1.0 INSTALLATION

NOTE: Installation to be performed only by experienced installers in accordance with all applicable electrical and plumbing codes.

1.1 Mechanical

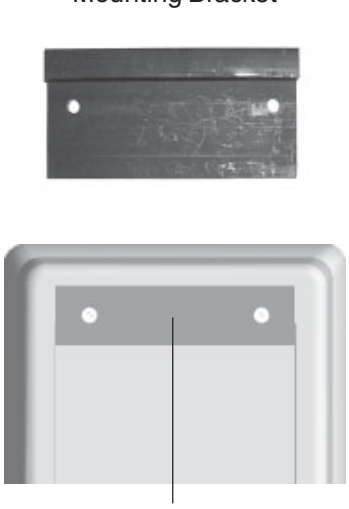
NOTE: Determine suitable mounting location that provides washing machine operator access to the dispenser front panel within close proximity to the washer and product containers.

1.1.a Mount unit in suitable location with mounting bracket and hardware provided.

1.1.b Cut to appropriate length and connect tubing/hose (not provided) from discharge side (right side) of pumps to the washing machine liquid supply inlet port.

1.1.c Cut to appropriate length and connect tubing/hose (not provided) from intake side (left side) of pumps to the product containers.

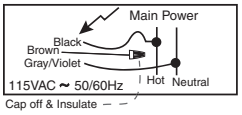
Figure 1.1
Unit Mounting



1.2 Electrical

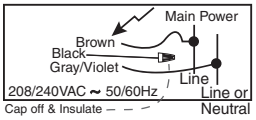
NOTES: The Sprite unit is double insulated, no earth ground connection is provided or required.

All power and signal wiring is done via a single cable that is to be routed to the power/signal wiring location in the washing machine via approved electrical conduit.



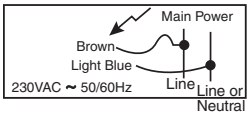
115VAC

Connect the gray with violet stripe wire to the neutral source. Connect the black wire to the 115 line. Cap off and insulate the brown wire (Wire nut provided).



208/240VAC

Connect the gray with violet stripe wire to one side of the voltage source . Connect the brown wire to the other line of the voltage source. Cap off and insulate the black wire (Wire nut provided).



230VAC

Connect the light blue wire to one side of the voltage source (Neutral if available). Connect the brown wire to the other side of the voltage source.

Signal Wiring (all versions)

1.2.3.a Input signal wire pairs (violet and white/violet = signal 1 and yellow and white/yellow = signal 2) are optically isolated signal inputs capable of accepting signal voltages ranging from 24 - 240VAC (or 24VDC). Signal wiring only applies to Automatic and Sequence Modes of operation. Signal inputs are ignored by the system in Push-button Mode.

Automatic Mode

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

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).

2.0 PROGRAMMING

Refer to menu screen illustrations and Guide To Icons for information on moving through the programming menu loops.

2.1 Input Installer Password

NOTE: You have 10 seconds to accomplish the following procedure.

Press and hold the Enter key for 2 seconds to access the Password input screen. The password factory setting is 123. Press the Scroll key to change the blinking digit to the desired value. Press the Next key to move the blinking digit. Press the Enter key when the desired number is present in all digits to enter Program Mode. An incorrect password entry returns you to the home screen.

2.2 Prime Pump "P-1"

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

2.3 Clear Load Counter "CLr"

Display toggles every two seconds between CLr and load count (all formulas). Press the Enter key to reset the Load Counter.

2.4 Operating Parameters "oP"

Display toggles every two seconds between oP and the current selection. Press the Enter key to select Au (Automatic), Pb (Push Button), or oc (Occurrence) parameter that defines desired mode of dispenser operation.

NOTE: The three operating modes are described in more detail under User Mode.

2.5 Lockout Period "LP"

Press the Enter key to display/edit Lockout Period value in minutes. Input method is the same as Password input. 000 = Lockout off.

NOTE: In Sequence Mode the Lockout Period must be programmed longer than total time of all programmed pump run times and delay times, and should approximately match the washer cycle time for a complete load

2.6 Formula Program "F-1"

Press the Scroll key to select the formula number (1 - 4) you wish to program. Press the Enter Key to move to the Program Formulas menu loop for the selected formula number.

2.6.1 Pump Amount "P1A"

The display will toggle every two seconds between stored run time value (in seconds) for the selected pump number and Pxx. Press the Scroll key to select the desired pump number. To set pump run time, press the Enter key to start the pump (display will increment seconds and pump will run). When desired time/volume is reached, press the Enter key again to stop the pump and set the value. Repeat for all desired pumps within the current formula selection.

2.6.2 Delay Time "D1A"

Press the Scroll key to select pump number you wish to program a delay time for. Press the Enter key. Input delay time in minutes in the same manor as Password input.

2.6.3 Assign Pump "A1A"

(Only active in Sequence Mode.) Assign pump numbers to signal sequence occurrences. At the A1A screen press the Scroll key to select pump number. Press the Enter key to access occurrence input screen (oc). Press the Scroll key to assign the signal occurrence for the previously selected pump number. Press the Enter key to return to the formula programming sub-menu loop.

2.6.4 Finish Program "Fin"

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

2.7 Filter Duration "Fd"

Press the Enter key to view/set Signal Filter Duration (same input method as Password input) in seconds (0-19, default 3).

NOTE: In Sequence Mode set the Filter Duration time to long enough to filter out excess fill valve signals that may occur as the washer level control calls for more water, etc. Typically leave at default setting for Automatic mode.

2.8 User Prime "uPr"

Every 2 seconds the screen alternates between UPr and current User Prime setting (on or off). Press the Enter Key to change this setting.

2.9 Password Edit "Pin"

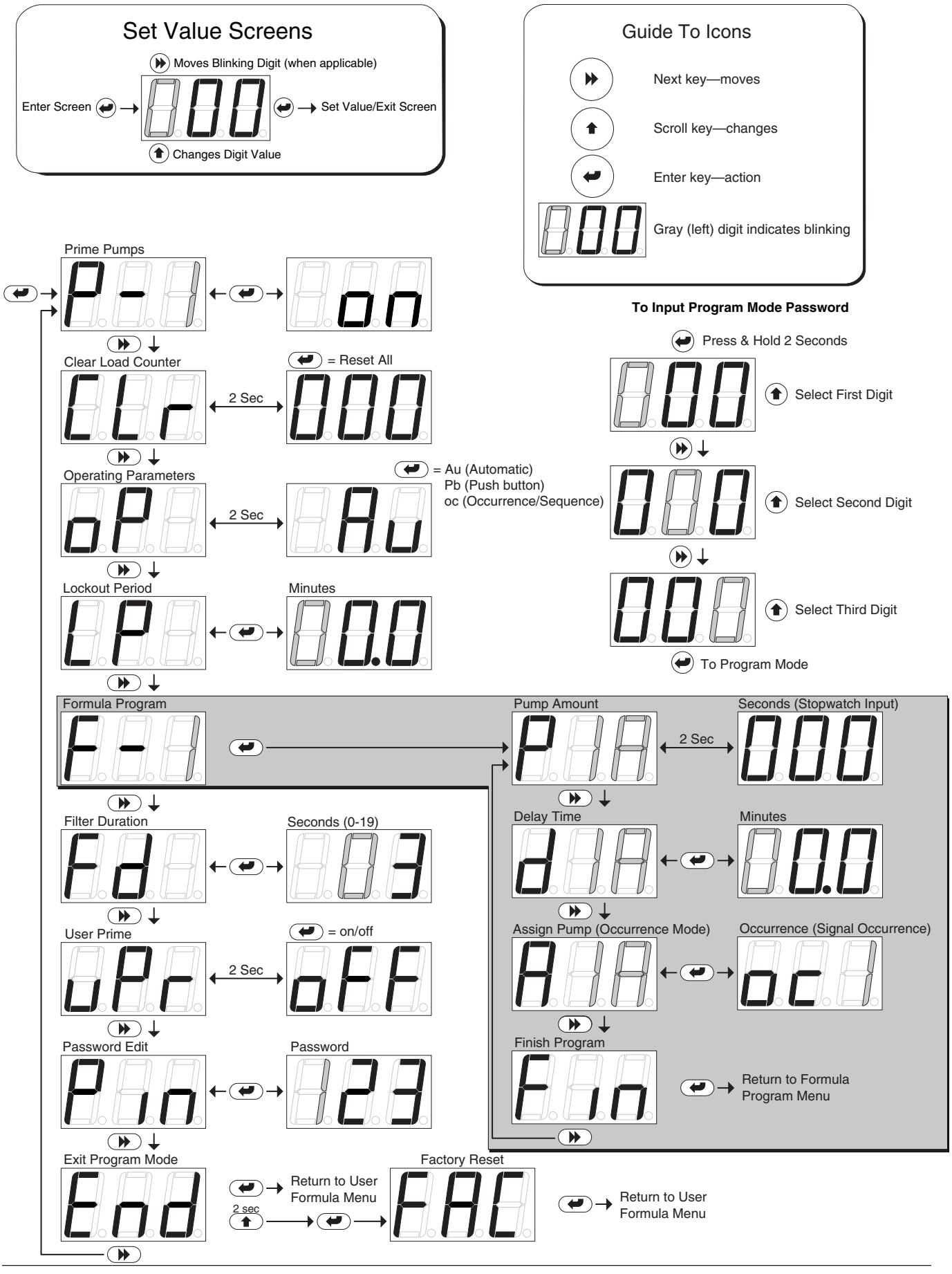
Any three-digit number may be input. Press the Scroll Key to change the blinking digit to the desired value. Press the Next Key to move the blinking digit. Repeat for all digits and press the Enter Key when the desired password is present.

NOTE: Be sure to make note of any password changes! Access to Program Mode is not available if the password becomes lost!

2.10 Exit Program Mode "End"

Press the Enter key to exit Program Mode and return to User Mode.

NOTE: To clear all values and restore factory settings in the dispenser, press and hold the Scroll key for two seconds, and then press the Enter key (while still pressing the Scroll key). The display will go to "FAC" to indicate that you have restored factory settings and cleared the dispenser's memory (including counter reset to zero). Press the Enter key again to return to User Mode.


Set Value Screens
Moves Blinking Digit (when applicable)
Enter Screen
Set Value/Exit Screen
Changes Digit Value
Guide To Icons
Next key—moves
Scroll key—changes
Enter key—action
Gray (left) digit indicates blinking
Prime Pumps
P-1
on
Clear Load Counter
= Reset All
CLr
2 Sec
000
Operating Parameters
= Au (Automatic)
Pb (Push button)
oc (Occurrence/Sequence)
oP
2 Sec
Au
Lockout Period
Minutes
LP
00.0
To Input Program Mode Password
Press & Hold 2 Seconds
Select First Digit
Select Second Digit
Select Third Digit
To Program Mode
Formula Program
F-1
Pump Amount
PIA
2 Sec
Seconds (Stopwatch Input)
Filter Duration
Fd
Seconds (0-19)
03
Delay Time
dIA
Minutes
User Prime
uPr
2 Sec
= on/off
oFF
Assign Pump (Occurrence Mode)
AIA
Occurrence (Signal Occurrence)
oc1
Password Edit
PIn
Password
123
Finish Program
FIn
Return to Formula Program Menu
Exit Program Mode
End
Return to User Formula Menu
2 sec
Factory Reset
FAC
Return to User Formula Menu

3.0 USER MODE

The Sprite TL dispenser offers three modes of operation:

Automatic Mode runs each pump program (program = delay time + run time) one time upon qualified input to the respective signal input. The Lockout Timer begins at start of first pump program start (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. Display indicates signal status, pumps running, and lockout status.

Sequence Mode is an alternate automatic logic where signals from input numbers 1, 2 and 3 act as a single logic input signal. Occurrences of the signals are counted (simultaneous input signals count as one signal occurrence) to determine when each pump runs based on pump-assignments in the ("A1A") assignment screen in the formula programming menu. Pump 1 has two programmable amounts, A and B, which are treated in Sequence Mode as separate pump programs. Display indicates signal status, pumps running, and lockout status.

Push Button Mode relies on a user push button press to start the wash formula program. The user selects the formula number and then starts the wash formula program by pressing and releasing the Enter key within 2 seconds. Pumps run as programmed via programmed delay and run times. During the lockout time all button presses to start the formula program will be ignored except Password input. Display indicates pumps running, and lockout status.

NOTE: **Password input and User Prime (if enabled) will reset the lockout timer and end the wash load.**

3.1 Formula Selection

From the Home Screen press the Scroll key to select programmed formulas (1-4).

3.2 View Load Counter

From the Home Screen press the Next key once to display "L". Load counter (all formulas) will toggle between "L" and load count since last clear.

3.3 Prime Pumps (when enabled)

From the Home Screen press the Next key twice to display "P 1". Press the Scroll key to select pump number to prime. Press the Enter key to turn selected pump on or off.

NOTE: **Prime Pumps only available when unit is not in a lockout timer period.**

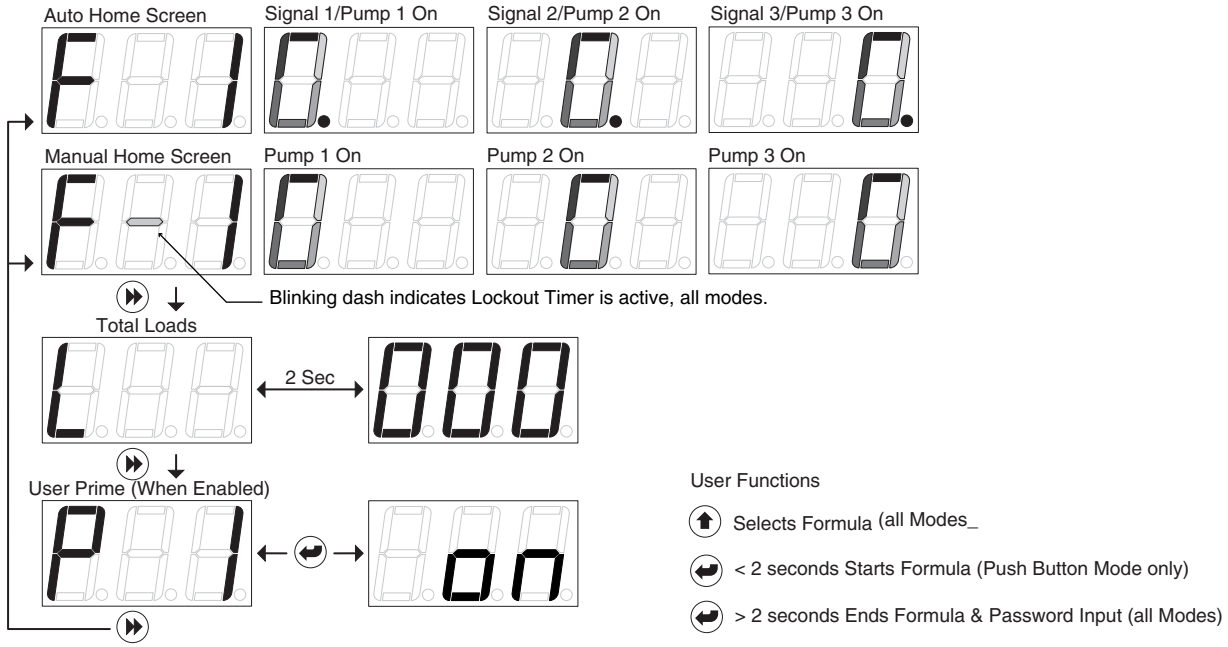
3.4 Password Access to Program Mode

From the Formula Selection screen only, press and hold the Enter Key for 2 seconds to access the Password input screen. Press the Scroll Key to change the blinking digit to the desired value. Press the Next Key to move the blinking digit. Press the Enter Key when the desired number is present in all digits to enter Program Mode. The password factory setting is 123.

3.5 Start Formula

From the Home Screen press and release the Enter key within 2 seconds to trigger manual dispensing.

NOTE: To terminate wash formula before end of lockout period press and hold the Enter key longer than 2 seconds, release, and wait 10 seconds for screen to revert to idle screen.



4.0 MAINTENANCE & SPECIFICATIONS

Routine maintenance includes keeping the dispenser wiped clean with a damp cloth and periodic Pump Tube replacement. The following are commonly used spare parts:

Pump Tube, Detergent, EPDM (Includes Barb Fittings)	13-06399-367
Pump Front (Includes Captive Screw)	13-06398-00
Pump Spinner	13-06396-00
PC Board (includes Upper Cabinet Front) Non-Euro	13-06393-50
PC Board (includes Upper Cabinet Front) Euro	13-06393-51
Power Transformer	13-06394-00
Pump Motor Assembly (left)	13-06523-00
Pump Motor Assembly (right)	13-06524-00

4.1 Dimensions

Size: 6.0" (15.24 cm) wide X 8.875" (22.7 cm) high X 4.88" (12.38 cm) deep

Weight: 5.98 lbs. (2.71 kilos)

Temperature: 120° F Maximum

4.2 Power Requirements

Total amperage draw during operation is:

90 to 130 VAC, 50/60 Hz. 0.5 amps (max).

200 to 249 VAC, 50/60 Hz. 0.3 amps (max).

4.3 General Specifications

Pump Flow Rate 5.25 oz/minute (156 mls/minute)

NOTE: All specifications subject to change without notice.