

Workbook

VSP Programming OneTouch





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IMPORTANT SAFETY INSTRUCTIONS

The information contained in this technical guide is intended for Zodiac trained service personnel only. Electrical installation and repairs should only be performed by a certified electrician or Zodiac trained professional, and must comply with all national electric codes (NEC, Canadian, etc.), state and local law, ordinances, codes and regulations.

If you have not received training, **do not attempt any of the electrical repairs presented in this document.** Contact Zodiac Pool Care, Inc. at 1-800-822-7933 for assistance.

Read and follow all instructions carefully.

When servicing equipment, basic safety precautions should always be followed including those listed below.

MarkFailure to heed the following warnings could result in property
damage, permanent injury or death.

TO REDUCE THE RISK OF ELECTRICAL SHOCK:

- Disconnect main power to pool equipment area prior to any service or repairs.
- Keep all electrical equipment at least 10 feet (3 m) from inside wall of pool or spa.
- Connect equipment only to a receptacle (cord models) or circuit (hardwired) protected by a ground fault circuit interrupter (GFCI).
- Use only copper conductors and supply wires suitable for the specific device.
- Replace damaged power cord(s) immediately and use only identical replacement parts.
- Do not bury power cord(s). Position cord(s) to minimize abuse from lawn mowers, hedge trimmers and other equipment.
- Do not install or service equipment if precipitation is present or imminent.

TO REDUCE EQUIPMENT WATER PRESSURE HAZARD:

- Always turn pump off to release pressure prior to removing or installing in-line equipment.
- To avoid equipment damage, do not exceed water pressure (psi) specifications for the device.

To reduce the risk of injury, do not permit children to operate, handle or play on equipment.

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OneTouch Setup and Programming

This section will cover VSP Settings:

- Pump Model
- Pump Application
- Minimum and Maximum rpm or flow
- Speed Settings, Labeling of Speeds and Assigning of Speeds
- Priming (speed and duration)
- Restoring Speed Defaults

OneTouch Setup

JANDY AquaLinkRS	
08/7/07 TUES 9:02 AM	
FILTER PUMP OFF AIR 88 °F	
EQUIPMENT ON/OFF ONETOUCH ON/OFF	
MENU / HELP	

From the Main Screen highlight MENU/HELP, then press Select.

VSP SETTINGS
PUMP MODEL PUMP APPLICATION MINI-MAX SETTINGS SPEED/LABELS PRIME RESTORE DEFAULTS

Pump MODEL will be highlighted, press Select.

MENU	
HELP	
PROGRAM	>
SET TEMP	>
SET TIME	>
DISPLAY LIGHT	>
LOCKOUTS	>
PASSWORD	>
PROGRAM GROUP	>
SYSTEM SETUP	>

Scroll to SYSTEM SETUP and press Select.

PUMP MODEL	
PUMP 1	
PUMP 2	
PUMP 3	
PUMP 4	
Highlight an	
SELECT	

Up to 4 variable speed or variable flow pumps maybe operated by the OneTouch. Highlight the pump number to be set and press Select.



STSTEMSETUP	
VAR SPEED PUMP	>
ONETOUCH	>
LABEL AUX	>
FREEZE PROTECT	>
AIR TEMP	>
SEASONAL ADJ	>
DEGREES C/F	>
DAYLIGHT SAVIN	>
↑↑ MORE ↓	

Scroll Up to VAR SPEED PUMP and press Select.



Highlight the appropriate pump type and press Select. An X will appear to the right of the pump. Press the Back button to return to VSP Settings screen. Select ePump if the pump is a Jandy

variable speed pump.

Select Intelliflo VF if the pump is a Pentair variable flow pump.

Select Intelliflo VS if the pump is a Pentair variable speed pump or a SVRS pump. Note 1: Starting with Revision P a OneTouch system can operate any combination of variable speed and variable

flow pumps. Note 2: Do not choose VSP AC, this

circuit does not operate at this time.

SETUP





Note: The minimum and maximum settings are global, this means that once set, the pump can not be run lower than the minimum or higher than the maximum unless these settings are changed. In general these settings are based upon equipment (minimum speed/flow to operate a heater, chlorinator, cleaner etc.,) and maximum to not exceed the recommended velocity through pipe.

OneTouch Setup



Press the Up or Down buttons to change the Speed, press Select when done. Press the Back button to return to VSP Settings screen. Note: Minimum and maximum speeds can be changed in 5 rpm increments. Low minimum limit is set to 600 rpm and the high maximum limit is set to 3450 rpm. To increase speed of change, hold down the Up or Down button for 5 seconds.

SPEED/LASBELS PUMP 1
SET SPEEDS LABEL SPEEDS
ASSIGN SPEEDS
Highlight an
SELECT

Highlight SET SPEEDS and press Select.



Highlight SPEED/LABELS and press Select. Press the Back button to return to VSP Settings screen.



Highlight the pump number and press Select.

SET SPEED (RPM))
POOL SPA SPEED 3 SPEED 4 POOL HEAT SPA HEAT SOLAR HEAT	1750 2750 2750 2750 2250 2250 2750
^ MORE w	

Because Filtration was chosen earlier as the application, default speeds will be assigned to various circuits. For example, pool filtration default speed is 1750 rpm and spa filtration default speed is 2750 rpm.

To change speed for any circuit simply highlight the circuit, press Select then use the Up or Down button to change speed.



When this screen appears, the first digit in the number will be highlighted. Use the Up or Down buttons to change this digit then press Select. Do the same for the second, third and fourth digits. When the last digit is selected the screen will revert to the previous screen.

All four digits must be highlighted and selected for the speed change to be recorded.

In this example SPEED 3 has been changed to 2200 rpm.

SETUP

OneTouch Setup



Highlight LABEL SPEEDS and press Select.

LABEL SPEEDS	
POOL	>
	>
	>
	~
	$\langle \rangle$
SOLAR HEAT	$\langle \rangle$
SPEED 8	>

In this example SPEED 3 has been changed to FLOOR SYSTEM.

When labeling is done press the Back button to return to VSP Settings screen.

Note: Remember, at this screen the changes to the labels are changes to the *speed labels* not the auxiliary labels.

NOTES:

LABEL SPEE	DS
POOL	>
SPEED 3	>
SPEED 4	>
POOLHEAT	>
SPA HEAT	>
SOLAR HEAT	>
SPEED 8	>
1	

As was the case with SET SPEEDS, since Filtration was chosen earlier as the application, default labels will be assigned to various circuits. For example, pool filtration default label is POOL and spa filtration default label is SPA. To change labels for any circuit simply highlight the circuit and press Select.

Note: Names such as POOL, SPA, POOL HEAT, SPA HEAT and SOLAR HEAT cannot be changed.



Highlight ASSIGN SPEEDS and press Select.



Two choices will appear on the screen, GENERAL LABELS and CUSTOM LABEL. Highlight one, then use the Up and/or Down button to change label or type the custom name. Note: Remember, at this screen the changes to the labels are changes to the *speed labels* not the auxiliary labels.

ASSIGN SPE PUMP1	EDS
AUX1	>
AUX2	>
AUX3	>
AUX3	>
AUX4	>
AUX5	>
AUX6	>
AUX7	>

Highlight one of the auxiliaries, then press Select. Example: AUX3

8

ON

OFF

OFF

OFF

OFF

OFF

OFF

ON

OFF

OFF

OneTouch Setup

ASSIGN SPEEDS AUX3
POOL SPA FLOOR SYSTEM X SPEED4 POOL HEAT SPA HEAT SOLAR HEAT IN FLOOR

Highlight the auxiliary to which the speed will be assigned, then press Select. Example: FLOOR SYSTEM Review Speed/Labels:

At this point Speed 3 has been changed as follows:

• Operating speed was changed from 2750 to 2200 rpm.

^^ MOREvv

• Relabeled FLOOR SYSTEM.

• Assigned to be activated from the AUX3 circuit. At this point AUX3 is on which also turns on the filter pump circuit. After priming the pump will run at the speed assigned to AUX3 (2200 rpm/FLOOR SYSTEM).

FILTER PUMP

VSP1 SPD PGM POOL HEAT

SPA HEAT

SOLAR HEAT

SPA

AUX1

IAUX2

AUX3

AUX4

AUX5

Once again remember the speed label was changed to FLOOR SYSTEM not the auxiliary label.

OneTouch Programming

This section will cover two ways to change speeds/flow automatically.

- Program
- Program Speeds (VSP SPD PGM)

	JANDY AquaLinkRS	
	08/7/07 TUES 9:02 AM	
	FILTER PUMP OFF AIR 88 °F	
	EQUIPMENT ON/OFF ONETOUCH ON/OFF	
	MENU / HELP	
•	ort by bigblighting	

Start by highlighting MENU / HELP and pressing Select.

MENU	
HELP	>
PROGRAM	>
SET TEMP	>
SETTIME	>
DISPLAY LIGHT	>
LOCKOUTS	>
PASSWORD	>
PROGRAM GROUP	>
SYSTEM SETUP	>

Scroll to PROGRAM and press Select.



First way to turn on the pump automatically. Highlight the circuit and press Select. For example: To program the filter pump to turn on automatically highlight FILTER PUMP then press Select.

Very Important Note: When changing speeds through programming, always set the speed to be switched to higher than the current programmed speed.

Note: The items listed on this screen are the names of some of the circuits that maybe set to turn on and off automatically. To see the other circuits, press the Up or Down Button.

PROGRAMMING

OneTouch Programming



Add Program will be highlighted, press Select.

When this screen appears the default ON and OFF times will show as 1:00 PM and the ON hour will be highlighted.

To change the ON hour press the Up or Down button. Note the AM/PM indicator as the hour is changed, then press Select. Next change the on minutes and press Select. Set the OFF time in the same manner. Finally chose whether the pump should run everyday (All Days), on individual days, on weekdays or just on weekends, then press Select. Example: The Filter Pump circuit is now programmed to turn on everyday at 8:00 AM and off at 5:00 PM. As shown here the Filter Pump circuit is now programmed to turn on everyday at 8:00 AM and off at 5:00 PM.

Follow the same procedure for setting other circuits to turn on and off automatically.



OneTouch Programming

_
PROGRAM
FILTER PUMP
SPA VSP1 SPD PGM
POOL HEAT SPA HEAT
SOLAR HEAT
AUX2
^^ MOREvv

Second way to turn on the pump automatically.

Highlight VSP1 SPD PGM and press Select. VSP SPD PGM allows program times to be set so the variable speed pump will change speeds within a programmed operational time without using additional circuits such as POOL HEAT, SPA, SPA HEAT, or auxiliaries.

Note: If more than one variable speed/flow pump is installed, there will be additional Program Speeds (VSP SPD PGM) listed on this screen. Highlight the appropriate pump and press Select. Additional variable speed pumps may be listed as follows:

VSP2 SPD PGM VSP3 SPD PGM

VSP4 SPD PGM

PROGRAM SPEEDS	
POOL	>
SPA	>
FLOOR SYSTEM	>
SPEED 4	>
POOLHEAT	>
SPA HEAT	>
SOLAR HEAT	>
SPEED 8	>

At this screen the pump maybe programmed to change to any of the 8 speeds within an operating time without using up an equipment circuit to do so. For example: If the pool filtration pump is set to run at 1750 rpm from 8:00 AM to 5:00 PM and the FLOOR SYSTEM is set to run from 11:00 AM to 2:00 PM at 2200 rpm, the following will occur. The filter pump will turn on at 8:00 AM and go to the priming speed and run at that speed for the priming duration. The pump will then switch to the set speed of 1750 rpm until 11:00 AM. At 11:00 AM the pump will ramp up to 2200 rpm and run at that speed until 2:00 PM. From 2:00 PM until it shuts off at 5:00 PM the pump will again operate at 1750 rpm.



Very Important Note: The same requirement as Program applies when setting VSP SPD PGM, that is, ALWAYS SET THE SWITCHING SPEED HIGHER THAN THE PREVIOUS SPEED.



Review: Use PROGRAM to set the equipment to operate automatically using circuits. Set PROGRAM SPEEDS (VSP SPD PGM) to change speed for equipment within its automatic operating time. Always set the switch to speed higher than the switch from speed.

Note: If more than one variable speed/flow pump is installed there will be additional VSP SPD PGM listed on this screen. For example if there are 4 ePump installed they will be listed as follows:

VSP2 SPD PGM VSP3 SPD PGM VSP4 SPD PGM

OPERATION

OneTouch Manual Operation This section will cover how to manual turn on and change speeds/flow.

JANDY AquaLinkRS	
08/7/07 TUES 9:02 AM	
FILTER PUMP OFF AIR 88 °F	
EQUIPMENT ON/OFF ONETOUCH ON/OFF MENU / HELP	

There are two ways to change speeds Manually, both are selected through the EQUIPMENT ON/OFF screen. To change speeds manually highlight EQUIPMENT ON/OFF from the main screen and press Select.

FILTER PUMP	ON
SPA	OFF
VSP1 SPD ADJ	
POOLHEAT	OFF
SPA HEAT	OFF
SOLAR HEAT	OFF
AUX1	OFF
AUX2	OFF
AUX3	OFF
AUX4	OFF
AUX5	OFF
^ MORE vv	

Second way to change speeds manually. Highlight the circuit for the pump application and press select to turn on this circuit. Example: Pump application is filtration therefore the FILTER PUMP circuit must be turned on first.

NOTES:

FILTER PUMP	OFF
SPA	OFF
VSP1 SPD ADJ	
POOLHEAT	OFF
SPA HEAT	OFF
SOLAR HEAT	OFF
AUX1	OFF
AUX2	OFF
AUX3	OFF
AUX4	OFF
AUX5	OFF
$^{\wedge}$ More $_{\rm vv}$	

First way to change speeds manually.

If a speed has been assigned to a circuit, highlight the circuit and press Select. After priming the pump will go to the speed set to that circuit.

Example: AUX1 selected. After priming the pump will run at the speed set to AUX1.

Note 1: If the pump application is filtration, and the selected speed is less than the filtration speed, the pump will not switch to the lower speed.

Example: Filtration speed 1750 rpm, AUX 1 Speed 800 rpm. AUX 1 selected, after priming the pump will run at 1750 rpm.

Note 2: If the pump application is an auxiliary pump, the pump will run at the last speed selected. If the last speed selected is turned off, the pump will revert to higher of the remaining speeds.

FILTER PUMP	ON
SPA	OFF
VSP1 SPD ADJ	
POOLHEAT	OFF
SPA HEAT	OFF
SOLAR HEAT	OFF
AUX1	OFF
AUX2	OFF
AUX3	OFF
AUX4	OFF
AUX5	OFF
^ More $_{\rm vv}$	

Scroll to VSP1 SPD ADJ and press Select. Note there maybe more than one VSP SPD ADJ, so chose the appropriate pump.

OneTouch Manual Operation This section will cover how to manual turn on and change speeds/flow.

SET SPEED (RPM))
POOL SPA FLOOR SYSTEM SPEED 4 POOL HEAT SPA HEAT SOLAR HEAT	1750 2750 2200 2750 2250 2250 2750
$^{\wedge}$ More $_{\nu\nu}$	

Highlight a speed, then press Select.



When this screen appears, the first digit in the number will be highlighted. Use the Up or Down buttons to change this digit then press Select. Do the same for the second, third and fourth digits. When the last digit is selected the screen will revert to the previous screen and the pump will run at the speed selected. All four digits must be highlighted and selected for the speed change to be recorded.

In this example SPEED4 has been changed to from 2750 to 1200 rpm. Example: Pump application Filtration, POOL speed set to 1750, SPEED4 set to 1200. In this example the pump will run at 1200 rpm after priming has completed. This is a temporary speed/flow change. When the pump is turned off, then on, the speed will revert to the speed set in VSP SETTINGS screen under SPEED/LABELS.

OneTouch Service or Time Out Mode



OneTouch - Troubleshooting Confirm Compatibility



HELP will be highlighted,

press Select.

From the main screen highlight MENU / HELP then press Select.

OneTouch - Troubleshooting



MODEL	E0260801
TYPE R	S-8 Combo
FIRMWARI	E R
SEN	ISORS
WATER	OK
AIR	OK
SOLAR	OK
NE	ХТ





Example: Here the ePump is addressed as ePump 2. If this is not the correct address of the ePump the dip switches, located in the junction box at the rear of the ePump, will need to be changed. If the address is correct, press Select to continue.

Scroll to DIAGNOSTICS

and press Select.

AIR OK SOLAR OK NEXT Look for the FIRMWARE number in Diagnostics. The Firmware must be revision O or newer. Example: The revision of

this system is Rev R.

SENSORS

E0260801

R

OK

RS-8 Combo

MODEL

FIRMWARE

WATER

TYPE

REMOTES ePump 1 CHEMLINK 1 ONETOUCH 1 SERIAL ADAPTER 1 CONTINUE

All items connected through the RS485 line will appear on this screen. If the ePump is listed check the number to its right making certain it coincides with the address of the pump.



At this screen any communication issues with the connection to the RS485 line will be shown. This screen indicates any of the following: • The RS485 line (4 conductor wire) is damaged or not connected properly.

- Power is off to the motor when it should be on.
- Variable Speed Pump is damaged.