


# QUICK START GUIDE

## SPRITE TL with 115VAC Power Cord and 4-Conductor Signal Cable

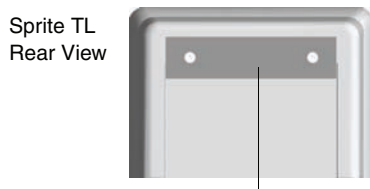
### INSTALLATION

<b>Caution</b> 	<p>All high voltage wiring must be performed with the cable provided and be enclosed in flexible conduit, seal-tite or other housing approved for damp locations.</p> <p>Installation should be performed only by experienced installers in accordance with all applicable electrical and plumbing codes.</p> <p>Disconnect all wash machine and dispenser power during installation or at any time the dispenser cabinet is opened.</p> <p>Always verify all voltage sources with meter.</p>
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### Mechanical Installation

<b>Note</b>	<p>Choose a suitable mounting location that:</p> <ol style="list-style-type: none"> <li>(1) Provides the machine operator with access to the dispenser front panel and</li> <li>(2) Is within close proximity to the washer and product containers.</li> </ol>
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### Unit Mounting



Hang unit from this lip onto mounting bracket.

1. Mount unit in suitable location with mounting bracket and hardware provided.
2. Cut tubing/hose (not provided) to appropriate length and connect from discharge (right side) pump to the washing machine inlet port (for liquid products).
3. Cut tubing/hose (not provided) to appropriate length and connect from intake (left side) pump to the product containers.

### Electrical Installation

<b>Note</b>	<p>The Sprite TL is double-insulated. No earth/ground connection is provided or required.</p> <p>Signal wiring is via one cable that is routed to the signal wiring location in the machine.</p>
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### 115 VAC

Plug power cord into 115V outlet.

### Signal Wiring

Input signal wire pairs are optically isolated signal inputs that accept signal voltages ranging from 24 - 240VAC (or 24VDC).

- Violet and white/violet = Signal 1
- Yellow and white/yellow = Signal 2

Signal wiring only applies to Automatic & Sequence Modes. Signal inputs are ignored in Push-Button Mode. (See “*USER MODE*” on page 1-4 for an explanation of operating modes.)

**Automatic Mode (Au)**—Connect violet and white/violet signal wires to supply signal wiring connections for pump 1 (left pump).

Connect yellow and white/yellow signal wires to supply signal wiring connections for pump 2 (right pump).

**Sequence Mode/Occurrence (oc)**—Connect signal wire pairs to washing machine fill valves (i.e. violet and white/violet to cold fill valve coil and yellow and white/yellow to hot fill valve).

### Maintenance & Specifications

Routine maintenance includes wiping dispenser clean with a damp cloth and periodically replacing Pump Tube.

Spare Parts	
Pump Tube, Detergent, Silicone, (incl. Barb Fittings) 10-pk.	13-07719-111
Pump Front (incl. Captive Screw)	13-06398-05
Pump Spinner	13-06396-00
PC Board (incl. Upper Cabinet Front)	13-06393-16
Power Transformer	13-06394-00
Pump Motor Assembly (left)	13-06523-01
Pump Motor Assembly (right)	13-06524-01

Specifications	
Size	6" W x 8.875" H x 4.88" D 15.24 cm W x 22.7 cm H x 12.38 cm D
Weight	5.98 lbs. (2.71 kilos)
Temperature	120° F Maximum
Power	90 to 130 VAC, 50/60 Hz. 0.5 amps (max)
Pump Flow Rate	5.25 oz./minute (156 mls/minute)

**Note:** Specifications subject to change without notice.

## PROGRAMMING

Refer to “Programming Menu Screens” on page 1-3 for information on moving through the programming menus.

### Input Installer Password

A password is required for access to programming. The factory pre-set password is 123. To change the password, see “Password Edit–Pin” on page 1-2.

<b>Note</b>	You have 10 seconds to input the correct password. An incorrect password returns you to the Home Screen.
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To input the password:

1. Press and hold ENTER for two seconds to access the Password input screen.
2. Press SCROLL to change the blinking digit to the desired value. Press NEXT to move to the next digit.
3. Repeat for next two digits, then press ENTER when correct password displays.

### Prime Pump “P-1”

Press SCROLL to select pump number. Press ENTER to turn pump on. Press ENTER again to turn the pump off. Pump prime is automatically ended after 5 minutes if pump is left on.

### Clear Load Counter “CLr”

Display toggles every two seconds between CLr and load count (all formulas). Press ENTER to reset.

### Operating Parameters “oP”

Display toggles every two seconds between oP and the current selection. Press ENTER to select Au (Automatic), Pb (Push Button), or oc (Occurrence/Sequence) mode of dispenser operation. (See “USER MODE” on page 1-4 for information on the three operating modes.)

### Lockout Period “LP”

Press ENTER to view the lockout period, in minutes. Input is the same as Password input. 000 = Lockout off.

<b>Note</b>	In Sequence Mode, program the lockout period to be longer than the TOTAL of all programmed pump run and delay times. The lockout period should approximately match the washer cycle time to run a complete load
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### Formula Program “F-1”

Press SCROLL to select the formula number (1- 4) to program. Press ENTER to move through the Formula Program menu loop (P1, D1, A1, Fin) for that formula.

#### Pump Amount “P1A”

The display toggles every 2 seconds between the stored run time (in seconds) for the selected pump number and Pxx.

1. Press SCROLL to select the desired pump number.
2. To set pump run time, press and hold ENTER for two seconds to start pump (display increments in seconds while pump runs).

3. When desired time/volume is reached, press ENTER again to stop the pump and set the value.
4. Repeat for all desired pumps within the current formula selection.

#### Delay Time “D1A”

Press SCROLL to select pump number that needs a delay time, then press ENTER. Input delay time (same input method as Password input), in minutes.

#### Assign Pump “A1A”

(Only active in Sequence Mode.) Assign pump numbers to signal sequence occurrences.

1. Press SCROLL to select pump number, then press ENTER to access occurrence input screen (oc).
2. Press SCROLL to assign the signal occurrence for the previously selected pump number.
3. Press ENTER to return to “F-1.”

### Finish Program “Fin”

Press ENTER at this screen to return to the F-1 formula number selection screen in the main menu loop.

### Filter Duration “Fd”

Press ENTER to set Signal Filter Duration (same input method as Password input) in seconds (0-19, default 3).

<b>Note</b>	In Sequence Mode, set a Filter Duration time that is long enough to filter out extra fill signals that may occur as the washer calls for more water, etc. Typically, leave at default setting for Automatic mode.
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### User Prime “uPr”

Every two seconds the screen toggles between UPr and current User Prime setting (on or off). Press ENTER to change this setting.

### Password Edit “Pin”

Choose any three-digit number as a new password. Press SCROLL to change the blinking digit to the desired value. Press NEXT to move the blinking digit. Repeat for all digits, then press ENTER to set the new password.

<b>Note</b>	Be sure to make note of any password changes! Access to Programming is not available if the password is lost!
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### Exit Program “End”

Press ENTER to exit Programming and return to User Mode.

### Restore Factory Defaults

To clear all values and restore factory settings, press and hold SCROLL for 2 seconds, then press ENTER (while still pressing SCROLL). “FAC” displays to indicate that you have restored factory settings and cleared the dispenser’s memory (including counter reset to zero).

Press ENTER again to return to User Mode.

# Programming Menu Screens

**Input Installer Password**

Press & Hold 2 Seconds

Select First Digit

Select Second Digit

Select Third Digit

To Program Mode

**Guide To Icons**

Next key—moves

Scroll key—changes

Enter key—action

Gray digit indicates blinking

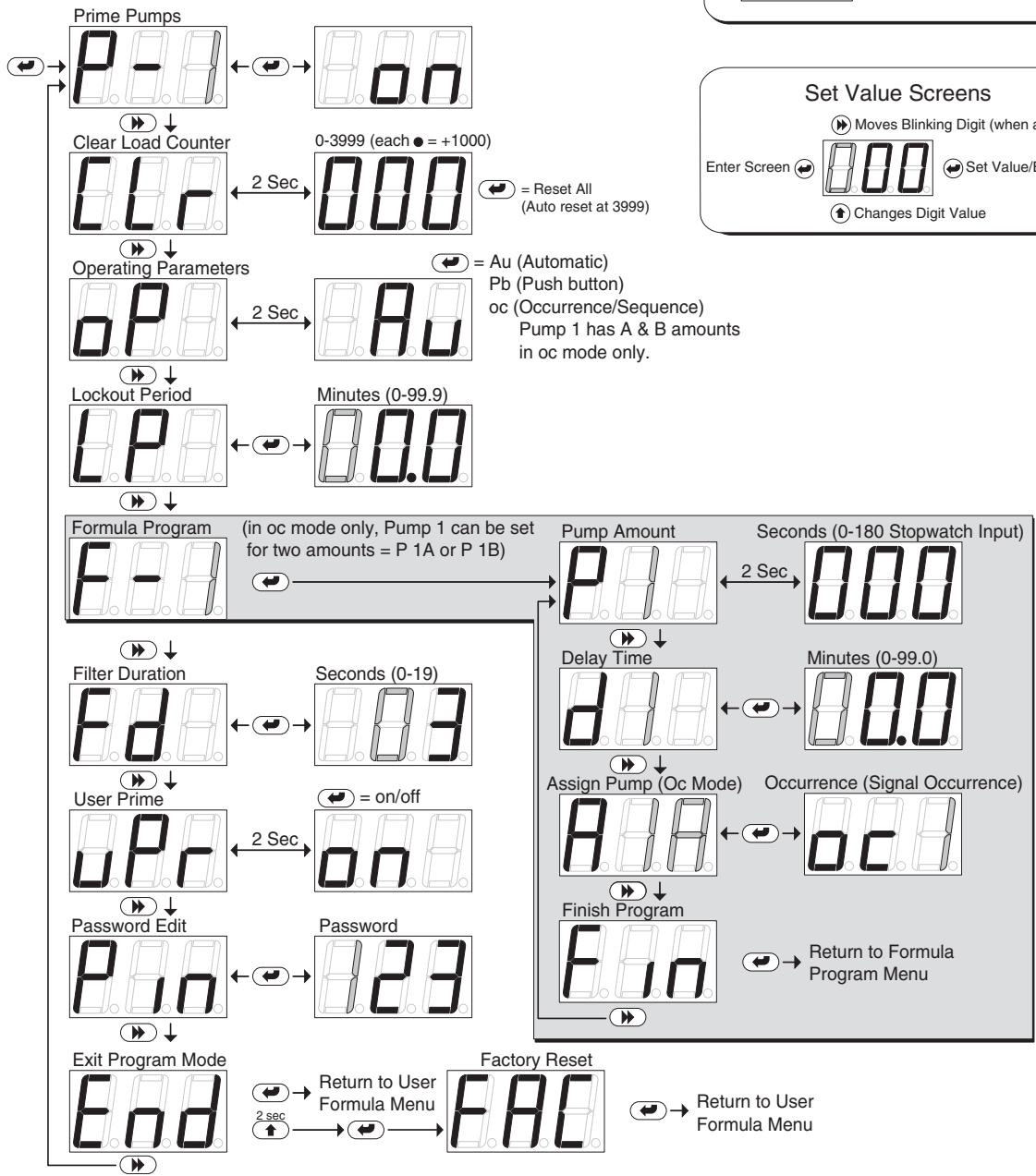
**Set Value Screens**

Moves Blinking Digit (when applicable)

Enter Screen

Set Value/Exit Screen

Changes Digit Value



## USER MODE

The Sprite TL dispenser offers three modes of operation:

**Automatic Mode** runs each pump program (program = delay time + run time) one time when it receives a qualified input to the respective signal input. The Lockout Timer begins when the first pump program starts (beginning of delay time). During this lockout period, no pump may run more than once (regardless of the number of times the signal input occurs). The display shows signal status, pumps running, and lockout status.

**Sequence/Occurrence Mode** is an alternate automatic logic where signals from input numbers 1 and 2 act as a single logic input signal. Occurrences of the signals are counted to determine when each pump runs, based on pump-assignments in the (“A1A”) assignment screen in the formula programming menu. Simultaneous input signals count as one signal occurrence. Pump 1 has two programmable amounts, A and B, which are treated in Sequence Mode as separate pump programs. The display shows signal status, pumps running, and lockout status.

**Push Button Mode** relies on a user to press a button to start the wash formula program. The user selects the formula number, then starts the wash formula program by pressing and releasing ENTER within 2 seconds. Pumps run as programmed via programmed delay and run times. During the lockout time, all start-button presses are ignored (except Password input). The display shows pumps running and lockout status.

<b>Note</b>	Password input and User Prime (if enabled) will reset lockout timer and end wash load.
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### Formula Selection

From a Home Screen, press SCROLL to select programmed formulas (1-4).

### View Load Counter

From a Home Screen, press NEXT once to display “L”. Load counter (all formulas) will toggle between “L” and load count since Load Counter was last cleared.

### Prime Pumps (when enabled)

1. From a Home Screen, press NEXT twice to display “P 1.”
2. Press SCROLL to select pump number to prime.
3. Press ENTER to turn selected pump on or off.

<b>Note</b>	Prime Pumps is only available when unit is not in a lockout timer period.
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### Password Access to Programming

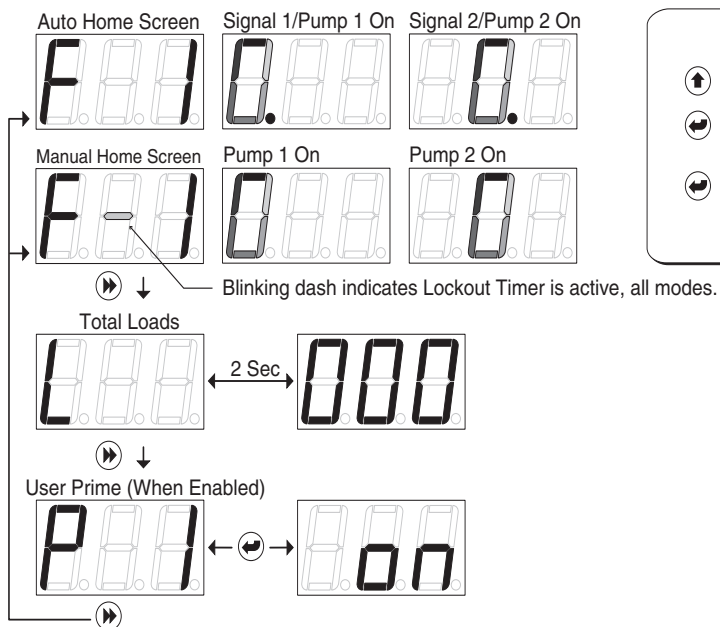
When Formula Selection displays, press and hold ENTER for 2 seconds. To input password, follow the instructions in “Input Installer Password” on page 1-2.

### Start Formula

From a Home Screen, press and release ENTER within 2 seconds to trigger manual dispensing.

<b>Note</b>	To terminate wash formula before end of lockout period, press and hold ENTER for longer than 2 seconds, release, and wait 10 seconds for screen to revert to Home Screen.
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## User Menu Screens



### User Functions

- ⬆ Selects Formula (All Modes)
- ⬅ < 2 seconds Starts Formula (Push Button Mode only)
- ⬆ > 2 seconds Ends Formula, Starts Password Input (All Modes)



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