INSTALLATION INSTRUCTION, PARTS LIST
AND CONFIGURATION GUIDE

FOR THE

PEPSI® 4 FLAVOR ELECTRIC DISPENSER
GEN. II
Dispenser Model No. 959

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THIS DOCUMENT CONTAINS IMPORTANT INFORMATION
This manual must be read and understood before the installation and operation of this dispenser.

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PATENT NUMBERS: PATENT PENDING US & FOREIGN
1. DISPENSER DIMENSIONS AND WEIGHT

A. Four Flavor Electric Dispenser weight is 23 lb.
B. Four Flavor Electric Dispenser shipping weight is 26 lb.
C. Four Flavor Electric Dispenser shipping dimensions 12.75” x 18” x 34”

2. WATER, SYRUP AND ELECTRICAL REQUIREMENTS

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<th>Minimum</th>
<th>Maximum</th>
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<tr>
<td>Water/Soda</td>
<td>35 PSIG (2.81 kg/cm²) (275.8 kPa)</td>
<td>70 PSIG (4.92 kg/cm²) (482.6 kPa)</td>
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<td>Syrup (Sugar)</td>
<td>50 PSIG (1.41 kg/cm²) (137.9 kPa)</td>
<td>65 PSIG (4.92 kg/cm²) (482.6 kPa)</td>
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<td>Electrical</td>
<td>Unit intended for use with Class II 36 VDC, 2.5 A power supply</td>
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3. INSTALLATION

A. 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.
IMPORTANT
THIS APPLIANCE IS NOT TO BE USED BY CHILDREN OR PERSONS WITH REDUCED PHYSICAL, SENSORY OR MENTAL CAPABILITIES, OR LACK OF EXPERIENCE AND KNOWLEDGE, UNLESS THEY HAVE BEEN GIVEN SUPERVISION OR INSTRUCTION.

CHILDREN SHOULD BE SUPERVISED TO ENSURE THEY DO NOT PLAY WITH APPLIANCE.

B. (OPTIONAL) ATTACHING DISPENSER TO COUNTERTOP

The 4 Flavor Electric Dispenser can be installed loose on the countertop or mounted to the countertop.

1. If the dispenser will be installed loose, bumper foot pads are factory installed (P.N. 333-0006) and should be used to alleviate sliding of dispenser. (Fig. 3.1)

2. If the dispenser will be mounted to the countertop, remove bumper foot pads by pulling firmly on each pad and dispose of properly. Use fastener kit (P.N. 670-0058) containing the following parts:
   - (4 each) Bolt, 10-24
   - (4 each) Spacer
   - (8 each) Nut, Hex, 10-24
   - (4 each) Washer, Flat

   a. Attach the bolts to the inner support bracket using a washer and nut. Tighten the nut to keep the bolt firmly attached to the inner bracket.
   b. Using the template, locate the desired position of the dispenser and mark the center of the holes on the counter. Drill holes using 13/64 drill bit.
   c. Set dispenser on counter so that bolts protrude through holes in the countertop.

NOTE:
To comply with National Sanitation Foundation (NSF) requirements with the United States, unit base must be sealed to the countertop if no cleaning under unit will occur.

d. Liberally apply Silastic® sealant (such as Dow Corning RTV 730 or equivalent) on base bottom edge.
e. Apply additional sealant around bottom of base. Seal must have a minimum 1/2” radius to prevent crevices and to ensure a complete seal.
f. Allow sealant to dry to MFG recommendations.
g. Assemble washers and nuts to bolts from underneath the countertop. Tighten firmly.

DO NOT OVER TIGHTEN!
C. CONNECTION TO ELECTRICAL POWER

WARNING
VALVE AND LIGHT SWITCHES MUST BE IN THE OFF POSITION WHEN CONNECTING UNIT TO POWER SUPPLY.

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.

1. Connect power supply cord to back of unit as pictured above.
2. Check the unit serial number plate for correct electrical requirements. Do not plug into electrical outlet unless unit electrical configuration, located on serial plate, agrees with local available power supply.
3. Route the power supply cord to a grounded electrical outlet of the proper voltage and amperage rating, and plug in the unit.
IMPORTANT
THIS EQUIPMENT TO BE INSTALLED WITH ADEQUATE BACKFLOW PROTECTION. 
RECOMMENDED PART … APOLLO MODEL NO. DUCLF4A

NOTE:
Water Regulation is highly recommended. Set water regulator to 65 PSIG.

Water pipe connections and fixtures directly connected to a potable water supply shall be sized, installed and maintained in accordance with federal, state and local codes.

D. CONNECTING SUPPLY LINES TO SOURCES
1. Use beverage barb fittings (1/4”) to attach inlet water and syrup concentrate to flex tubing located at end of shut-off blocks. Water and syrup concentrate lines are identified in Fig 3.2. Tubing can be routed through a hole in the countertop. Ensure proper size hose clamps are used to secure tubes.
2. Turn water and syrup concentrate on at the source.
3. Turn water and syrup concentrate on at the shut-off blocks by rotating gray shut-off knobs clockwise (See Fig. 3.3). Verify the water is set to the target pressure of 65 PSIG and the syrup is set to the target pressure.

TO REMOVE FRONT MERCHANDISER

Fig. 3.2
View from back of unit with back panel removed

INDIVIDUALLY LABELED

PLASTIC TIES CAN BE CUT AS NEEDED

Fig. 3.3

Off
On

TURN CAM LOCK COUNTER CLOCKWISE

LIFT MERCHANDISER FROM BOTTOM SLOTS

PUSH DOWN AND THEN OUT ON TOP OF MERCHANDISER

TWIST KNOB COUNTER CLOCKWISE TO UNLOCK AND OPEN LED DOOR
4. Push the VALVES switch to the ON position.
5. Check for leaks.
6. Push the LIGHTS switch to the ON position to activate merchandiser LEDs.

4. **RATIO/BRIX**

*The Schroeder America Dispenser has been thoroughly tested and sanitized prior to shipment. The installer will be required to *ratio/brix* the dispenser.*

**NOTE:**

Water valve has been pre-set and capped to flow at 1.67 oz/s. 
**DO NOT ADJUST WATER VALVE, ONLY ADJUST SYRUP VALVES.**

A. Remove nozzle by twisting clockwise and pull down.

B. Install Schroeder America Syrup Separator (P.N.: 316-0004) in place of nozzle to set ratio.

**NOTE:**

Membrane Switch (Fig. 4.1) is used to actuate the syrup and water solenoid valves. 
The Ribbon Cable (Fig. 4.2) connects the Membrane Switch and PCB Assembly 
and has a locking tab. (Push tab down to release cable from membrane switch) 
The PCB Assembly (Fig. 4.3), in the unit, indicates the locations of corresponding valves.

**Button**  | **Valves Activated**
--- | ---
1 | 1 & 5
2 | 2 & 5
3 | 3 & 5
4 | 4 & 5

---

**Fig. 4.1 (Front of Unit)**

**Fig. 4.2 (Front of Unit, Merchandiser Removed)**

**Fig. 4.3 (Top of Unit)**
C. Activate dispensing valve to fill the separator.
D. Hold a 5.0 to 1 brix cup under the syrup separator and dispense water and syrup into cup to the targeted band widths of the cup.

**NOTE:**
Only adjust the syrup solenoid valves. The water solenoid valve has been pre-set to 1.67 oz/s.

E. To adjust proper ratio, use a screw driver to adjust the flow control (see Fig. 4.4).
F. Repeat process for each syrup valve.
G. Remove syrup separator when adjustments are completed. Replace with dispenser nozzle.

5. **TO ADD DTRAIN**
   - A. Drill 1/4” hole through barbed outlet.
   - B. Add 1/2” drain hose and use Oetiker Clamp.

6. **CLEANING AND SANITIZING**
   The Schroeder America Dispenser is shipped from the factory cleaned and sanitized in accordance with NSF guidelines. The dispenser must also be cleaned and sanitized after installation is complete. It is recommended that the operator provide continuous maintenance as required by the manual and/or state and local guidelines to ensure proper operation.

**IMPORTANT**
“VALVES” & “LIGHTS” SWITCHES ON REAR OF UNIT SHOULD BE IN THE OFF POSITION DURING ANY CLEANING OR SANITIZING UNLESS PRODUCT FLOW IS NEEDED.

A. External/Internal Cleaning Solutions:
   Cleaners (ivory liquid, calgon, etc.) should be mixed with clean potable water at a temperature of 90 to 110 degrees F. The acceptable mixture ratio is one ounce of cleanser to two gallons of water. Any NSF approved equivalent cleaner may be used. Rinsing must be thorough using clean potable water.
B. Internal Cleaning:
   1. Remove top cover.
   2. Wipe inside of the dispenser with a clean cloth.
   3. Inspect to make sure any product residue has been removed.
   4. Wipe with a clean soft cloth.
IMPORTANT
ONLY USE INTERNAL CLEANING SOLUTIONS THAT ARE APPROVED FOR BEVERAGE DISPENSER APPLICATIONS, SUCH AS BevClean™. (NO CAUSTIC CHEMICALS SUCH AS INDUSTRIAL KITCHEN CLEANING CHEMICALS SHOULD EVER BE USED)

C. External Cleaning:
The stainless steel dispenser and merchandiser can be cleaned by wiping with a cloth soaked with warm cleansing detergent. Abrasive cleaning or scouring pads should not be used as they will scratch the dispenser finish.

NOTE:
Nozzle and diffuser must be cleaned daily.

D. Daily Cleaning - Nozzle and Diffuser
1. Remove merchandiser by first turning cam lock counter clockwise, then push down on the top of the merchandiser while pulling outward, and finally up and out of bottom slots.
2. Remove nozzle by twisting clockwise and pull down. Diffuser is not removable.
3. Wash nozzle and diffuser with warm water. Ensure cleaning solution is rinsed off. Residual Solution will cause product off taste.
4. Reinstall nozzle by twisting counterclockwise while pushing up.
5. Reinstall merchandiser.

NOTE:
Nozzle and diffuser must be sanitized biweekly. Ensure sanitary gloves are used for this procedure.

E. Biweekly Sanitizing - Nozzle and Diffuser
1. Prepare sanitizing solution:
   - Prepare a 100 PPM chlorine solution or other FDA approved sanitizer with clean potable water at a temperature of 55˚ to 100˚ F (12.8˚ to 37.8˚ C).
   - Comparable strength: 1/2 fluid oz. un-scented bleach in 1 gallon of water.
2. Remove merchandiser by pushing down on the top while pulling outward, then up and out.
3. Remove nozzle by twisting clockwise and pull down. Diffuser is not removable.
4. Inspect nozzle for cracks or breakage.
5. Wash nozzle and immerse in a container of sanitizing solution for 15 minutes.
6. Wash diffuser with warm cleaning solution and inspect.
7. Wash diffuser and sanitize
   a. (OPTION 1) Use Nozzle Sanitizing Assy. (P.N. 631-0187) accessory:
      Fill nozzle with sanitizing solution and install onto diffuser by twisting counterclockwise while pushing up onto diffuser. Leave on for 15 minutes.
   b. (OPTION 2) If Sanitizing Nozzle Assy. is not utilized, wash diffuser, rinse and immerse in a sanitizing solution for 15 minutes.
8. While the parts are soaking, visually inspect around the nozzle mounting area for syrup residue and wash area with cleaning solution.

WARNING
DIFFUSER IS NOT REMOVABLE. ATTEMPTING TO REMOVE IT WILL DAMAGE DISPENSER.

P.N. 631-0187
10. Remove nozzle from bath; air dry before re-installing onto diffuser.
11. Reinstall merchandiser.

F. Sanitizing Water Circuits:
   Cleaning and Sanitizing are not required for potable water circuits. The potable water lines should remain connected during the cleaning procedures for the concentrate circuits to avoid contamination.
   1. Disconnect concentrate container from product line.
   2. Attach product line to container containing sanitizing solution mixed to mfg. recommendations (100 ppm is recommended)
      a. Using gray Shut-off, turn incoming water off.

   NOTE:
   Sanitizing solution temperature should be between 55° to 100° F (12.8° to 37.8° C).

   3. Prepare enough solution to sanitize from the concentrate source to the dispenser.

   NOTE:
   OPTIONAL - using a fitment removed from a bag in box container. Attach fitment to concentrate fitting. Prepare sanitizing solution in a container and set fitment/fitting assembly in solution.

   4. Push VALVES switch at rear of unit to the ON position.
   5. Press appropriate switch position, solution will begin to flow towards dispensing valve.
   6. When color turns clear, concentrate line is full of sanitizer solution.
   7. Wait 15 minutes.
      a. Reconnect concentrate product line.
   8. Purge sanitizer from line with concentrate product.
   9. Purge until concentrate is flowing from dispensing valve.
  10. Using gray Shut-off, turn incoming water on.
  11. Taste the beverage to verify that there is no off taste.
  12. Repeat for every product or as needed.

WARNING
FLUSH SANITIZING SOLUTION FROM CONCENTRATE LINE AS INSTRUCTED. RESIDUAL SANITIZING SOLUTION LEFT IN SYSTEM COULD DAMAGE LINES AND DISPENSER PARTS. IT MAY ALSO CREATE A HEALTH HAZARD.
7. TROUBLE SHOOTING

A. No water dispensed
   • Check water supply
   • Check Shut-off block knob (is it open)
   • Check ratio/brix adjustment
   • Line plugged
   • Water regulator installed (65 PSI or less)

B. No syrup dispensed
   • Check CO₂ pressure (55 psig +/- 5 psig)
   • Check for product (BIB)
   • Check Shut-off module knob
   • Check ratio/brix adjustment
   • Line plugged

C. Weak product taste
   • Check ratio/brix adjustment
   • Check for plugged line
   • Check Shut-off module knob - completely open
   • Check syrup supply
   • Check target water pressure setting is 65 PSIG

D. Strong product taste
   • Check ratio/brix adjustment
   • Check syrup CO₂
   • Check water supply
   • Check target water pressure setting is 65 PSIG

E. Merchandiser LEDs do not activate when LIGHTS switch is in ON position
   • Light switch not activated
   • Wire connections on LED may be loose
   • AC/DC converter may be faulty (Replace)
8. TO REMOVE AND REPLACE THE PCB (PRINTED CIRCUIT BOARD) (P.N. 600-0013)

WARNING
DISCONNECT POWER FROM SUPPLY CIRCUIT BEFORE OPENING BACK PANEL.

A. Remove the lid, back panel and merchandiser from unit.
B. Disconnect the membrane switch and solenoid valves from the PCB. (Fig. 8.1 & 8.2)
C. Pinch the end point of the stand-off retainer (3 Places) to remove. (Fig. 8.3)
D. Slowly pull off PCB while pinching retainer. (Fig. 8.4)
E. PCB is now removed.
F. At this time, the PCB protective cover can be replaced if required. (Fig. 8.5)
G. Replacing PCB
   1. Position wires between protective cover and PCB; line up holes on PCB with stand offs and gently press in place. (Fig. 8.6)
   2. Connect solenoid valves into the correlating position of the PCB. (Fig. 8.7)
   3. Connect the membrane switch to PCB.
   4. Replace unit back panel and lid.

Fig. 8.1 (Top of Unit)  Fig. 8.2 (Top of Unit)

Fig. 8.3 (Top of Unit)  Fig. 8.4 (Top of Unit)

Fig. 8.5 (Top of Unit)  Fig. 8.6 (Top of Unit)  Fig. 8.7 (Top of Unit)
INCLUDED ACCESSORIES

CUP REST
P.N. 661-0019

DRIP TRAY
P.N. 265-0752

GROMMET, CAN, BLACK, BLIND, TEA
P.N. 210-0030

1/4 BARB, W/ O-RINGS, STAINLESS STEEL FITTING
P.N. 625-0004

FLOW CONDITIONER NOZZLE
P.N. 265-0718
OPTIONAL ACCESSORIES

SHUT-OFF TOOL
P.N. 316-0005

FLOW CONTROL TOOL
P.N. 316-0006

SEPARATOR
P.N. 316-0004

NOZZLE ASSY, PLUGGED,
SANITIZING, 4FLVR TWR
P.N. 631-0187

DRAIN TUBING
P.N. 030-0017

1/4 90 DEG, BARB, W/ O-RINGS,
STAINLESS STEEL FITTING
P.N. 625-0013

KIT, COUNTER MOUNT
INSTALL, SCREWS
P.N. 690-0058
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<th>DESCRIPTION</th>
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<td>PISTON, WATER, 4.5 OZ/SEC</td>
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<td>SLEEVE, WATER/SYRUP, 4.5 OZ/SEC</td>
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<td>BODY, VALVE, SFCV, NATURAL</td>
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BEVERAGE DISPENSER
PARTS AND EQUIPMENT
LIMITED COMMERCIAL WARRANTY

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Schroeder America

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