

Signature Server Digital Control Service Kit Installation Instructions

Service Kits #2930101 and #2930102 are now supplied in place of original equipment circuit boards. This bulletin details the procedure for removing the old circuit boards and installing the new circuit boards supplied in the Service Kit.

REMOVING OLD RELAY BOARD AND OLD CONTROL PANEL



WARNING

Electrical Shock Hazard.

Keep water and other liquids from entering the inside of the unit. Liquid inside the unit could cause an electrical shock. Do not damaged power cord.

Disconnect all power to the Signature Server Hot Well Station before continuing with this installation.

1. Unplug Hot Well Station power cord from the electrical outlet.
2. Remove the two screws holding the old Control Panel in place. Retain these screws.
3. Mark all the wires that are connected to the Relay Board terminals (A) These are located at the top of the circuit board. See Figure 1.

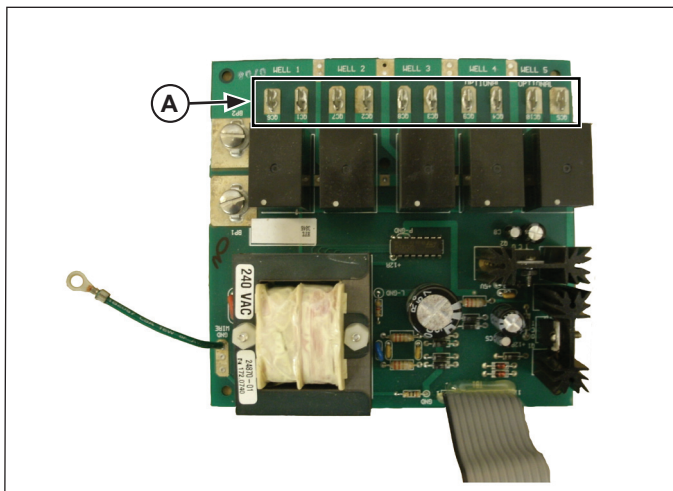


Figure 1. Old Relay Board

4. Disconnect wires for each well from the Relay Board. Use pliers and remove each push-on connector directly away from the circuit board. **DO NOT PULL THE WIRES:** (wires may pull out of push-on connectors). Keep well wires together and identified in pairs for each well.
5. Disconnect the two power supply wires from the two screws in the upper left corner of the circuit board. Cut off ring terminals and strip approximately 3/8" of insulation from the ends of the wires.
6. Remove and discard the old Relay Board. The old Relay Board is secured with (5) plastic standoffs. Gently pinch the end of each standoff with a pliers and lift the circuit board over the end of the standoff.
7. Remove center standoff from control box. Pull firmly with pliers, or cut it off. This center standoff is not needed for the new Relay Board.

INSTALLING NEW RELAY BOARD AND NEW CONTROL PANEL

1. Install new Relay Board on (4) remaining standoffs. Orient the board as shown in Figure 2. It will snap onto each standoff. Replacement standoffs are supplied in case any standoffs were broken or damaged.

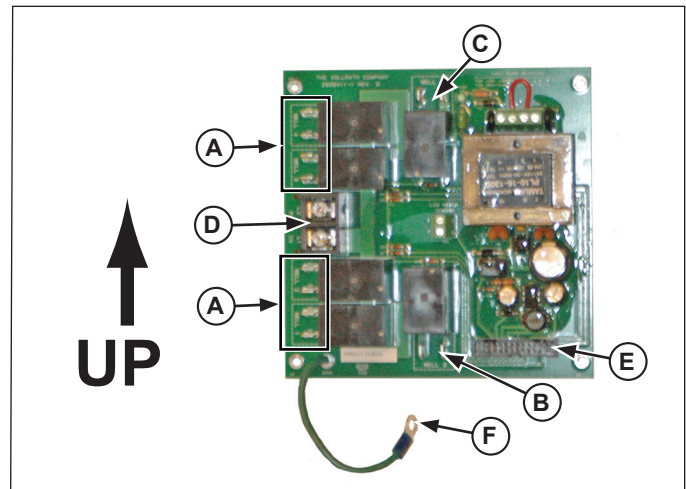


Figure 2. New Relay Board

2. Install well wires per Figure 2. Terminals for Wells # 1-4 (A) are on the left edge of the board, Well # 5 (B) at the bottom of the board, and Well #6 (C) at the top of the board.
3. Install power wires into the terminal block (D) located at the center of the left edge of the board. Each stripped wire end must go under a pressure plate on the terminal block. Tighten screws securely.
4. Plug the Ribbon Cable into Relay Board port (E). Either end of the cable may be used, but the connector is keyed, and will only fit into the socket in one direction.
5. Connect the Ground Cable (F) in the location where the previous Ground Cable was attached.

6. Locate the slide switches (A) at the center of the Logic Board, located on back side of Control Panel. Using a ball point pen, slide the switch for each well in the Serving Station to the ON (up) position. Slide all unused switches to the OFF (down) position. See Figure 3.

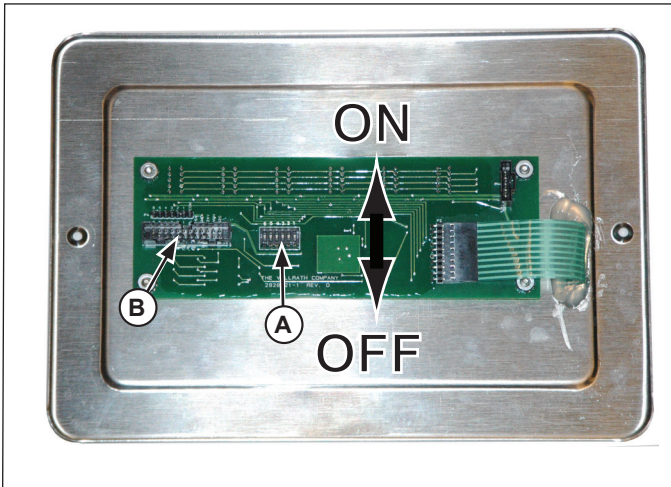


Figure 3. Logic Board

Note: These well numbers must match the well numbers being used on the Relay Board.

7. Plug the other end of Ribbon Cable into socket on Logic Board port (B). The connector is keyed and will only fit into the socket in one direction.
8. Check all connections to make sure they match Figure 2 and Figure 3.
9. Install Control Panel using (2) screws removed earlier.

TESTING AND CHECKING OPERATION

1. A continuity check is recommended at the power plug to make sure there is no short circuit.
 2. Plug in the power cord into the outlet to reconnect power.
- See Operating Instructions, below.

NOTE: Low Water Indicator will not function on older Signature Server Hot Stations that do not have a low water sensor (sensor cannot be retrofitted).

Turn the unit ON/OFF:

1. Press and hold the ON/OFF button for 2 seconds to turn the entire unit ON or OFF. The wells will automatically be set to the previous well settings. If the lights flash "8" check the Ribbon Cable to make sure it is seated correctly.
2. Set Individual Wells:
3. Push and hold arrows for each well until desired heat setting is displayed in the well display window.

The heat settings range between 0 and 9: 0 = OFF----- 9 = HIGH

Low Water Indicator:

The low water light will not illuminate when the unit is initially turned on. The low water light will only indicate when water is needed during operation. The low water sensor is located in the #1 well (well furthest to the left when facing the controller) and therefore will only operate if the first well is used.

NOTE: Located in the bottom right corner of each well display, an illuminated dot will appear when the element has cycled on and is heating.



www.vollrathco.com

The Vollrath Company, L.L.C.
1236 North 18th Street
Sheboygan, WI 53081-3201
U.S.A.

Main Tel: 800.628.0830
Fax: 800.752.5620

Technical Services: 800.628.0832
Service Fax: 920.459.5462

Canada Service: 800.695.8560

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