

# CORNELIUS LEOPARD VALVE EXCHANGE TO SFV1 ON ICE DRINK UNITS

## FIELD CONVERSION INSTRUCTIONS - OCTOBER 27, 2011



**WARNING:**

Disconnect power to the unit before servicing. Follow all lock out/tag out procedures established by the user. Verify all power is off to the unit before performing any work.

**Failure to comply could result in serious injury, death or damage to the equipment.**

Required Parts and Tools for Exchange	
• Correct number of SFV1 Valves w/ backblocks (attached)	• Correct number of red O-rings (Cornelius P/N 4073) to replace on fittings from ED unit (2 per fitting, 4 per valve)
• Flavor labels for SFV1 to match store's specific flavors	• Phillips screwdriver
• Leopard backblock wrench to turn off Leopard backblock ports.	• Tool for O-ring removal.
• Replacement O-rings, screws & washers, if necessary (provided with kit)	
• Food grade approved glycerin or silicone lubricant for lubricating O-rings.	

1. Ken's writes the Store Name, Store #, Customer, Location, Date, Invoice #, Service Being Performed, & Tech ID on an erase board and takes a photo of each unit being serviced before & after service.



2. Shut down Backroom Re-Circ unit.
  - A. Turn off regulators to B-I-Bs.
  - B. Purge system.
  - C. Disconnect tubes from bags of syrup an bulk Coke (to prevent drainage after depressurization).
  - D. Turn Carbonator off.
  - E. Depressurize ABS unit and place unit in Manual mode to silence alarm.

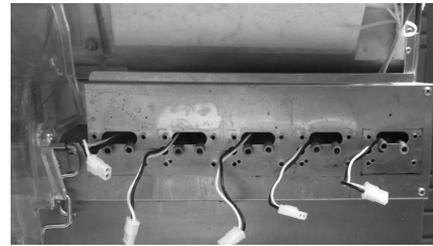
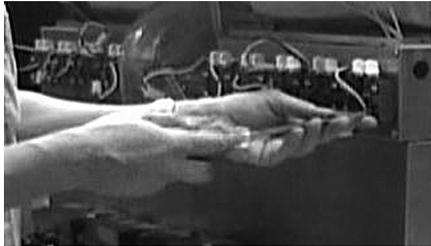
3. On each ED unit:
  - A. Remove Merchandiser.
  - B. Remove valve covers (note flavor order)
  - C. Manually dispense each valve to depressurize them.
  - D. Shut off backblocks.
  - E. Unplug power to the valves.
  - F. Remove all Leopard valves.



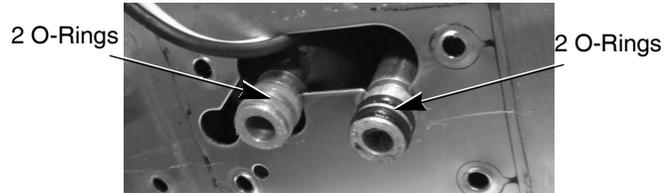
4. Make sure water and syrup lines are fully emptied by opening each backblock and draining fluid into an empty cup.



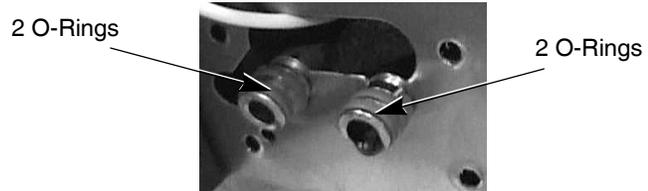
5. Remove the Leopard backblock by removing the 4 screws on the block. Make sure not to damage the back panel or the screws.



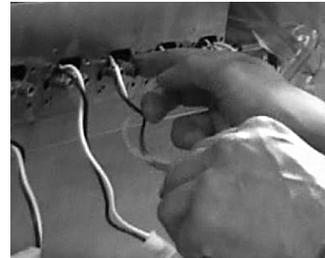
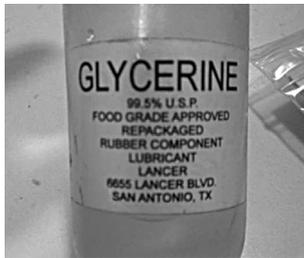
6. Remove the O-rings from both the water and syrup fittings on the back panel. (2 O-rings per fitting and 4 O-rings per valve.)



7. Install the new Red O-rings (P/N 4073) supplied with the SFV1 valve.



8. Apply food grade approved glycerin or silicone lubricant liberally to the O-rings.



9. Install SFV1 Backblock:

A. Slide the wires extending from the back panel back into the slot in the back panel.

**NOTE: Be Careful not to damage or cut the insulation.**

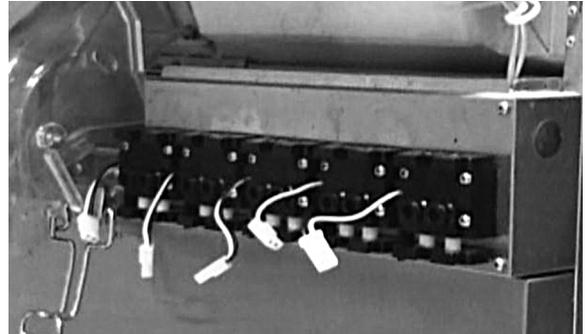
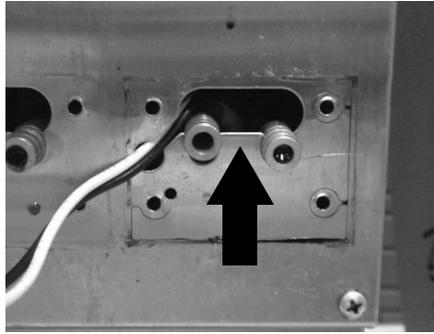
B. Slide the wires into the side groove on the left side of the backblock, as shown.

C. Press the backblocks carefully onto the fittings, making sure that the O-rings do not roll or move.

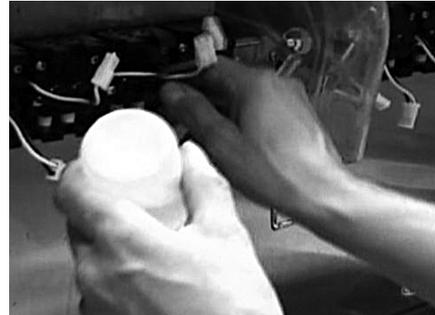
D. Install the screws in a cross pattern, (top right, bottom left, top left, bottom right)

**NOTE: Install screws finger tight until all screws are installed. Then tighten using the same cross pattern.**

**CAUTION: DO NOT OVERTIGHTEN! OVERTIGHTENING MAY STRIP THE BACK PANEL.**



10. Apply food grade approved glycerin or silicone lubricant liberally to all backblock O-rings on the ports.

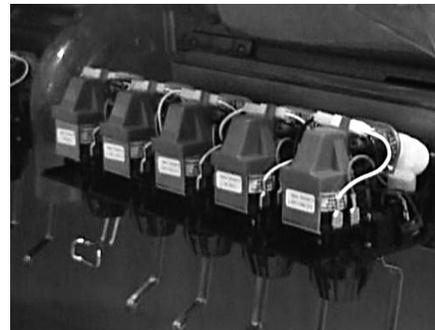


11. Install the SFV1 valves:

- A. Press the valve onto the ports while depressing the locking clip on the left side of the backblock and pushing up on the bottom of the backblock.

**NOTE: Backblock will click when valve is fully locked on.**

- B. Plug back panel connector to the valve plug and route wire under solenoid, if possible.



12. Turn on Backroom re-circ unit:

- A. Reconnect all syrup bag connectors and bulk Coke.
- B. Turn Carbonator on (set to 105 psi)
- C. Turn air on to syrup pumps (set to 65 psi)
- D. On ABS, go to Manual Mode and push each flavor and water button to ensure system is free of air pockets.

13. On ED Unit:

- A. Dispense each valve to repressurize and remove air from the lines.
- B. Set water flow rate (6 seconds on new BRIX cup, 4 seconds on old BRIX cup) on each valve according to the requirements of each flavor.
- C. Set ratio to even (0 bars) on each valve according to the requirements for each flavor (adjust syrup side only)
- D. Install cover (hold wire down with left hand while installing to allow ease of installation)
- E. Install cover cap.
- F. Apply flavor stickers according to the stores specific flavors and order
- G. Add merchandiser to each unit.

14. Write the Store Name, Store #, Customer, Location, Date, Invoice #, Service Being Performed, & Tech ID on an erase board and take a photo of each unit being serviced after service is complete.

