.
6.3 Unit will not go into AUTO mode.	A. Loose connection. B. Switch is broken. C. Failed PCB.	A. Check to ensure cables plugged in correctly. B. Replace Switch. C. Replace PCB.
6.4 SOLD OUT Alarm does not shut OFF.	A. Pressure Switch is ON. B. Failed PCB.	A. 1. Check Syrup supply. 2. Check Syrup Bag Line Connections. 3. Check CO ₂ supply. 4. Check for loose connection. 5. Replace pressure switch. B. Replace PCB.
6.5 Water not dispensing from valve.	A. Water is not on. B. Chiller is clogged or shut OFF.	A. Check water supply. B. Ensure there are no leaks or clogs in the chiller and that chiller is ON.
6.6 Red light on the circuit comes on or Green light on the circuit board does not come on.	A. Loose connection. B. Bad solder joint or failed PCB.	A. Check all connections. B. Replace PCB.
6.7 Water leakage around nozzle.	A. O-ring is not properly installed above diffuser. B. O-ring is damaged or missing.	A. Install or replace o-ring correctly. B. Replace o-ring.
6.8 Leakage between upper and lower bodies.	A. One or more retaining screws loose. B. Paddle arm assemblies are worn or damaged.	A. Tighten all six (6) retaining screws. B. Replace paddle arm assemblies.
6.9 Miscellaneous leakage.	A. Gap between parts. B. Damaged, missing, or improperly installed o-rings.	A. Tighten appropriate retaining screws. B. Replace appropriate o-rings.
6.10 Insufficient water flow.	A. Water flowing pressure is too low, or restricted. B. Foreign debris in water flow controls.	A. 1. Check incoming water from carbonator to ensure minimum flowing pressure. See SPECIFICATIONS. 2. Check stems on mounting block to ensure it is in fully OPEN position. B. Remove water flow control from upper body and clean out any foreign materials to ensure smooth free piston movement.
6.11 Insufficient syrup flow.	A. Syrup flowing pressure is too low, or restricted. B. Foreign debris in syrup flow controls.	A. 1. Check incoming syrup to ensure minimum flowing pressure. See SPECIFICATIONS. 2. Check shutoff on mounting block to ensure it is in fully OPEN position. B. Remove syrup flow control from upper body and clean out any foreign materials to ensure smooth free piston movement.

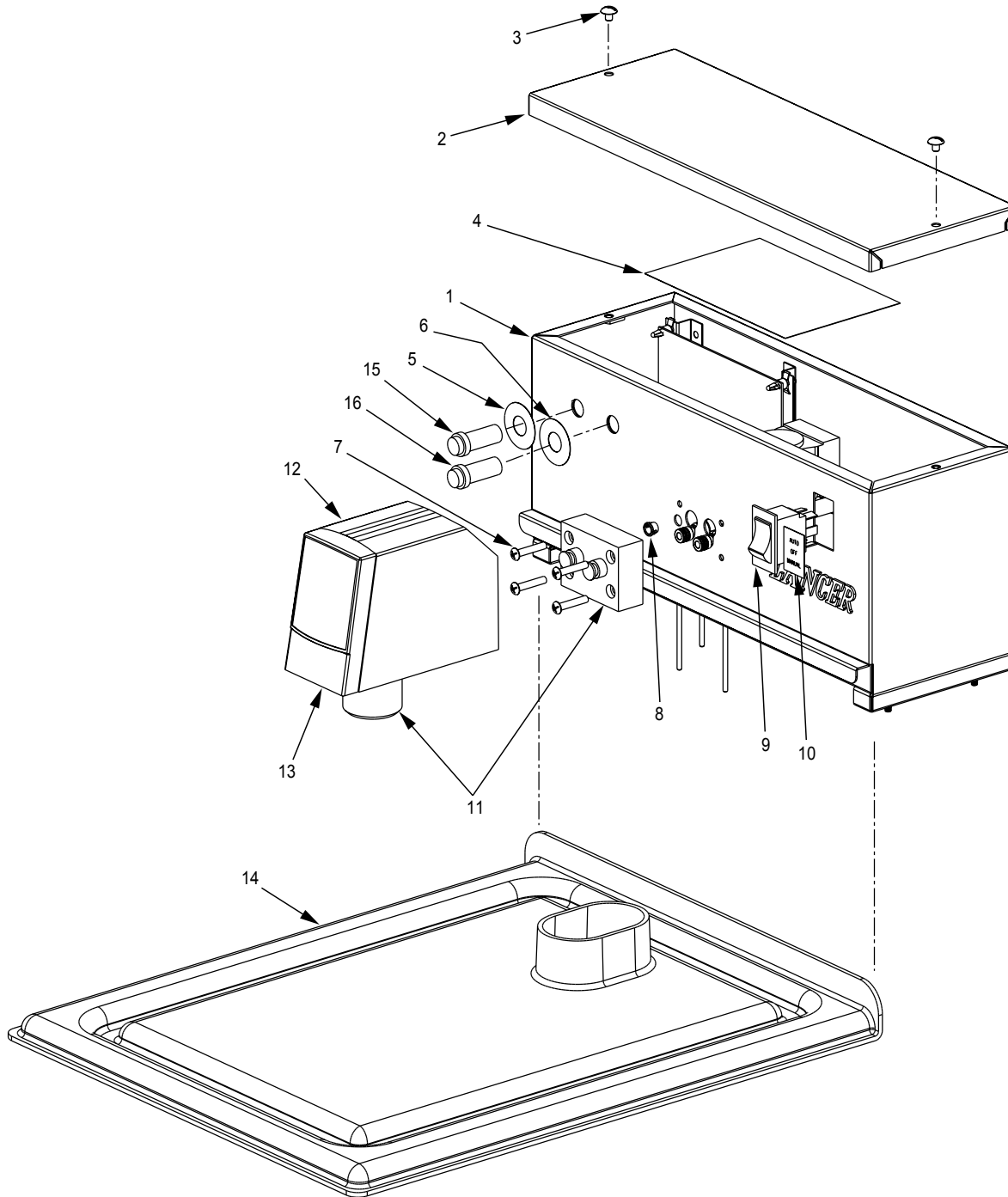
<u>TROUBLE</u>	<u>CAUSE</u>	<u>REMEDY</u>
6.12 Erratic Ratio °Brix.	A. Incoming water and/or syrup supply not at sufficient flowing pressure. B. Foreign debris in water and/or syrup flow controls.	A. Check incoming water and syrup supply to ensure sufficient flowing pressure. B. Remove flow controls and clean out any foreign materials to ensure smooth free piston movement.
6.13 No product dispensed.	A. Water and syrup shutoffs are not fully OPEN. B. Ensure cup lever arm, or I.D. Panel actuator is actuating switch. C. Electric current not reaching valve. D. Improper or inadequate water or syrup supply. E. BIB empty.	A. Check stems on mounting block to ensure they are in fully OPEN position. B. If not, repair or replace. C. Check electric current supplied to valve. See SPECIFICATIONS. If current is adequate, check solenoid coil and switch. Replace if necessary. D. Remove valve from mounting block and open stems slightly and check to ensure proper water and syrup supply. If no supply, check dispenser for freeze-up or other problems. E. Replace BIB.
6.14 Water only dispensed, no syrup; or syrup only dispensed, no water.	A. Water or syrup stem on mounting block not fully OPEN. B. Improper or inadequate water or syrup supply.	A. Check stems on mounting block to ensure they are in full OPEN position. B. Remove valve from mounting block and open stem slightly to check for proper syrup and water supply. If no supply, check dispenser for freeze-up or other problems.
6.15 Valve will not shut OFF.	A. Cup Lever may be sticking or binding. B. Switch not actuating properly. C. Solenoid armature not returning to bottom position. D. Debris or damage to Paddle arms.	A. Correct or replace lever. B. Check switch for free actuation. C. Replace defective solenoid armature or spring. D. Remove debris and/or replace damaged paddle arms.
6.16 Excessive foaming.	A. Incoming water or syrup temperature too high. B. Water flow rate too high. C. Nozzle and diffuser not clean. D. Nozzle and diffuser not properly installed. E. CO ₂ pressure too high.	A. Correct at dispenser. B. Readjust and reset °Brix. See Section 5.5. C. Remove and clean. D. Remove and install properly. E. Check for proper pressure setting.

NOTES:

NOTES:

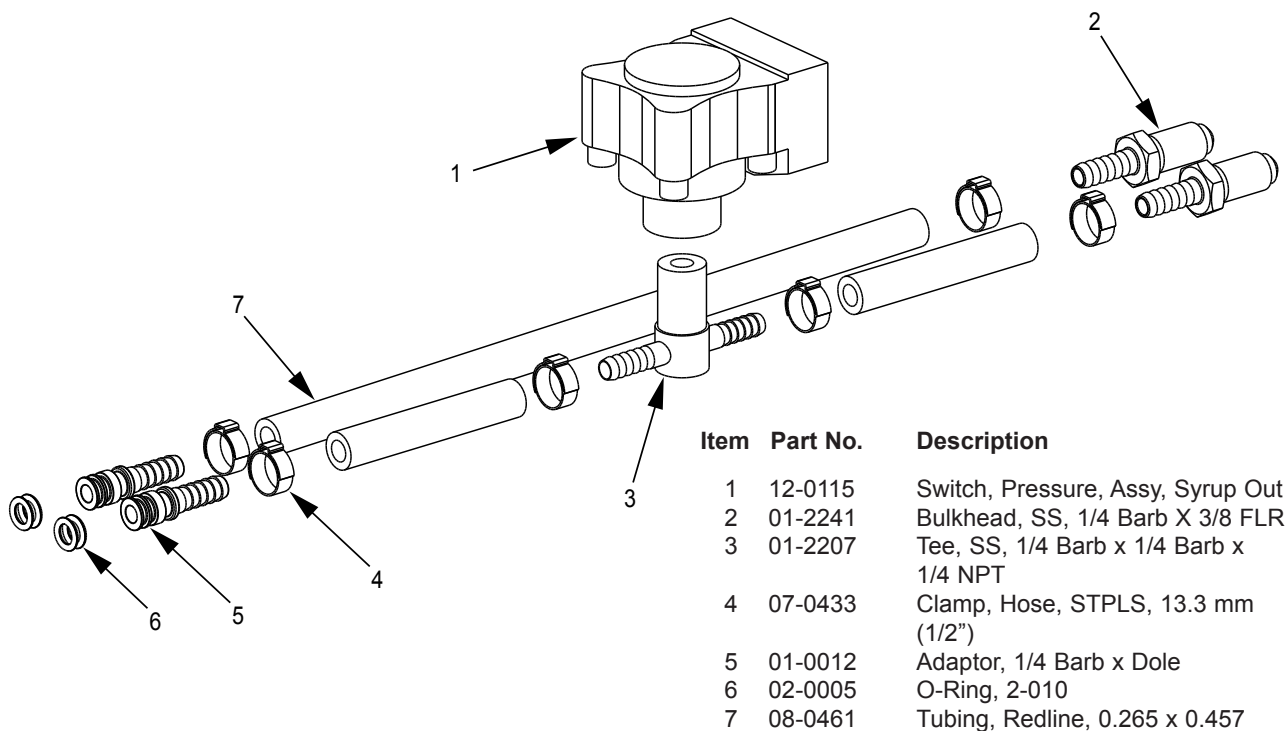
7. ILLUSTRATIONS, PARTS LISTINGS, AND WIRING DIAGRAMS

7.1 CONTROL BOX ASSEMBLY, FRONT VIEW

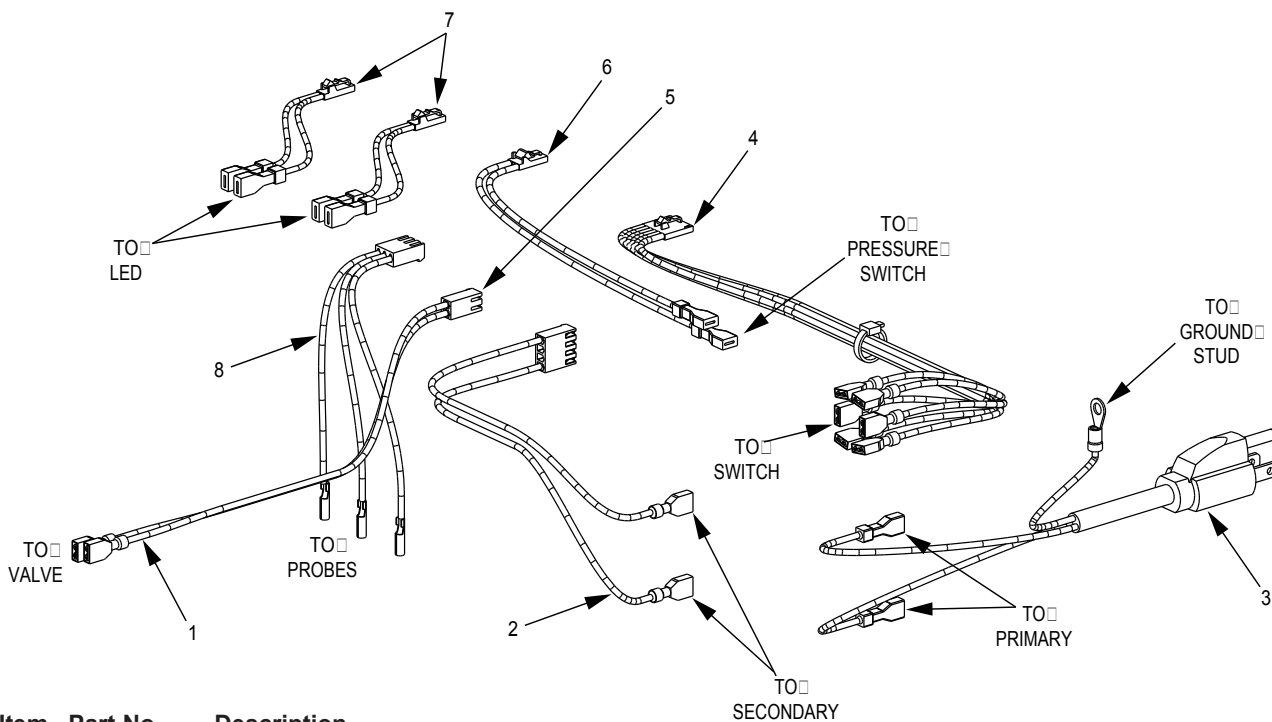


Item	Part No.	Description	Item	Part No.	Description
1	51-1397	Control Box Assy, LFS	10	06-2483	Label, Switch, LFS
2	30-3125	Cover, LFS	11	19-0181/01	LEV ®, 4.5, W/O C, L, S, WH (includes back block)
3	04-0148	Screw, 10 - 32 x 0.250, THD, SL, MS, SS	12	54-0029/01	Cover, Subassy, LEV ®, Lift-Off
4	06-2486/01	Decal, Wiring Diagram, LFS	13	05-0287/02	Panel, ID. LEV ®, Basic, Lift-Off
5	06-2485	Label, Sold Out LED, LFS	14	05-1964	Lid, Hopper
6	06-2484	Label, Power LED, LFS	15	12-0447	LED, Red
7	04-1089	Screw, 10 - 32, RH, PFH/SL, 1.000	16	12-0448	LED, Green
8	13-0005	Bushing, Strain Relief, 0.312 OD			
9	12-0446	Switch, Rocker, Double Pole, Double Throw			

7.2 PLUMBING

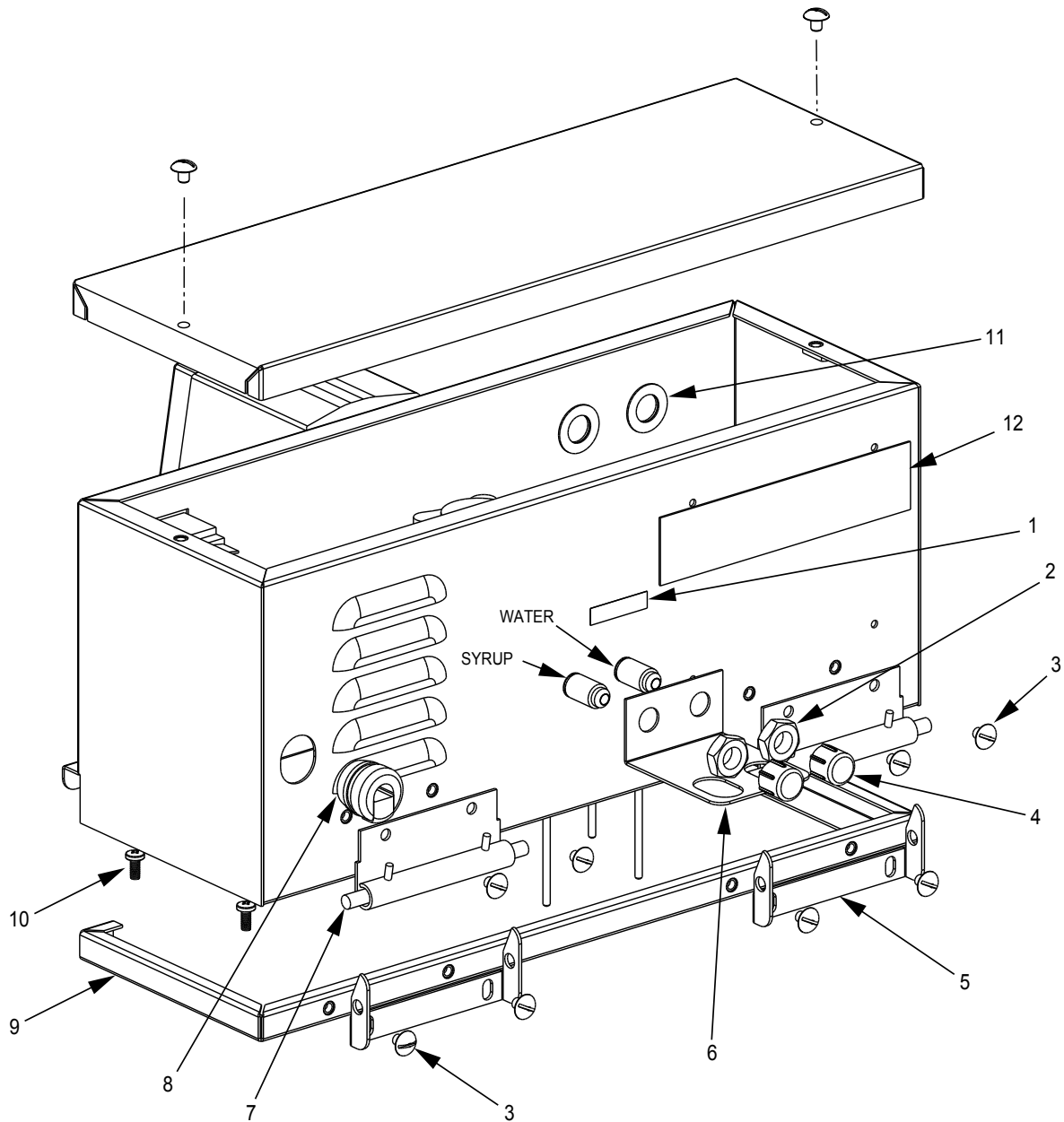


7.3 WIRING HARNESS DIAGRAM



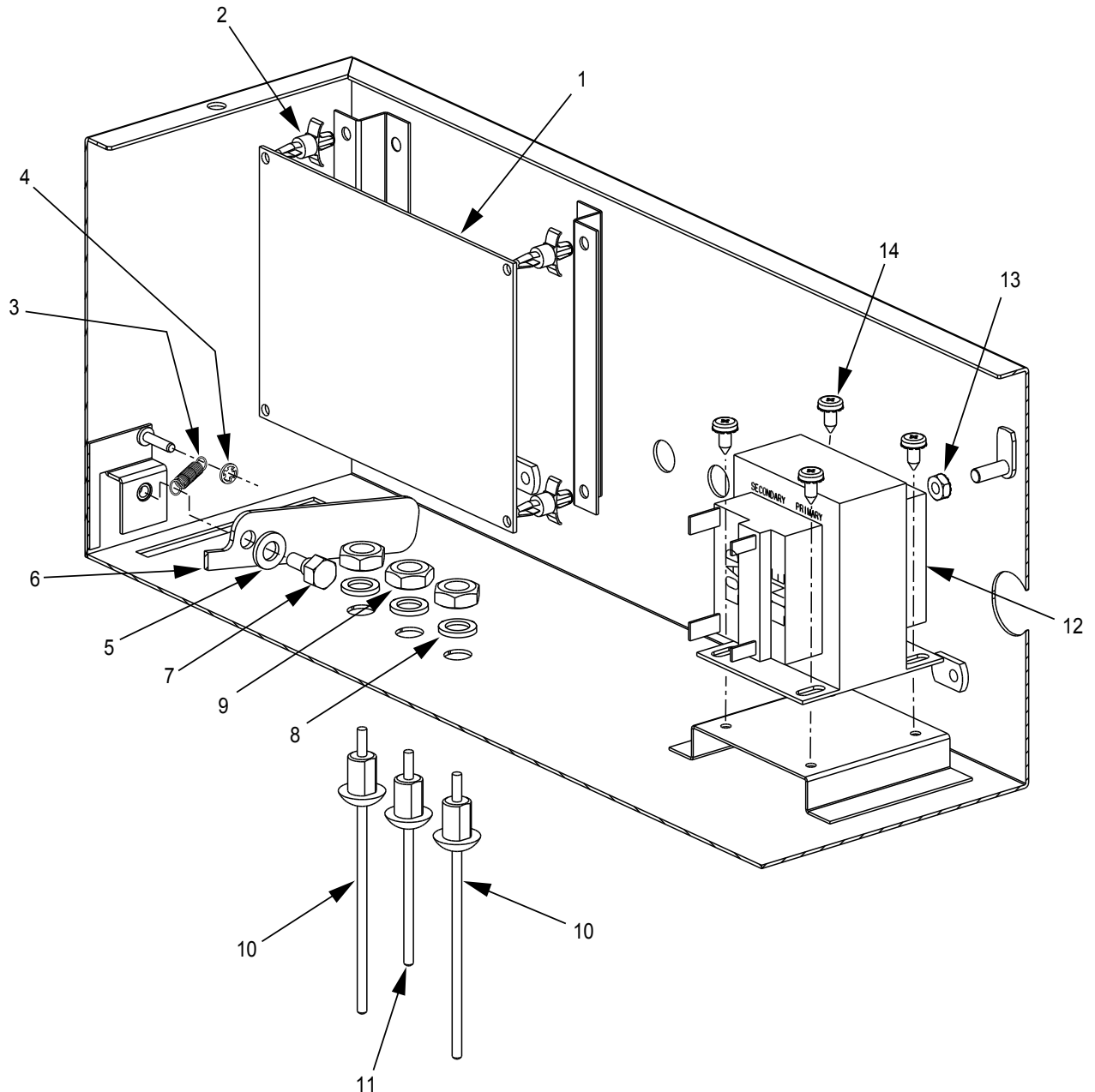
Item	Part No.	Description
1	52-2511	Harness, Valve to PCB, LFS
2	52-2510	Harness, Transformer to PCB, LFS
3	52-2509	Cord Assy, Power, 115V, LFS
4	52-2496	Harness, Switch, LFS
5	11-0180	Connector, Housing, Wire to Board
6	52-2497	Harness, Sold Out Valve, LFS
7	52-2498/01	Harness, LED, LFS
8	52-2500	Harness, Probe, LFS

7.4 CONTROL BOX ASSEMBLY, REAR VIEW



Item	Part No.	Description
1	06-0112	Label, Water
2	04-0684	Nut, Hex, 5/8 - 18, JAM, SST
3	04-0148	Screw, 10 - 32 x 0.250, THD, SL, MS, SS
4	04-0045	Cap, Protective, Shipping, 5/8 - 18
5	30-3134	Hinge, Bottom, LFS
6	30-3135	Support, Syrup and Water, LFS
7	07-0575	Hinge, SS, Concealed, Removable
8	13-0028	Relief, Strain, 7/8" DIA
9	30-3122	Base, LFS
10	04-0558	Screw, 10 - 32 x 0.375, ROLOC, Phillips
11	04-1292	Washer, SS, 0.5 ID x 0.87 OD x 0.03 THK
12	06-0075-01	Nameplate, Vinyl, PN/SN/ELEC Only

7.5 INTERNAL COMPONENTS



Item	Part No.	Description	Item	Part No.	Description
1	52-2502	PCB Assy, LFS	10	52-2492	Probe Assy, LO Level, LFS
2	05-1535	Support, PCB, 0.156 x 0.187 x 0.25 OH	11	52-2493	Probe Assy,, HI Level, LFS
3	03-0095	Spring, Outside, Yoke	12	25-0039	Transformer, 120V/50-60Hz, 24V, 50VA
4	03-0342	Ring, Retaining, 1/8 Shaft, External, Self Locking	13	04-0286	Nut, Hex, 10 - 24 x 5/16, SS, KEPS Washer
5	04-1308	Washer, Flat, 0.032 x 0.265 ID x 0.500 OD, SS	14	04-0504	Screw, 8 - 18 x 0.375, PHD, W/ELW, PH, AB
6	30-3131	Kick Stand, LFS			
7	04-1053	Screw, Shoulder, 10 - 24, Draft			
8	04-1315	Washer, Flat, 3/8 x 5/8 x 1/16 Thick			
9	04-1285	Nut, SS, 3/8 - 16			

7.6 WIRING DIAGRAM

