

## IF SENSOR IS ACTIVATED AT ONE FIXTURE BUT DIFFERENT FIXTURE RESPONDS

Inputs and outputs are not properly matched. Refer to the controller's lid for specific wiring. Sensor (input) should be directly across from the corresponding solenoid (output).

## GENERIC SOLENOID TROUBLESHOOTING STEPS

Follow the steps below for any solenoid before following the specific steps for each solenoid model.

- 1) Turn off water supply to the valve associated with the solenoid in question.
- 2) Remove solenoid from valve.
- 3) Check solenoid for operation: When the solenoid is energized, you should be able to hear a "click". This is the sound of the plunger contacting the backing of the plunger guide tube with the magnet field intensifies. If you cannot hear the "click," replace solenoid.
- 4) Disconnect solenoid from controller.

## SLD-0914 SERIES 24 VAC SOLENOID/BLEED PLUG ASSEMBLY

- 1) Remove the bleed plug.
- 2) Carefully remove the plunger retaining ring.
- 3) Inside this assembly is the plunger with spring and o-ring that seals bleed plug to the plunger guide tube. Make sure that the center hole of the bleed plug is clear of debris. Also check the ridge around center hole to make sure it is not nicked or worn. If nicked or worn and the valve the solenoid was removed from was leaking through, replace the bleed plug.
- 4) Remove the plunger from the plunger guide tube. Make sure there is no debris in the guide tube.
- 5) Inspect the plunger to make sure it is free from rust or flake that may clog the bleed plug. Inspect the spring and the insert in the plunger. This insert should be perfectly flat. If not, it won't seal against the bleed plug and the water will leak through.
- 6) Reassemble solenoid.
- 7) Reconnect solenoid to valve and controller. Turn water supply back on. Test solenoid. If solenoid still does not operate correctly, contact support.

## SLD-6214 SERIES BATTERY SOLENOID/BLEED PLUG ASSEMBLY

- 1) Remove the bleed plug.
- 2) Inside this assembly is the plunger with spring and o-ring that seals bleed plug to the plunger guide tube. Make sure that the center hole of the bleed plug is clear of debris. Also check the ridge around center hole to make sure it is not nicked or worn. If nicked or worn and the valve the solenoid was removed from was leaking through, replace the bleed plug.

## SLD-6214 SERIES BATTERY SOLENOID/BLEED PLUG ASSEMBLY CONTINUED

- 3) Remove the plunger from the plunger guide tube. Make sure there is no debris in the guide tube.
- 4) Inspect the plunger to make sure it is free from rust or flake that may clog the bleed plug. Inspect the spring and the insert in the plunger. This insert should be perfectly flat. If not, it won't seal against the bleed plug and the water will leak through.
- 5) Reassemble solenoid.
- 6) Reconnect solenoid to valve and controller. Turn water supply back on. Test solenoid. If solenoid still does not operate correctly, contact support.

## SLD-0912 SERIES 24 VAC SOLENOID/BLEED PLUG ASSEMBLY

- 1) Remove the nut from the top of the solenoid.
- 2) Pull the bleed plug and plunger guide tube through the coil assembly. When this is removed, there are two pieces (coil with lead and bracket) left.
- 3) The bleed plug/plunger guide tube assembly needs to be disassembled. Hold the bleed plug with the plastic latch and use an Allen Wrench to remove the plunger guide tube from the bleed plug.
- 4) Remove the bleed plug. Inside this assembly is the plunger with spring and o-ring that seals bleed plug to the plunger guide tube. Make sure that the center hole of the bleed plug is clear of debris. Also check the ridge around center hole to make sure it is not nicked or worn. If nicked or worn and the valve the solenoid was removed from was leaking through, replace the bleed plug.
- 5) Remove the plunger from the plunger guide tube. Make sure there is no debris in the guide tube.
- 6) Inspect the plunger to make sure it is free from rust or flake that may clog the bleed plug. Inspect the spring and the insert in the plunger. This insert should be perfectly flat. If not, it won't seal against the bleed plug and the water will leak through.
- 7) Reassemble bleed plug, plunger, o-ring and plunger guide tube. Insert this assembly back through the bracket and coil with lead. Screw nut back on top to hold assembly together. **DO NOT OVER-TIGHTEN THE NUT DOWN.** It only needs to be snugged up. Over-tightening this nut can stop the solenoid from operating.
- 8) Reconnect solenoid to valve and controller. Turn water supply back on. Test solenoid. If solenoid still does not operate correctly, contact support.

## SLD-6213 SERIES BATTERY SOLENOID/BLEED PLUG ASSEMBLY

- 1) Remove the nut from the top of the solenoid.
- 2) Carefully pull the bleed plug and plunger guide tube through the coil assembly. When this is removed, there are loose pieces (coil with lead attached, bracket, magnet, plate and white plastic ring) that need to stay in place for when the solenoid is reassembled.
- 3) The bleed plug/plunger guide tube assembly needs to be disassembled. Hold the bleed plug with pliers and use a pair of needle nose pliers to loosen the spanner ring holding the bleed plug to the plunger guide tube assembly.

## SLD-6213 SERIES BATTERY SOLENOID/BLEED PLUG ASSEMBLY CONTINUED

- 4) Remove the bleed plug. Inside this assembly is the plunger with spring and o-ring that seals bleed plug to the plunger guide tube. Make sure that the center hole of the bleed plug is clear of debris. Also check the ridge around center hole to make sure it is not nicked or worn. If nicked or worn and the valve the solenoid was removed from was leaking through, replace the bleed plug.
- 5) Remove the plunger from the plunger guide tube. Make sure there is no debris in the guide tube.
- 6) Inspect the plunger to make sure it is free from rust or flake that may clog the bleed plug. Inspect the spring and the insert in the plunger. This insert should be perfectly flat. If not, it won't seal against the bleed plug and the water will leak through.
- 7) Reassemble bleed plug, plunger, o-ring, spanner ring and plunger guide tube. Insert assembly through the other parts (coil, bracket, magnet, plate and white plastic ring).
- 8) When you put the nut back on to hold the assembly together it is very important that you **DO NOT OVER-TIGHTEN THE NUT DOWN**. It only needs to be snugged up. Over-tightening this nut can stop the solenoid from operating.
- 9) Reconnect solenoid to valve and controller. Turn controller power off for 10 seconds and then turn power back on. Turn water supply back on. Test solenoid. If solenoid still does not operate correctly, contact support.