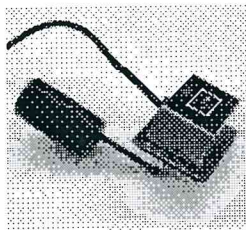


L-111-A

L-111-Ax

Switch Replacement



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The L-111-A(x) replacement switch and float assembly is built to the same exacting standards as the original product that came with your pump. It can be used on the following HARTELL pump models: L-4, SC-1A, older LTS & LTP models.

WARNING: RISK OF ELECTRICAL SHOCK. Disconnect the pump from the power supply before servicing. If your switch has an 'x' designation (L-111Ax), it is equipped with a safety switch. Disconnect the two yellow wires from the switch.

Tools Needed: Pliers
1/4" nut driver or wrench
5/16" nut driver or wrench

Replacing the L-111-A(x) main switch is a simple procedure.

Removing Old Switch/Float Assembly:

1. Remove the switch cover screw with the 1/4" nut driver. Remove and discard the aluminum switch cover and rubber grommet. (Figure 1) Note, older assemblies have cover screw located on the side of the switch.
2. Using the pliers, disconnect the wire terminals from the black switch. Use care not to damage the wire terminals. (Figure 2)
3. Grasp the Heyco strain relief and pull it from the switch/float assembly. (Figure 3)
3. Remove and save the five switch plate screws with the 5/16" nut driver.
4. Remove the switch and float assembly from the reservoir. A lift and twist motion is required.
5. Remove the old gasket material and clean the perimeter of the switch assembly opening to assure a good seal with the new, supplied gasket.

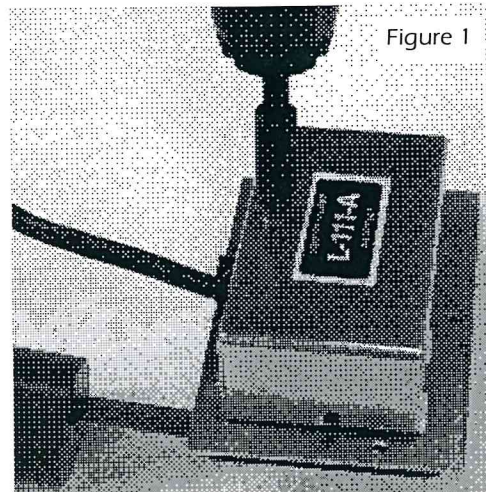


Figure 1

Installing New Switch/Float Assembly:

1. After removing the old switch/float assembly, be sure to clean the perimeter of the switch assembly opening.
2. Install the new switch and float assembly carefully. Be sure that you do not bend the float arm.
3. Install the five perimeter switch plate screws.
4. Remove and save the new switch cover screw, and switch cover.
5. Attach the insulated wire terminals to the uppermost (normally closed) switch terminals on the black switch. Use care not to bend the switch terminals. (Figure 2) Manually operate the switch by pressing down on the metal actuator that surrounds the switch lever. Be sure that it operates smoothly without obstruction.
6. Reinstall the Heyco strain relief onto the new switch/float assembly and secure the switch cover. (Figure 3 & 1)
7. If your unit is equipped with a safety switch, see the procedure below for reattaching the safety switch.

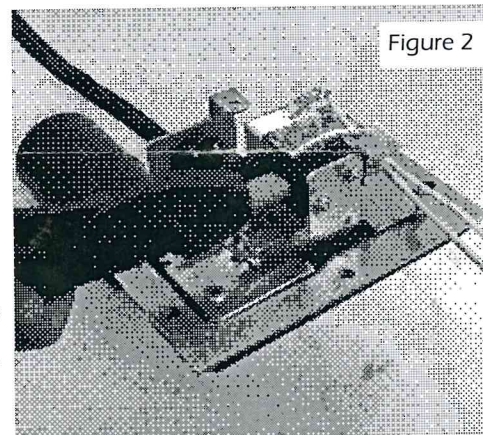


Figure 2

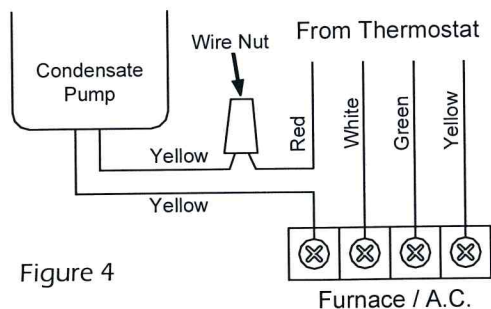


Figure 4

LOW VOLTAGE—AUXILIARY SAFETY SWITCH— Units designated with an 'x' in the model number (L-111Ax) have a built in safety switch. Connect the leads of auxiliary safety switch to the thermostat control circuit of the air conditioner/furnace. This will disrupt the thermostat demand in a high water condition. (Figure 4)

CAUTION—Thermostat demand disruption should not be utilized if cooling or heating requirements are a necessity. An alarm system should be used with the auxiliary switch instead. The switch is wired normally

closed. To wire for normally open operation open the switch cover and move the yellow wire from the bottom terminal to the middle terminal on the white switch.

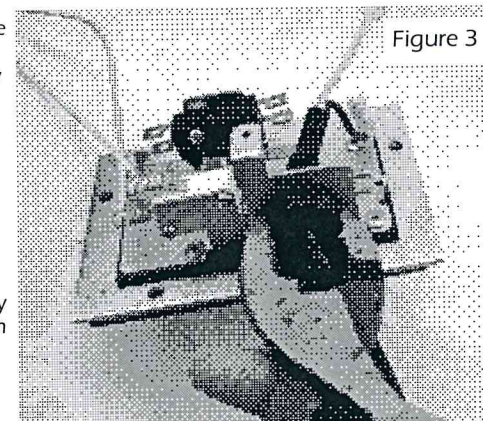


Figure 3

LIMITED WARRANTY

HARTELL L-111-A(x) float switches are guaranteed to be free from defects in workmanship or materials and to function satisfactorily, when properly installed, for a period of (12) months from date of installation, or (14) months from purchase. HARTELL will replace, without charge, any HARTELL product found to be defective upon examination at our factory if returned within the guarantee period, transportation charges prepaid. This guarantee does not apply if the product has been misapplied or mechanically damaged, HARTELL assumes no liability for resultant damages of any kind arising out of the use of its products.