

VIKING SUPERBOWL

NOTE: Units ordered as a Laundry SuperBowl Complete or Laundry SuperBowl Shroud Kit complete are shipped with a ChemSaver Laundry Trigger Board (CLTB). For instructions related to connecting a SuperBowl to a laundry machine for automatic injection via the CLTB, please see the separate instruction sheet for the CLTB board.

SPECIFICATIONS / RECOMMENDED OPERATING CONDITIONS RELATED TO THE BOWL

Water Pressure: Maximum 40 PSI Dynamic
Minimum 15 PSI Dynamic

If necessary, pressure can be adjusted by installing an in-line regulator to control the water pressure to the Viking Bowl.

Water Temperature: Some solid products are run with cold water. **We do not recommend using water that is more than 140 degrees Fahrenheit.**

Notes:

- The Viking Bowl accepts a standard 6" jug with a 100MM neck finish. We offer a 5" ring adapter kit for a 5" diameter jug.
- Colored Viking Bowls are available – call for details.
- Private label logo is available on the Viking Bowl. Call for details.
- Viking manufactures screen caps for encapsulated detergent. Call for details.

Nozzles:

- The Viking Bowl comes with a Standard Spray Nozzle installed. The standard nozzle is used for both powder and solid products.
- The Cone Nozzle provides the same spray pattern as the Standard Nozzle but it is cone shaped to shed water and product after feeding is complete.
- The Powder Nozzle provides a low flat spray and should be used with powdered products only.
- The NDB Nozzle is for locations where low water pressure is too low. It has a smaller orifice and will provide a better spray pattern at lower pressures. It will produce lower flow rates than any of the other nozzles.

UNIT DISASSEMBLY FOR MOUNTING AND PROGRAMMING

To mount the unit and install the batteries, you must remove the bottom piece of the shroud assembly. Begin by removing the black plastic nut from the threaded barb on the bottom of the bowl. Next, while holding the top half of the bowl shroud in place, remove the bottom piece by pulling down and over the threaded barb on the bottom of the bowl. Put the bottom part of the assembly with the solenoid and circuit board aside.

MOUNTING THE BOWL

To mount the bowl, choose a location on the wall that will allow gravity feed of the chemical to the dispensing point. You don't want to be more than 5' from the bottom of the Viking Bowl to the dispensing point. Locate the bowl within reach of the end user so that the button is accessible. Unless you plan on installing a remote switch or triggering the unit from a laundry machine with the CLTB, the unit should be installed within reach of the end user so that they can push the start button on the front of the unit. The 5/8" I.D. clear PVC tubing from the Bowl should run down to the dispensing point.

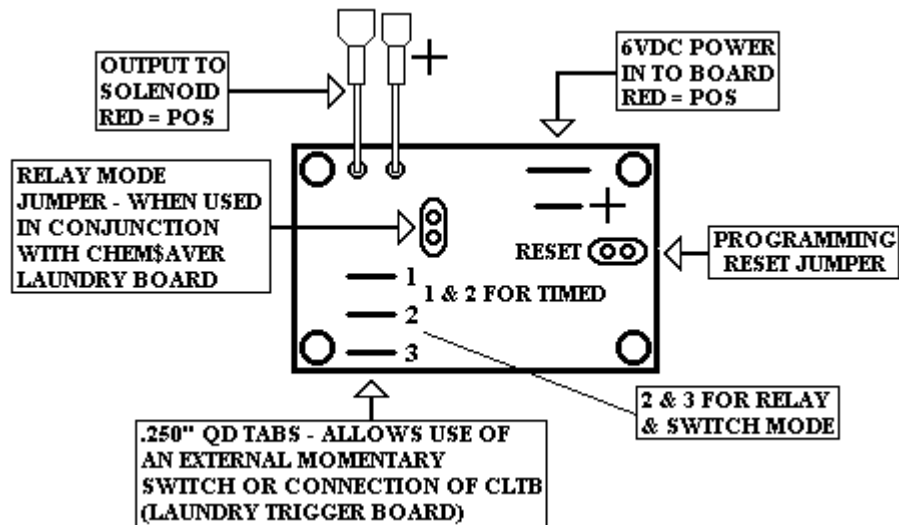
1. Mount the Viking Bowl using screws and anchors provided. **Allow enough room above the bowl to insert and remove containers of product.**
2. After mounting the bowl, do not attach water lines and bowl tubing until after battery installation, programming and shroud re-assembly.

BATTERY INSTALLATION

NOTE: The unit is shipped with the reset jumper on one of the two pins of the reset base. The unit will IMMEDIATELY go into Programming Mode when the last AA battery is installed. Review the programming section of the instructions before installing the last AA battery. If you are unfamiliar with programming, wait to install the batteries until after you have reviewed the programming section.

As soon as you install the batteries, the unit will enter the programming mode. With the bottom of the equipment shroud in your hand, you can install the batteries and program the unit. To install the batteries, slide the cover off the battery carrier and place batteries per the diagram.

RELAY BASE NOTE: Unless you plan on using the unit in conjunction with a Chem\$aver Laundry Trigger Board on a programmable commercial laundry machine, NEVER PLACE THE RED JUMPER ON BOTH PINS OF THE RELAY BASE. THIS WILL LOCK THE UNIT INTO RELAY MODE AND THE UNIT CANNOT BE RESET USING THE RESET BASE. POWER WOULD HAVE TO BE REMOVED FOR AS MUCH AS 10 HOURS TO RESET THE UNIT. WHEN THE RED JUMPER IS NOT IN USE, PLACE IT ON ONE OF THE TWO RESET PINS.



QUICK PROGRAMMING GUIDE FOR A NEW UNIT AND INSTALLATION:

- Programming the unit takes about 80 seconds PLUS the run time you wish to program.
- Install all four AA batteries and the LED begins to flash dimly 1 second on / 1 second off. **You have 30 seconds to start programming the unit.**
- Press and release the button ONCE to START the run time count (while looking at your watch).
- The LED will continue to flash (more brightly now) 1 second on / 1 second off – it is counting seconds.
- Press and release the button ONCE to STOP the run time count once the desired run time has elapsed.
- The unit will now prompt you to enter a lockout if desired. **If no lockout is desired, do nothing until the led comes on for 10 seconds.**
- 1 Solid LED Flash – Press the button **after** the flash IF YOU WANT A 2.3 MINUTE LOCKOUT.
- 2 Solid LED Flashes – Press the button **after** the 2nd flash IF YOU WANT A 5.8 MINUTE LOCKOUT.
- 3 Solid LED Flashes – Press the button **after** the 3rd flash IF YOU WANT A 11.6 MINUTE LOCKOUT.
- LED will come on for 10 seconds prompting you to choose mid cycle shut off capability.
- If you DO NOT want the end user to be able to stop the feed mid cycle, do nothing.
- To engage Mid Cycle Shut Off, press and release the button once AFTER THE LED turns off.
- The LED will light one more time for 10 seconds to indicate the end of the programming sequence.
- After programming is complete, install the cover on the battery carrier and secure with the screw.

UNIT PROGRAMMING: GENERAL – ENTERING PROGRAMMING MODE & RESETTING

IF A LOCKOUT IS IN USE AND ACTIVE, THE UNIT CANNOT BE RESET UNTIL THE LOCKOUT IS OVER!!

JUMPER RESET: If the unit is powered (either with batteries or a plug in adaptor) and programmed, you can do the following to reset the unit and enter programming mode. All units are shipped with a two-pin jumper that arrives installed on ONE of the “RESET” base pins.

- Place the jumper on **both pins** of the two pin jumper base marked “RESET”.
- Press and release the button on the front of the unit once – the LED will come on and stay on.
- Remove the jumper (and replace it on ONE of the two RESET base pins for future use). As soon as the jumper is removed, the LED will begin flashing indicating that it is in programming mode – see UNIT PROGRAMMING – SPECIFIC.

If you replace the jumper on both pins of the base marked “RELAY”, the unit will not operate properly. See the board illustration on page 2 and RELAY BASE NOTE on page 1.

DEFAULT PROGRAM: If you don’t press any buttons for 125 seconds after the unit enters programming mode, a default setup of 35 second run time, no lockout, no mid-cycle shut off will be programmed.

UNIT PROGRAMMING: DETAILED

The programming consists of three parts, all consecutive, run time, lockouts, and mid cycle shut off.

SETTING A RUN TIME:

1. Install 4 AA batteries – we recommend that you use alkaline. If you are using the unit with the optional plug in adaptor – plug the unit into an outlet. When the unit enters programming mode, the LED will begin flashing 1 second on, 1 second off. You will have approximately 45 seconds to begin setting the “run” time for the valve.
2. Press the button on the front once. The LED will change its pattern from a faint light to a strong light to tell you it is “counting”. Once the time you wish to program (dispense) has elapsed press the button again and the run time will be saved. If you do not set a time, a default feed time of approximately 35 seconds will be set. The maximum feed time on this unit is approximately 10 minutes.

CHOOSING A LOCKOUT TIME:

3. LOCKOUT. Once you have programmed the run time, the LED will flash three different patterns that indicate the three lockout time options. **If you don’t want lockout, do not press the button during this part of the programming.** If you want to use a lockout to prevent soap waste, refer to the chart below for options. To choose a lockout, press the button during the 5 second pause AFTER the appropriate 1, 2, or 3 flash sequences.

1 FLASH – Press the button during the 5-second pause **AFTER** the flash for a 2.3 minute lockout.

2 FLASHES – Press the button during the 5-second pause **AFTER** the 2nd flash for a 5.8 minute lockout.

3 FLASHES – Press the button during the 5-second pause **AFTER** the 3rd flash for an 11.6 minute lockout.

MID-CYCLE SHUT OFF:

After the lockout portion of the programming, the LED will come on steady for 10 seconds. If you want the end user to be able to use a shorter run time than is programmed by pressing the button while the unit is feeding and manually stopping the cycle, i.e. MID CYCLE SHUT OFF, press the button during the 5 second pause after the LED is lit. If you do not want mid-cycle shut off, don't press the button. After the 5 second pause, the LED will light one more time for 10 seconds, indicating the end of the programming sequence. Once you have finished programming the unit, run it through a cycle to verify your settings are where you would like them.

REASSEMBLY OF SHROUD (See Attached Diagram)

After programming is tested and complete, you need to reattach the shroud bottom to the mounted Viking Bowl. This procedure is the opposite of removal. With the gasket already in place disregard Figure 1; Flex out and slide bowl shroud top over the gasket and back on to the bowl (Fig. 2); Take bottom of shroud and locate bosses on back in to mounting holes for the bowl and begin to move up in to place (Fig. 2). Take special care to insure that the mating pieces at the back of the shroud assembly join together correctly. These mating parts must match up properly to insure a water resistant fit. Once the two halves are matched together on the bowl, thread the plastic nut onto the threaded barb and hand tighten (Fig. 3).

With the two plastic pieces assembled on the bowl, use the compression nut and ferrule on the flexible stainless tube to attach the tube assembly to the upward pointing port on the solenoid valve. Secure this compression nut using a one half-inch wrench. Do not over tighten. With the program set and the unit reassembled, you can complete the installation.

1. Run and secure a 1/4" OD water line from the water source to the input side of the brass solenoid valve. **NOTE:** Do **NOT** tap a hot water line **AFTER** a booster heater for a feed line to the solenoid. The temperature of the water that will flow to the bowl must not exceed 140 degrees Fahrenheit.
2. Attach the clear feed tubing to the bottom of the Viking Bowl. Locate the other end of the tubing at the dispensing point and cut off any extra.
3. Cycle the dispenser and check for leaks at all connections. Tighten any loose compression nuts. A small trickle of water from the spray nozzle is normal when the solenoid valve is active and no product container is in place.

AA BATTERIES - LOW BATTERY INDICATOR LIGHT:

Due to electronic component tolerances on the circuit board, types of batteries, water pressure and dispenser usage it is impossible to tell you exactly how much AA battery life is remaining when the Low Battery Indicator light comes on. Every time the end user presses the button to activate the ChemSaver unit, the circuit board checks the voltage of the AA batteries. If the batteries are low, it will flash the Low Battery LED 2 times before opening the solenoid. This is the only time (aside from programming the unit) that this LED will light. This is a visible indicator to the end user to help you prevent an unwanted trouble call. Make them aware of this feature; ask them to let you know when it starts flashing so that you have the time to schedule a visit instead of having to go out on an emergency call. Obviously if you are in the account on a routine basis, you can check for low battery yourself by activating the unit and seeing whether or not the Low Battery LED flashes.

BATTERY LIFE AND PRESSURE:

We recommend alkaline batteries for this unit. High-pressure water (>50 PSI Static) will require more amperage from the batteries to open and close the solenoid valve. It will also **significantly decrease your battery life**. We recommend providing water to the unit at a static pressure of 30-50 PSI. You may want to install an in line pressure regulator to achieve this. Remember that valves of any kind restrict the flow but do NOT regulate pressure. **With a water pressure of 100 PSI your batteries will last approximately 97.5% less that with water pressure of 50 PSI.**

WARRANTY

Viking LLC, A DEMA Company products are warranted against defective material and workmanship under normal use and service for one year from the date of manufacture. This limited warranty does not apply to any products which have a normal life shorter than one year or failure and damage caused by chemicals, corrosion, improper voltage supply, physical abuse or misapplication. Rubber and synthetic rubber parts such as "O" rings, diaphragms, squeeze tubing and gaskets are considered expendable and are not covered under warranty. This warranty is extended only to the original buyer of Viking LLC products. If the products are altered or repaired without prior approval of Viking LLC, this warranty will be void.

Defective units or parts should be returned to the factory with transportation prepaid. If inspection shows them to be defective, they will be repaired or replaced without charge, F.O.B. factory. Viking LLC assumes no liability for damages. Return Merchandise Authorization (RMA) number to return units for repair or replacement must be granted in advance of return.

