



POST MIX VALVE LEV® SERIES 100, 145

Operation Manual

PN: 28-0027/05



**LEV®
PORTION CONTROL**

**LEV®
PUSH BUTTON**

**LEV®
PUSH BUTTON**

**LEV®
CREW SERVE**

**LEV®
EASY FILL®**

MODEL 100L 3.0 LEV®

MODEL 100SSL 3.0 LEV® WITH
SELF-SERVE LEVER

MODEL 100P 3.0 LEV®
PUSHBUTTON

MODEL 100SF 3.0 LEV®
SUREFILL

MODEL 100PC 3.0 LEV®
PORTION CONTROL

MODEL 145L 4.5 LEV®

MODEL 145SSL 4.5 LEV® WITH
SELF-SERVE LEVER

MODEL 145P 4.5 LEV®
PUSHBUTTON

MODEL 145SF 4.5 LEV®
SUREFILL

MODEL 145PC 4.5 LEV®
PORTION CONTROL

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10011
14512



Manual PN: 28-0027/05

05/01/06

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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LEV® VALVE SPECIFICATIONS

FLOW RATE:

- All Model 100 (3.0 Valve) valves are adjustable from 1.5 ounces/second (44.4 ml/sec) to 3.0 ounces/second (88.8 ml/sec) of finished drink.
- All Model 145 (4.5 Valve) valves are adjustable from 2.5 ounces/second (74.0 ml/sec) to 5.0 ounces/second (148.0 ml/sec) of finished drink.
- Restricted flow adjustment plug, maximum flow 2.0 ounces/second (59.2 ml/sec) in the Model 100 valves and 3.3 ounces/second (97.7 ml/sec) in the Model 145 valves.

FLOW CONTROLS:

Water and syrup flow controls are individually adjustable without removing valve cover. Syrup flow control operates with both sugar and diet syrups.

MOUNTING:

Mounts on the same hole center as the following valves with the same mounting screws.

Dole SEV	Cornelius SF1
Dole FFV	McCann Coca-Cola Valve
Smart Valve	

SODA/WATER LEVER:

Manually operated and field convertible.

WATER AND SYRUP REQUIREMENTS:

MODEL 100 (3.0 Valves)

Flowing Pressures at Valve

	Minimum	Maximum
Water/Soda	40 PSIG (0.276 MPA)	110 PSIG (0.758 MPA)
Syrup (Sugar)	20 PSIG (0.138 MPA)	70 PSIG (0.483 MPA)
Syrup (Diet)	10 PSIG (0.070 MPA)	70 PSIG (0.483 MPA)

MODEL 145 (4.5 Valves)

Flowing Pressures at Valve

	Minimum	Maximum
Water/Soda	30 PSIG (0.207 MPA)	110 PSIG (0.758 MPA)
Syrup (Sugar)	15 PSIG (0.103 MPA)	80 PSIG (0.552 MPA)
Syrup (Diet)	10 PSIG (0.070 MPA)	80 PSIG (0.552 MPA)

ELECTRICAL REQUIREMENT:

24 VAC, 50/60 Hz

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(s) of damage. If damage exists, have carrier note same on bill of lading and file a claim with the carrier.

1.2 REMOVAL OF EXISTING VALVE

- A. Turn **OFF** carbonated water supply to dispenser to depressurize the system.
- B. Turn **OFF** all syrup supplies to dispenser.
- C. Operate each valve to ensure complete depressurization of water and syrup in the system.
- D. Remove existing valve and mounting block. Reuse the mounting block screws.

1.3 INSTALLATION OF VALVE



CAUTION IF DISPENSER IS CONNECTED TO ELECTRICAL POWER, THE UNIT MUST BE PROPERLY GROUNDED TO AVOID POSSIBLE FATAL ELECTRICAL SHOCK OR SERIOUS BODILY INJURIES.

PRECAUCIÓN SI DISTRIBUIDOR ESTÁ CONECTADA A LA CORRIENTE ELÉCTRICA, LA UNIDAD DEBE ESTAR DEBIDAMENTE TIERRA PARA EVITAR POSIBLES DESCARGAS ELÉCTRICAS FATAL O LESIONES GRAVES LESIONES.

ATTENTION SI DISTRIBUTEUR EST BRANCHÉE AU COURANT, L'APPAREIL DOIT ÊTRE CORRECTEMENT TERRE POUR ÉVITER UN CHOC ÉLECTRIQUE MORTEL POSSIBLE OU BLESSURES GRAVES BLESSURES.

- A. Slide I.D. panel up to expose cover mounting screw (see Figure 1).
- B. Loosen cover mounting screw (DO NOT REMOVE) and remove cover.
- C. Turn both stems on mounting block to the CLOSED position (see Figure 2).
- D. Lift up wire retainer and remove mounting block from valve.
- E. Replace the inlet water and syrup o-rings on dispenser valve fittings.
- F. Lubricate o-rings on the fittings and mounting block with water or an FDA-approved lubricant.
- G. If syrup-out light is furnished with valve, run light wires through mounting block and valve plate. Connect wiring to pressure switch in product line (24 VAC power supply required).
- H. Install mounting block to valve plate using four (4) mounting screws removed from existing mounting block.
- I. Install valve on mounting block. Push wire retainer down. This will lock valve to mounting block. (White stems must be in closed position. See Figure 2.)
- J. Turn on carbonator water supply and syrup supply to dispenser.
- K. Turn both white stems on mounting block to the OPEN position (see Figure 3). Top of stem will lock wire retainer in position.
- L. If electric version, reconnect to 24 VAC power supply.
- M. Operate the valve momentarily to ensure flow of carbonated water and syrup.

NOTE: Model 100 valves are factory preset for a flow rate of 3.0 ounces per second; an adjustment may be required. Model 145 valves are factory preset for a flow rate of 4.5 ounces per second; an adjustment may be required.

- N. Adjust water flow to correct flow rate (see following instructions).
- O. Adjust ratio (oBrix) to correct setting (see following instructions).
- P. Install cover on valve and tighten cover mounting screw.
- Q. Slide down I.D. panel.

1.4 ADJUSTING WATER FLOW

The water flow for the Model 100 may be adjusted from 1.25 oz/sec (37 ml/sec) to 2.50 oz/sec (74 ml/sec). The water flow for the Model 145 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 (Model 100) adjusts to a maximum flow of 2.0 oz/sec (59.2 ml/sec). The restricted flow adjustment plug (Model 145) adjusts to a maximum flow of 3.3 oz/sec (97.7 ml/sec).

- A. Slide up I.D. panel until flow control adjustments are exposed (see Figure 1).
- B. Remove nozzle by twisting counter clockwise and pulling down.
- C. Remove diffuser by pulling down.

- D. Install Lancer syrup separator (yellow) (PN 54-0031 for Model 100 valves) or Lancer syrup separator (smoke) (PN 54-0201 for Model 145 valves) in place of the nozzle.
- E. Activate valve to fill separator syrup tube.
- F. Hold a Lancer oBrix 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.
- G. To obtain desired water flow rate, use a screwdriver to adjust water flow control (see Figure 1).

1.5 ADJUSTING WATER TO SYRUP oBRIX

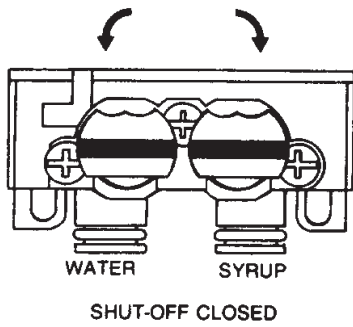
For the Model 100, the syrup flow may be adjusted from 0.25 oz/sec (7.4 ml/sec) to 0.50 oz/sec (14.8 ml/sec). For the Model 145, the syrup flow may be adjusted from 0.50 oz/sec (14.8 ml/sec) to 0.90 oz/sec (26.6 ml/sec).

- A. Hold the Lancer oBrix cup under the syrup separator and activate valve. Check oBrix.
- B. To obtain desired oBrix, use screwdriver to adjust syrup flow control (see Figure 1).
- C. Remove syrup separator.
- D. Install diffuser and nozzle.
- E. Slide down I.D. panel.

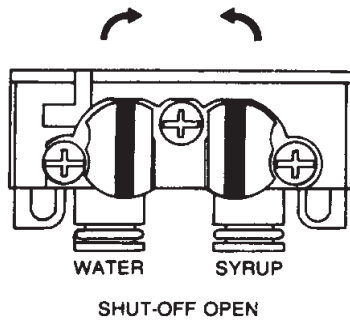
1.6 INSTALLATION OF SODA LEVER

The soda lever may be field installed.

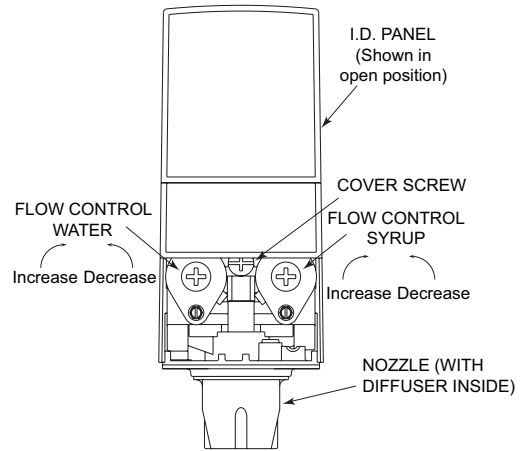
- A. Remove valve cover.
- B. Turn both stems on mounting block to CLOSED position (see Figure 2).
- C. Disconnect electric wiring harness.
- D. Remove valve from mounting block.
- E. Locate bottom plate plug in bottom plate on left side of nozzle (if necessary).
- F. Pull out stainless steel pin and remove bottom plate plug (see Figure 4).



Mounting Block Stems in CLOSED Position
Figure 2



Mounting Block Stems in OPEN Position
Figure 3



Typical Valve
Figure 1

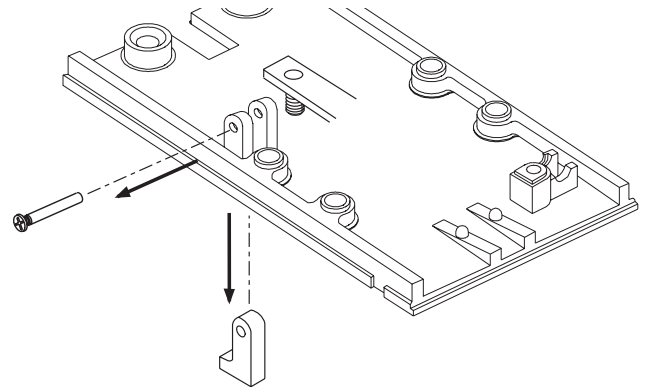


Figure 4

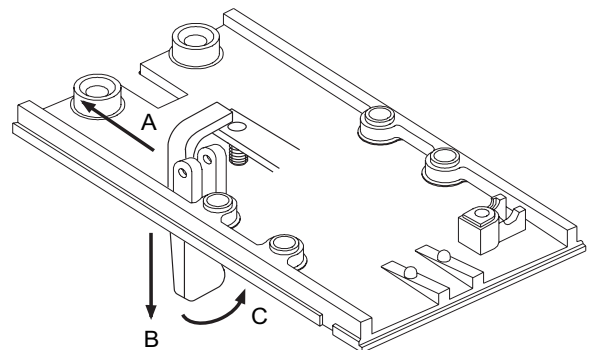


Figure 5

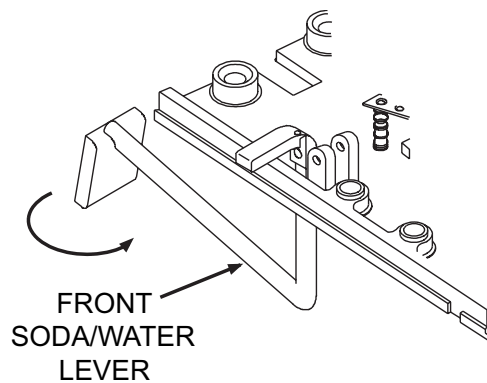


Figure 6

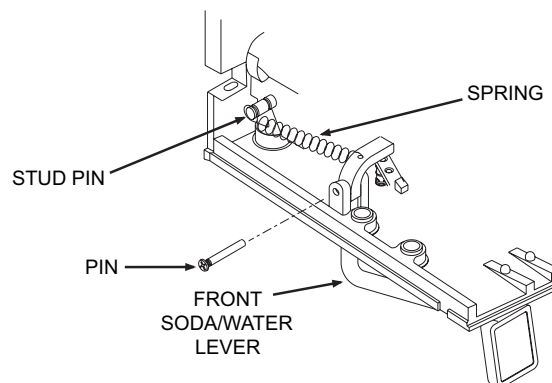


Figure 7

NOTE: If valve does not have pin, push bottom of plug to snap it out of position.

- G. Remove nozzle by twisting counter clockwise and pulling down.
- H. Remove diffuser by pulling down.
- I. Hold cup lever back and lay soda lever across bottom of valve with small leg extending through hole. Twist soda lever slightly and bring to upright position. Soda lever will slide between the vertical supports.
- J. Release cup lever.
- K. Line up holes in supports and soda lever and install stainless steel pin.
- L. Install diffuser and nozzle.
- M. Install valve on mounting block and latch wire retainer.
- N. Reconnect electric wire harness.
- O. Turn both stems on mounting block to OPEN position (see Figure 3).
- P. Push soda lever back and check for soda/water flow.
- Q. Install cover and tighten cover screw.
- R. Slide down I.D. panel.

1.7 REMOVAL AND INSTALLATION OF FRONT SODA/WATER LEVER (KIT PN 82-1458)

- A. Slide I.D. panel up to expose cover mounting screw (see Figure 1).
- B. Loosen cover mounting screw (DO NOT REMOVE) and remove cover.
- C. Close stems on mounting block (see Figure 2).
- D. Operate valve to check for complete shutoff of water and syrup.
- E. Lift up wire retainer and carefully remove valve from mounting block. Disconnect wire harness.
- F. Locate bottom plate plug or soda lever in bottom plate on left side of valve. For removal of either item, remove pin and retain for reinstallation (see Figure 4).

NOTE: If valve does not have pin, push bottom of plug to snap it out of position.

- G. To remove existing soda lever, slide lever behind vertical supports (see Figure 5). Carefully pull lever down, rotating it towards the back right corner of the bottom plate. Then slide lever out of the slot.
- H. To install the front soda/water lever, first position the lever so that the contact pad faces towards the rear of the valve (see Figure 6).
 - 1. Insert the front soda/water lever through the bottom plate and rotate the lever to the left until the contact pad is facing forward and the extension is positioned over the paddle arm on the left.
 - 2. To install spring (see Figure 7), press stud pin into hole on upper body and fit one end of spring into outer groove of stud pin. Fit other end of spring into hole on top of front soda/water lever. Install pin.
- I. Install diffuser and nozzle.
- J. Install valve on mounting block and latch wire retainer.
- K. Reconnect electric wire harness.
- L. Turn both stems on mounting block to OPEN position (see Figure 3).
- M. Push soda lever back and check for soda/water flow.
- N. Attach appropriate label to push pad on front soda/water lever.
- O. Install cover and tighten cover screw.
- P. Slide down I.D. panel.

1.8 REMOVAL AND INSTALLATION OF FLOW CONTROLS

- A. Slide I.D. panel up to expose cover mounting screw (see Figure 1).
- B. Loosen cover mounting screw (DO NOT REMOVE) and remove cover.
- C. Close stems on mounting block (see Figure 2).
- D. Operate valve to check for complete shutoff of water and syrup.
- E. Remove top screw and loosen bottom screw. Remove retainer.
- F. Remove plug adjustment assembly by threading extractor tool (PN 52-1950) into the bonnet and pulling it out. This will expose the flow control.
- G. Lift up wire retainer and carefully remove valve from mounting block. If electric, disconnect wire harness.
- H. Tilt valve forward to remove spring and piston.

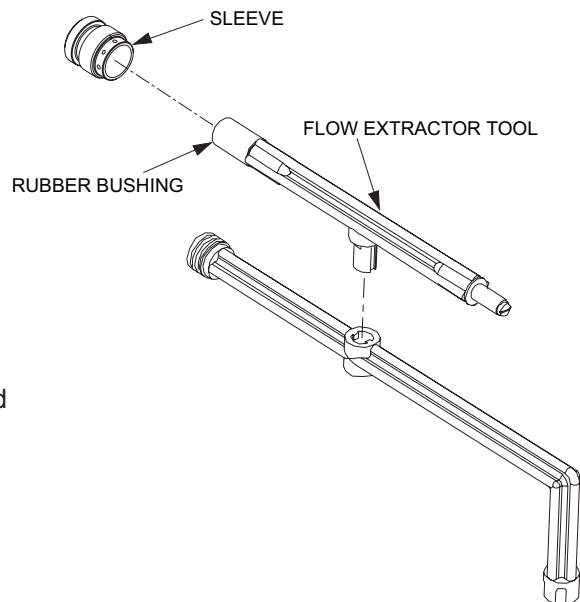
NOTE: If piston is going to be reused, use caution when handling.

- I. Replace valve to mounting block and push wire retainer down. This will provide a stable working condition.
- J. To remove sleeve, use flow control extractor tool (PN 52-1950) (see Figure 8).
 1. Ensure rubber bushing is loose on handle.
 2. Push rubber bushing into sleeve.
 3. Turn clockwise to tighten bushing inside sleeve.

NOTE: This will allow sleeve to be removed or installed.

- (4) Turn counterclockwise to loosen bushing inside sleeve. This will allow tool to be removed from sleeve.

- K. To replace sleeve, place sleeve on flow control extractor tool (see Figure 8) and insert in upper body.
- L. Lubricate o-ring with water (or any FDA approved lubricant) and push sleeve to bottom.
- M. Reassemble spool, spring, plug adjustment assembly, retainer and screws
- N. Turn both shut offs on mounting block to the OPEN position (see Figure 3).
- O. Replace cover and tighten mounting screw.
- P. Adjust water flow to correct flow rate (refer to Section 1.4).
- Q. Adjust oBrix to correct setting (refer to Section 1.5).
- R. Slide down I.D. panel.



**Flow Control Extractor Tool
Figure 8**

2. CLEANING

2.1 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. Ensure that cleaning solution is thoroughly rinsed from nozzle and diffuser. Residual solution will cause foaming and off taste in finished product.
 4. Reinstall diffuser and nozzle.

NOTE: Ensure compliance with the instructions of the dispenser manufacturer to properly clean and sanitize the nozzle and diffuser, and ensure no off-taste is present.

2.2 BI-WEEKLY SANITIZING

- A. 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. SYRUP BRIX CUP

05-0081	Soda Brix Cup	05-0170	Syrup Brix Cup 5.00 to 1
05-0083	Syrup Brix Cup 4.00 to 1	05-0086	Syrup Brix Cup 5.2 to 1
05-0084	Syrup Brix Cup 4.20 to 1	05-0087	Syrup Brix Cup 5.30 to 1
05-0085	Syrup Brix Cup 4.40 to 1	05-0088	Syrup Brix Cup 5.40 to 1
05-0171	Syrup Brix Cup 4.50 to 1	05-0089	Syrup Brix Cup 5.50 to 1
05-0169	Syrup Brix Cup 4.75 to 1	05-0090	Universal Split Cup

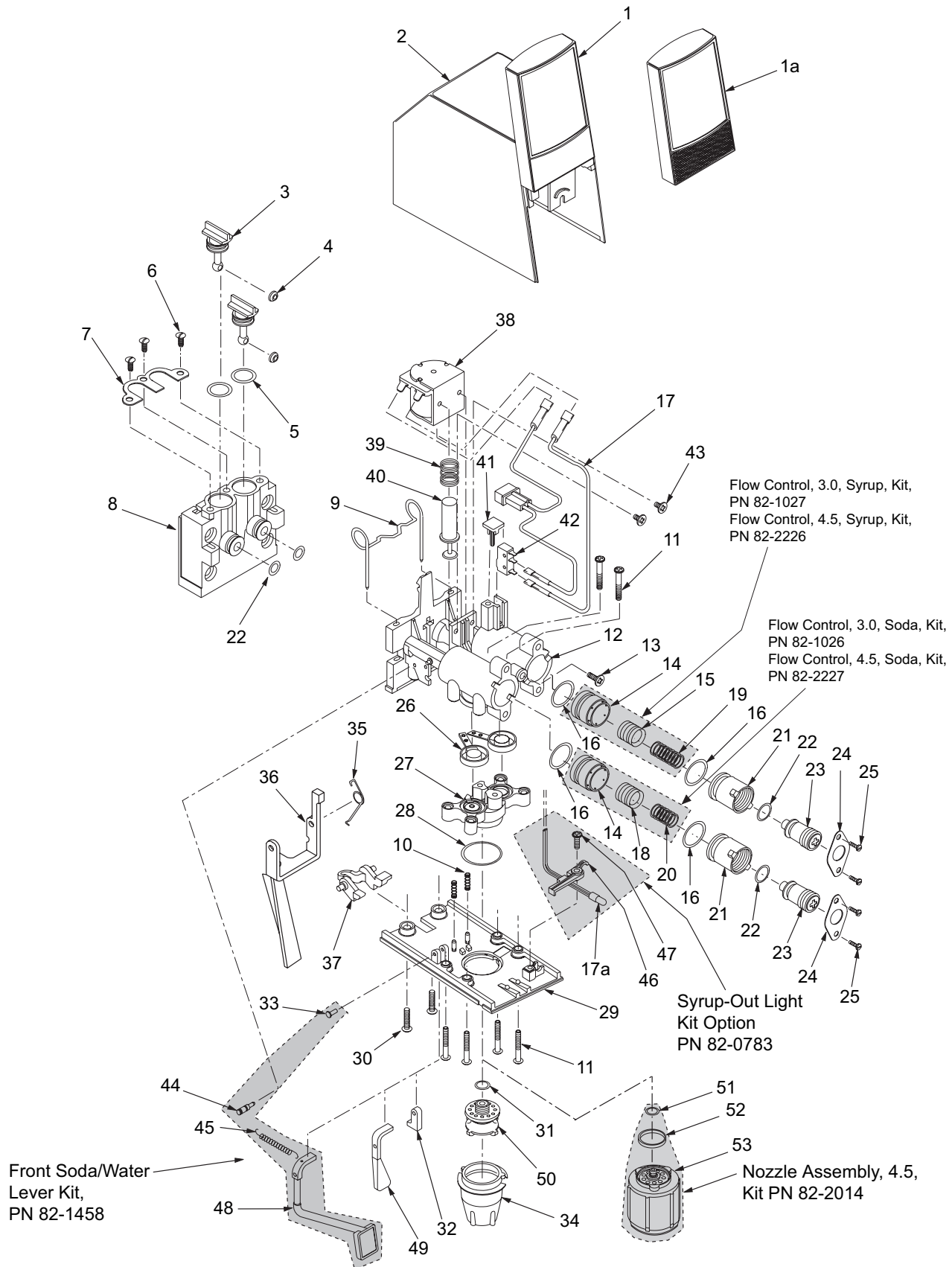
4. TROUBLESHOOTING

TROUBLE	CAUSE	REMEDY
4.1 Water leakage around nozzle.	A. O-ring not properly installed above diffuser B. O-ring is damaged or missing.	A. Install or replace o-ring correctly. B. Replace o-rng.
4.2 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.
4.3 Miscellaneous leakage.	A. Gap between parts. B. Damaged or improperly installed o-rings.	A. Tighten appropriate retaining screws B. Replace or adjust appropriate o-rings
4.4 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 cleanout any foreign materials to ensure smooth free piston movement.
4.5 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 cleanout any foreign materials to ensure smooth free piston movement.
4.6 Erratic Ratio oBrix.	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.

TROUBLE	CAUSE	REMEDY
4.7 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 is not reaching valve. D. Improper or inadequate water or syrup supply.	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.
4.8 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.
4.9 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.
4.10 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. CO2 pressure too high.	A. Correct at dispenser. B. Readjust and reset Brix. See Section 1.5. C. Remove and clean. D. Remove and install properly. E. Check for proper pressure setting.
4.11 No syrup-out light. (If equipped.)	A. Burned out or defective lamp. B. Faulty wiring and/or pressure switch in product line.	A. Replace harness. B. Repair or replace.

5. ILLUSTRATIONS AND PARTS LISTINGS

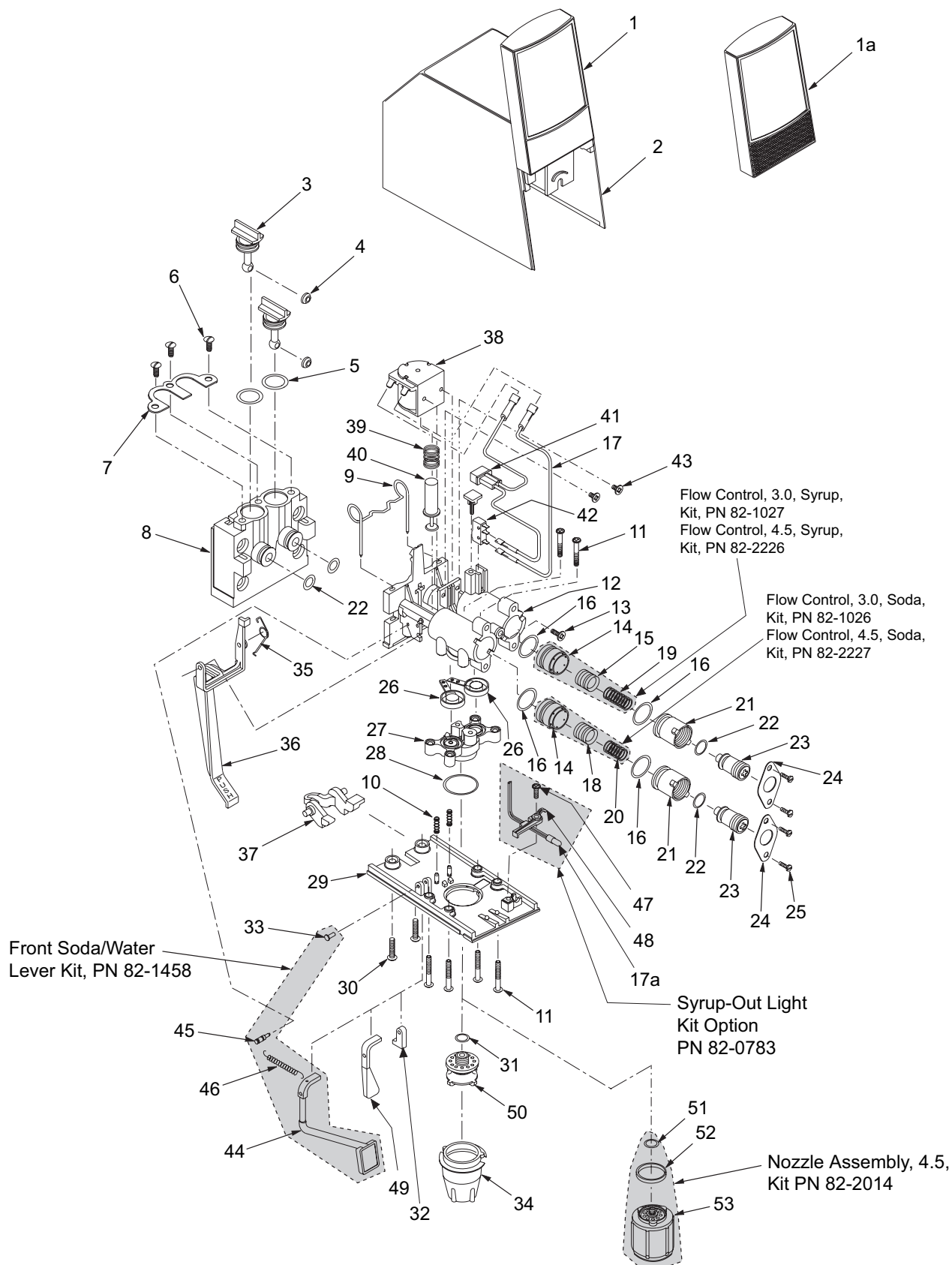
5.1 LEV® (MODEL 100L, 3.0 OZ/SEC AND MODEL 145L, 4.5 OZ/SEC)



5.1 LEV® (MODEL 100L, 3.0 OZ/SEC AND MODEL 145L, 4.5 OZ/SEC) (CONTINUED)

<u>Item</u>	<u>Part No.</u>	<u>Description</u>	<u>Item</u>	<u>Part No.</u>	<u>Description</u>
1	05-0287	I.D. Panel	34	05-0233	Nozzle, 3.0 (Used in Valves produced through September 1998)
1a	54-0057	I.D. Panel (Syrup-Out)			
2	54-0029	Cover Sub Assy			
—	54-0030	Cover Assy (Item No. 1-2)	-	05-1463	Nozzle, 3.0 (Used in Valves produced in September 1998 and later)
—	54-0059	Cover Assy (Item No. 1a-2)			
3	05-0266	Stem, Valve, Mounting Block			
4	05-0267	Washer	35	03-0081	Lever, Spring, Electric
5	02-0047	O-Ring	36	05-0231	Lever, Electric
6	04-0269	Screw	37	05-0238	Yoke, Electric
7	03-0087	Retainer, Stem, Valve, Mounting Block	38	52-0288	Coil Assy, LEV®
			39	03-0125	Spring, Solenoid, LEV®
8	05-0265	Mounting Block	40	10-0117	Armature, LEV®
—	82-0274	Block Assy, Mounting (Item No. 3-8, 22)	41	05-0935	Plug, Retainer, Micro-Switch
9	03-0233	Retainer, Valve, 1-Piece	42	26-0265	Micro-Switch
10	03-0143	Spring, Pin, LEV®	43	04-0486	Screw
11	04-0270	Screw	44	04-0724	Pin, Stud
12	54-0189	Body Assy, Upper	45	03-0238	Spring, Front Soda/Water Lever
13	04-0302	Screw	46	05-0490	Holder
14	81-0274	Sleeve, Syrup/Water, 3.0	47	04-0470	Screw
-	81-0382	Sleeve, Syrup/Soda, 4.5	48	09-0120	Lever, Front, Soda/Water
15	81-0273	Piston, Syrup, 3.0	49	05-0274	Lever, Soda, 3.0
-	81-0383	Piston, Syrup, 4.5	50	54-0028	Diffuser Assy, 3.0 (Used in Valves produced through September 1998)
16	02-0132	O-Ring			
17	52-0622	Wire Harness			
17a	52-0902	Wire Harness (Syrup-Out)	-	05-1593	Diffuser Assy, 3.0 (Used in Valves produced in September 1998 and later)
18	81-0275	Piston, Soda, 3.0			
-	81-0384	Piston, Soda, 4.5			
19	03-0169	Spring, Syrup, Flow Control, LEV®	51	02-0133	O-Ring
			52	02-0421	Seal, Nozzle, 4.5
20	03-0171	Spring, Soda, Flow Control, LEV®	53	54-0183	Nozzle Assy, 4.5
21	05-0262	Bonnet, Flow Control			
22	02-0126	O-Ring			
23	05-1919	Plug, Adjustment, Flow Control, White			
—	82-0527/01	Plug, Adjustment Assy, White (Item No. 16, 21-23)			
24	03-0088	Retainer, Flow Control			
25	04-0267	Screw			
26	82-2929	Arm, Paddle, Assy			
27	54-0046	Body Assy, Lower, 3.0			
-	54-0188	Body Assy, Lower, 4.5			
28	02-0408	O-Ring, Nozzle, Red, 3.0 (Used in Valves produced through September 1998)			
29	05-0232	Plate, Bottom, 3.0			
-	05-1108	Plate, Bottom, 4.5			
30	04-0310	Screw			
31	02-0133	O-Ring (Used in Valves produced through September 1998)			
32	05-0281	Plug, Bottom Plate			
33	04-0775	Pin, Lever, Soda			

5.2 LEV® WITH SELF-SERVE LEVER
(MODEL 100SSL, 3.0 OZ/SEC AND MODEL 145SSL, 4.5 OZ/SEC)

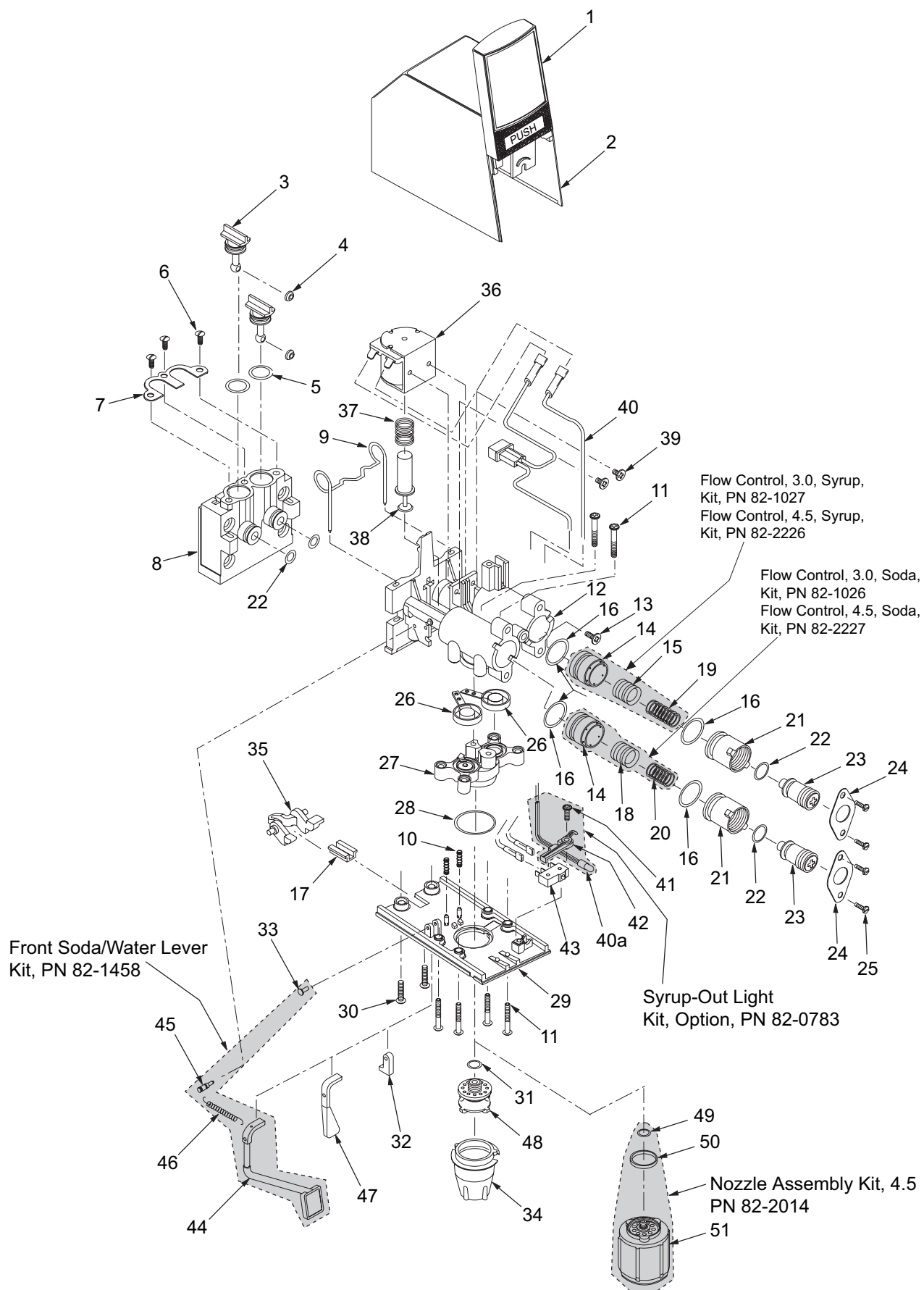


5.2 LEV® WITH SELF-SERVE LEVER

(MODEL 100SSL, 3.0 OZ/SEC AND MODEL 145SSL, 4.5 OZ/SEC) (CONTINUED)

<u>Item</u>	<u>Part No.</u>	<u>Description</u>	<u>Item</u>	<u>Part No.</u>	<u>Description</u>
1	05-0287	I.D. Panel	34	05-0233	Nozzle, 3.0 (Used in Valves produced through September 1998)
1a	54-0057	I.D. Panel (Syrup-Out)			
2	54-0029	Cover Sub Assy	-	05-1463	Nozzle, 3.0 (Used in Valves produced in September 1998 and later)
-	54-0030	Cover Assy (Item No. 1-2)			
-	54-0059	Cover Assy (Item No. 1a-2)			
3	05-0266	Stem, Valve, Mounting Block	35	03-0081	Lever, Spring, Electric
4	05-0267	Washer	36	54-0165	Lever, Self-Serve
5	02-0047	O-Ring	37	05-0238	Yoke, Electric
6	04-0269	Screw	38	52-0288	Coil Assy
7	03-0087	Retainer, Stem, Valve, Mounting Block	39	03-0125	Spring, Solenoid
8	05-0265	Mounting Block	40	10-0117 A	mature
-	82-0274	Block Assy, Mounting (Item No. 3-8, 22)	41	05-0935	Plug, Retainer, Micro-Switch
9	03-0233	Retainer, Valve, 1-Piece	42	26-0265	Micro-Switch
10	03-0143	Spring, Pin, LEV®	43	04-0486	Screw
11	04-0270	Screw	44	09-0120	Lever, Front Soda/Water
12	54-0189	Body, Upper, Assy	45	04-0724	Pin, Stud
13	04-0302	Screw	46	03-0238	Spring, Front Soda/Water
14	81-0274	Sleeve, Syrup/Water, 3.0	47	04-0470	Lever
-	81-0382	Sleeve, Syrup/Soda, 4.5	48	05-0490	Screw
15	81-0273	Piston, Syrup, 3.0	49	05-0274	Holder
-	81-0383	Piston, Syrup, 4.5	50	54-0028	Lever, Soda, 3.0
16	02-0132	O-Ring			Diffuser Assy, 3.0 (Used in Valves produced through September 1998)
17	52-0622	Wire Harness	-	05-1593	Diffuser Assy, 3.0 (Used in Valves produced in September 1998 and later)
17a	52-0902	Wire Harness (Syrup-Out)			
18	81-0275	Piston, Soda, 3.0	51	02-0133	O-Ring
-	81-0384	Piston, Soda, 4.5	52	05-0421	Seal, Nozzle, 4.5
19	03-0169	Spring, Syrup, Flow Control, LEV®	53	54-0183	Nozzle Assy, 4.5
20	03-0171	Spring, Soda, Flow Control, LEV®			
21	05-0262	Bonnet, Flow Control			
22	02-0126	O-Ring			
23	05-1919	Plug, Adjustment, Flow Control, White			
-	82-0527/01	Plug, Adjustment Assy, White (Item No. 16, 21-23)			
24	03-0088	Retainer, Flow Control			
25	04-0267	Screw			
26	82-2929	Arm, Paddle, Assy			
27	54-0046	Body Assy, Lower, 3.0			
-	54-0188	Body Assy, Lower, 4.5			
28	02-0408	O-Ring, Nozzle, Red, 3.0 (Used in Valves produced through September 1998)			
-	05-1108	29 05-0232 Plate, Bottom, 3.0			
-	05-1108	Plate, Bottom, 4.5			
30	04-0310	Screw			
31	02-0133	O-Ring (Used in Valves produced through September 1998)			
32	05-0281	Plug, Bottom Plate			

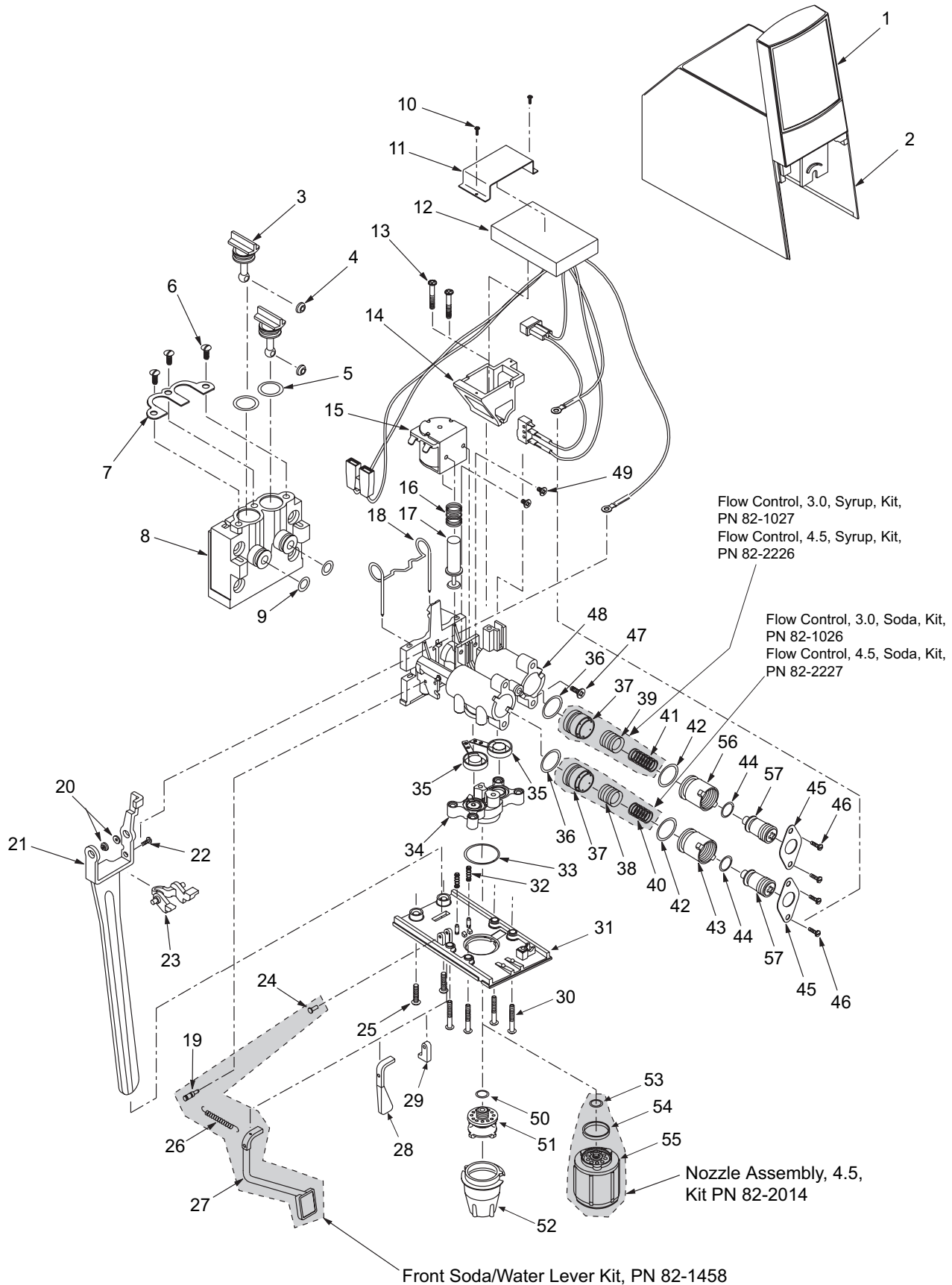
5.3 LEV® PUSHBUTTON (Model 100P, 3.0 oz/sec and Model 145P, 4.5 oz/sec)



5.3 LEV® PUSHBUTTON (Model 100P, 3.0 oz/sec and Model 145P, 4.5 oz/sec) (CONTINUED)

<u>Item</u>	<u>Part No.</u>	<u>Description</u>	<u>Item</u>	<u>Part No.</u>	<u>Description</u>
1	54-0140	I.D. Panel, Large Pushbutton	35	05-0238	Yoke, Electric
2	54-0029	Cover Sub Assy	36	52-0288	Coil Assy, LEV®
-	54-0139	Cover Assy, Large (Pushbutton, Item No. 1-2)	37	03-0125	Spring, Solenoid, LEV®
3	05-0266	Stem, Valve, Mounting Block	38	10-0117	Armature, LEV®
4	05-0267	Washer	39	04-0486	Screw
5	02-0047	O-Ring	40	52-0622	Wire Harness
6	04-0269	Screw	40a	52-0902	Wire Harness (Syrup-Out)
7	03-0087	Retainer, Stem, Valve, Mounting Block	41	04-0470	Screw
8	05-0265	Mounting Block	42	05-0490	Holder
-	82-0274	Block Assy, Mounting (Item No. 3-8, 22)	43	26-0265	Micro-Switch
9	03-0233	Retainer, Valve, 1-Piece	44	09-0120	Lever, Front Soda/Water
10	03-0143	Spring, Pin	45	04-0724	Pin, Stud
11	04-0270	Screw	46	03-0238	Spring, Front Soda/Water Lever
12	54-0189	Body Assy, Upper	47	05-0274	Lever, Soda
13	04-0302	Screw	48	54-0028	Diffuser Assy, 3.0 (Used in Valves produced through September 1998)
14	81-0274	Sleeve, Syrup/Water, 3.0	-	05-1593	Diffuser Assy, 3.0 (Used in Valves produced in September 1998 and later)
-	81-0382	Sleeve, Syrup/Soda, 4.5			
15	81-0273	Piston, Syrup, 3.0	49	02-0133	O-Ring
-	81-0383	Piston, Syrup, 4.5	50	02-0421	Seal, Nozzle, 4.5
16	02-0132	O-Ring	51	54-0183	Nozzle Assy, 4.5
17	05-0491	Filler			
18	81-0275	Piston, Soda, 3.0			
-	81-0384	Piston, Soda, 4.5			
19	03-0169	Spring, Syrup, Flow Control, LEV®			
20	03-0171	Spring, Soda, Flow Control, LEV®			
21	05-0262	Bonnet, Flow Control			
22	02-0126	O-Ring			
23	05-1919	Plug, Adjustment, Flow Control, White			
-	82-0527/01	Plug, Adjustment Assy, White			
24	03-0088	Retainer, Flow Control			
25	04-0267	Screw			
26	82-2929	Arm, Paddle, Assy			
27	54-0046	Body Assy, Lower, 3.0			
-	54-0188	Body Assy, Lower, 4.5			
28	02-0408	O-Ring, Nozzle, Red, 3.0 (Used in Valves produced through September 1998)			
29	05-0232	Plate, Bottom, 3.0			
-	05-1108	Plate, Bottom, 4.5			
30	04-0310	Screw			
31	02-0133	O-Ring (Used in Valves produced through September 1998)			
32	05-0281	Plug, Bottom Plate			
33	04-0775	Pin, Lever, Soda			
34	05-0233	Nozzle, 3.0 (Used in Valves produced through September 1998)			
-	05-1463	Nozzle, 3.0 (Used in Valves produced in September 1998 and later)			

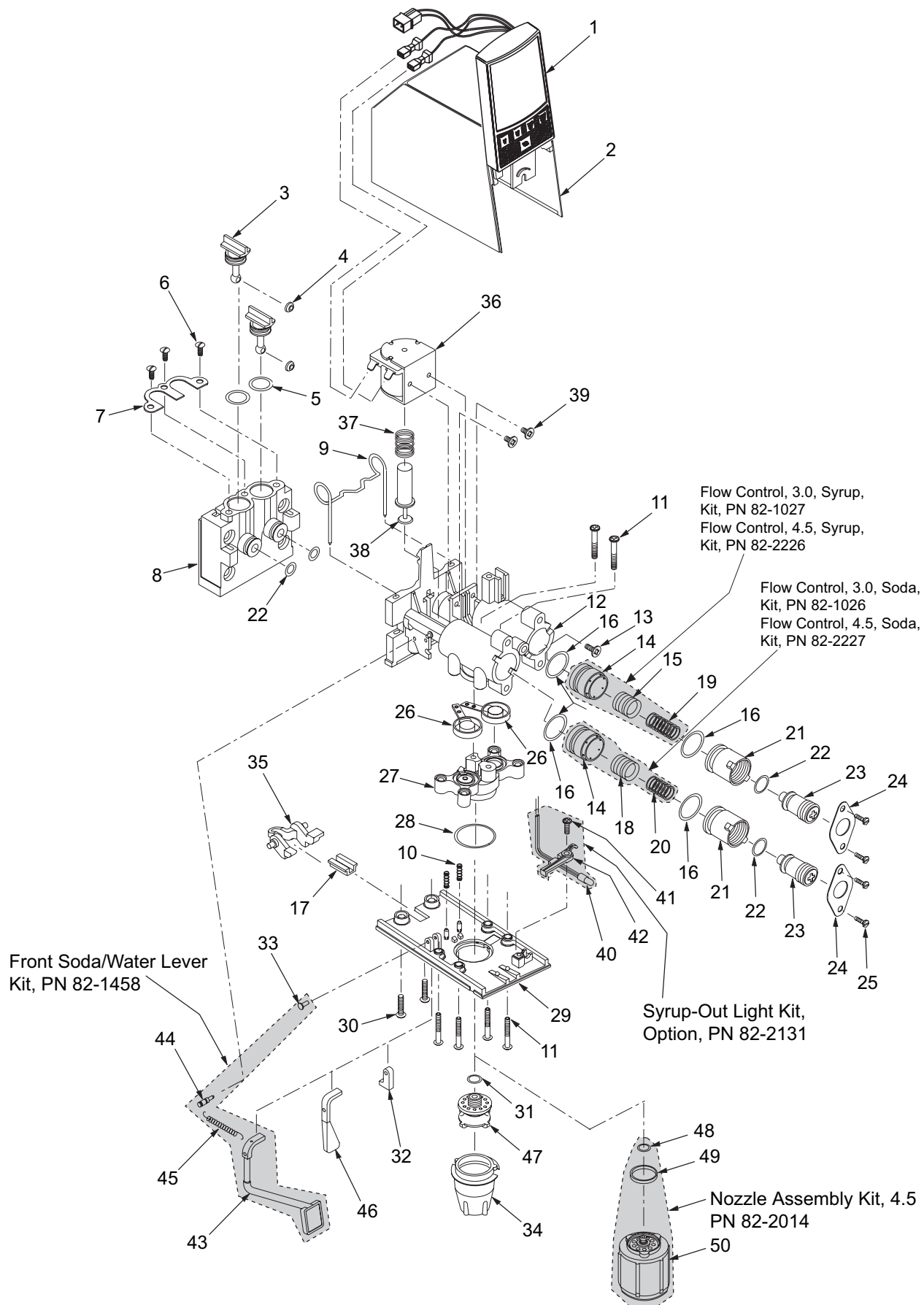
5.4 LEV® SUREFILL (MODEL 100SF, 3.0 OZ/SEC AND MODEL 145SF, 4.5 OZ/SEC)



5.4 LEV® SUREFILL (MODEL 100SF, 3.0 OZ/SEC AND MODEL 145SF, 4.5 OZ/SEC) (CONTINUED)

<u>Item</u>	<u>Part No.</u>	<u>Description</u>	<u>Item</u>	<u>Part No.</u>	<u>Description</u>
1	05-0287	I.D. Panel	-	81-0382	Sleeve, Syrup/Soda, 4.5
2	54-0029	Cover Sub Assy	38	81-0275	Piston, Soda, 3.0
-	54-0030	Cover Assy (Item No. 1-2)	-	81-0384	Piston, Soda, 4.5
3	05-0266	Stem, Valve, Mounting Block	39	81-0273	Piston, Syrup, 3.0
4	05-0267	Washer	-	81-0383	Piston, Syrup, 4.5
5	02-0047	O-Ring	40	03-0171	Spring, Soda, Flow Control, LEV®
6	04-0269	Screw	41	03-0169	Spring, Syrup, Flow Control, LEV®
7	03-0087	Retainer, Stem, Valve, Mounting Block	42	02-0132	O-Ring
8	05-0265	Mounting Block	R 43	05-0796	Bonnet, Surefill, Black
-	82-0274	Block Assy, Mounting (Item No. 3-9)	44	02-0126	O-Ring
9	02-0126	O-Ring	45	03-0088	Retainer
10	04-0478	Screw	46	04-0267	Screw
11	30-7245	Strap	47	04-0302	Screw
12	82-1982	Module, Surefill	48	54-0189	Body Assy, Upper
13	04-0270	Screw	49	04-0486	Screw
14	05-0788	Module Bracket (Used in Valves produced through September 2000)	50	02-0133	O-Ring (Used in Valves produced through September 1998)
-	05-1928	Bracket, PCB, White (Used in Valves produced in October 2000 and later)	51	54-0028	Diffuser Assy, 3.0 (Used in Valves produced through September 1998)
15	52-0288	Coil Assy, LEV®	-	05-1593	Diffuser Assy, 3.0 (Used in Valves produced in September 1998 and later)
16	03-0125	Spring, Solenoid, LEV®	52	05-0233	Nozzle, 3.0 (Used in Valves produced through September 1998)
17	10-0117	Armature, LEV®	-	05-1463	Nozzle, 3.0 (Used in Valves produced in September 1998 and later)
18	03-0233	Retainer, Valve, 1-Piece	53	02-0133	O-Ring
19	04-0724	Pin, Stud	54	02-0421	Seal, Nozzle, 4.5
20	05-0777	Bushing, Lever	55	54-0183	Nozzle Assy, 4.5
21	30-5416	Lever	R 56	05-0262	Bonnet, Flow Control, Red
22	04-0642	Screw, 6 - 32 x 0.250	57	05-1919	Plug Adjust, Flow Control, White Sub Assemblies Available
23	05-0238	Yoke, Electric	R -	82-2992	Plug Adjust Assy, Soda (Items 42, 43, and 44)
24	04-0775	Pin, Lever, Soda	R -	82-0527	Plug Adjust Assy, Syrup (Items 42, 43, and 44)
25	04-0310	Screw	R in margin indicates revision or data change		
26	03-0238	Spring, Front Soda/Water Lever			
27	09-0120	Lever, Front Soda/Water			
28	05-0274	Lever, Soda			
29	05-0281	Plug, Bottom Plate			
30	04-0270	Screw			
31	05-0801	Plate, Bottom, 3.0			
-	05-1544	Plate, Bottom, 4.5			
32	03-0143	Spring, Pin			
33	02-0408	O-Ring, Nozzle, Red, 3.0 (Used in Valves produced through September 1998)			
34	54-0046	Body Assy, Lower, 3.0			
-	54-0188	Body Assy, Lower, 4.5			
35	82-2929	Arm, Paddle, Assy			
36	02-0132	O-Ring			
37	81-0274	Sleeve, Syrup/Soda, 3.0			

5.5 LEV® PORTION CONTROL (MODEL 100PC, 3.0 OZ/SEC AND MODEL 145PC, 4.5 OZ/SEC)



5.5 LEV® PORTION CONTROL (MODEL 100PC, 3.0 OZ/SEC AND MODEL 145PC, 4.5 OZ/SEC)
(CONTINUED)

Item	Part No.	Description	Item	Part No.	Description
1	52-1581	I.D. Panel (Used in Valves produced through May 2000)	29	05-0232	Plate, Bottom, 3.0
-	52-2296	I.D. Panel, PC, Parylene (Used in Valves produced through June 2000 and later)	-	05-1108	Plate, Bottom, 4.5
2	54-0029	Cover Sub Assy	30	04-0310	Screw
-	54-0181	Cover Assy, Large (Items No. 1-2)	31	02-0133	O-Ring (Used in Valves produced through September 1998)
3	05-0266	Stem, Valve, Mounting Block	32	05-0281	Plug, Bottom Plate
4	05-0267	Washer	33	04-0775	Pin, Lever, Soda
5	02-0047	O-Ring	34	05-0233	Nozzle, 3.0 (Used in Valves produced through September 1998)
6	04-0269	Screw	-	05-1463	Nozzle, 3.0 (Used in Valves produced in September 1998 and later)
7	03-0087	Retainer, Stem, Valve, Mounting Block	35	05-0238	Yoke, Electric
8	05-0265	Mounting Block	36	52-0288	Coil Assy, LEV®
-	82-0274	Block Assy, Mounting (Item No. 3-8, 22)	37	03-0125	Spring, Solenoid, LEV®
9	03-0233	Retainer, Valve, 1-Piece	38	10-0117	Armature, LEV®
10	03-0143	Spring, Pin	39	04-0486	Screw
11	04-0270	Screw	40	52-2069	Wire Harness (Syrup-Out)
12	54-0189	Body Assy, Upper	41	04-0470	Screw
13	04-0302	Screw	42	05-0490	Holder
14	81-0274	Sleeve, Syrup/Water, 3.0	43	09-0120	Lever, Front Soda/Water
-	81-0382	Sleeve, Syrup/Soda, 4.5	44	04-0724	Pin, Stud
15	81-0273	Piston, Syrup, 3.0	45	03-0238	Spring, Front Soda/Water Lever
-	81-0383	Piston, Syrup, 4.5	46	05-0274	Lever, Soda
16	02-0132	O-Ring	47	54-0028	Diffuser Assy, 3.0 (Used in Valves produced through September 1998)
17	05-0491	Filler	-	05-1593	Diffuser Assy, 3.0 (Used in Valves produced in September 1998 and later)
18	81-0275	Piston, Soda, 3.0	48	02-0133	O-Ring
-	81-0384	Piston, Soda, 4.5	49	02-0421	Seal, Nozzle, 4.5
19	03-0169	Spring, Syrup, Flow Control, LEV®	50	54-0183	Nozzle Assy, 4.5
20	03-0171	Spring, Soda, Flow Control, LEV®			
21	05-0262	Bonnet, Flow Control			
22	02-0126	O-Ring			
23	05-1919	Plug, Adjustment, Flow Control, White			
-	82-0527/01	Plug, Adjustment Assy, White			
24	03-0088	Retainer, Flow Control			
25	04-0267	Screw			
26	82-2929	Arm, Paddle, Assy			
27	54-0046	Body Assy, Lower, 3.0			
-	54-0188	Body Assy, Lower, 4.5			
28	02-0408	O-Ring, Nozzle, Red, 3.0 (Used in Valves produced through September 1998)			

6. APPLIANCE 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

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