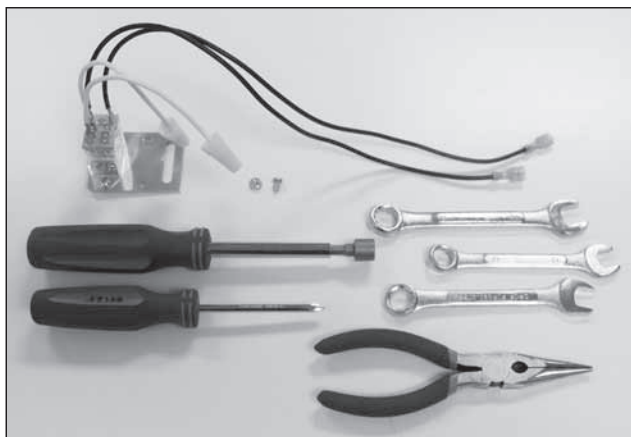


Installation Of Heat Pump Relay Kit 59081



TOOLS YOU NEED

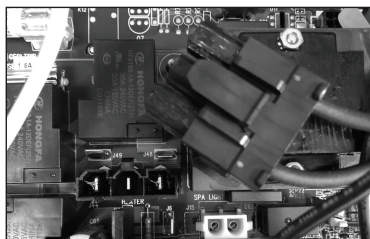
- Phillips screwdriver
- Needle nose plier
- Open end wrenches and nut driver

* BP2100 Series, BP6013 Series, and BP601 Series.

STEP 1

- Turn off power to the entire system *
- If desired to have only the Heat Pump turn on and never have the Electric heater turn on, Go to Step 2.
- If desired to have both the Heat Pump and the Electric Heater turn on simultaneously at all times, do not complete Step 2, and Skip to Step 3.

STEP 2



- Completely remove male side of the heater cable connector from the female connector mounted on the PCBA.
- OK to allow the male side of the heater cable to hang loose inside the system.
- Note: Completing Step 2 will allow only the Heat Pump to run and the Electric Heater will never turn on.

STEP 3



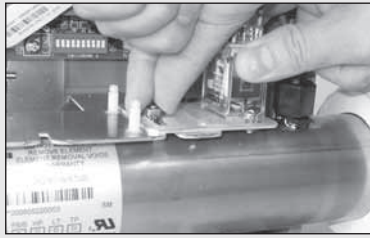
- If an expander board is present, you will need to remove the expander board by unscrewing the nuts and bolts to allow for mounting of the Heater Pump Relay Kit.

STEP 4



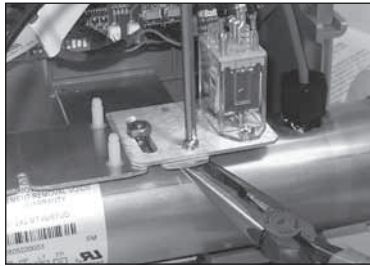
- Remove the nut from the top of the heater that attaches the heater to the metal mounting plate in the system.

STEP 5



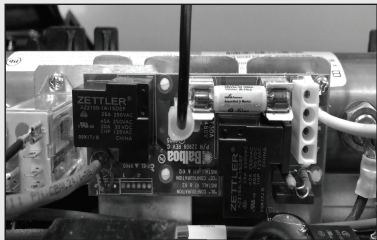
- Position the slot in the Heat Pump Relay Kit over the heater mounting stud and replace the nut - finger tight.

STEP 6



- Install the small screw and nut in the front hole of the relay kit after aligning it with the mating hole in the heater mounting plate. Use a needle nose plier to hold the nut in position under the plate near the heater tube, and tighten the screw from the top with the phillips screwdriver.
- Tighten the heater mounting nut.
- Replace any Expander Board that may have been installed in the system.

STEP 7



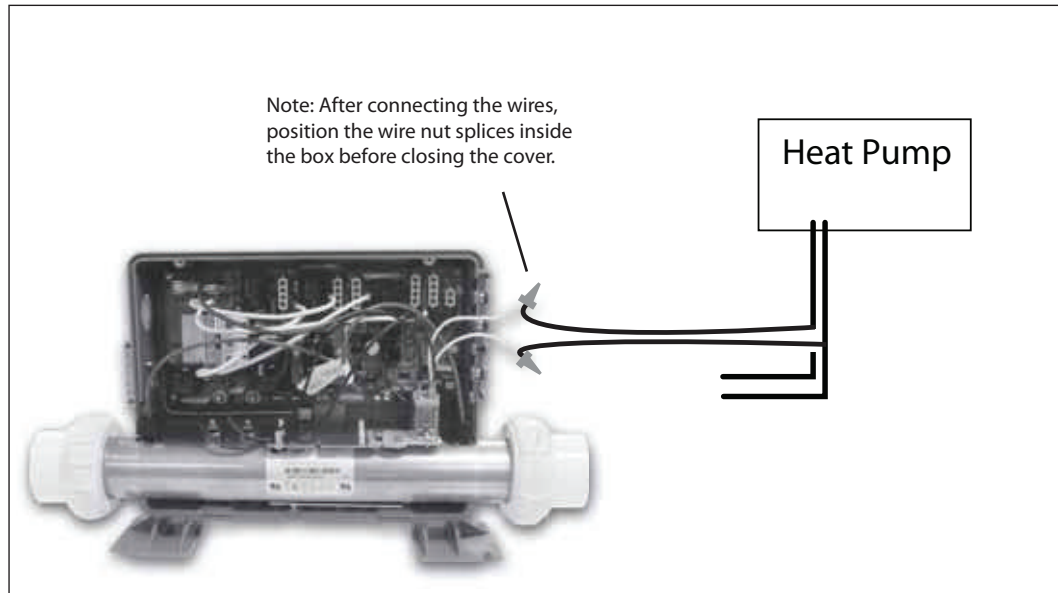
- To reinstall the Expander Board, align the mounting holes on the board to the 3 plastic stand-off and snap board into place.
- Install screw to the remaining mounting hole into the metal stand-off.

STEP 8



- Attach the black wires from the Heat Pump Relay Kit to the main circuit board using the tabs near the heater terminals. Terminals J48 and J49 for the BP2100, BP6013 systems. Terminals J100 and J101 for the BP601 systems. These wires run the 240V coil of the relay when the spa control calls for heat.

STEP 9



- Attach the white wires from the Heat Pump Relay Kit to the Heat Pump control circuit input.
- Restore the power to the system.
- Turn Heat Pump on.
- Set Heat pump to the maximum temperature setting possible (40c/104f).
- Spa Control System will turn on the heat pump to heat just as it turned on the electric heater.

IMPORTANT NOTES:

- The Heat Pump must be setup with its own input line power and be able to satisfy the line maximum power requirements.
- Ensure that the spa pump that controls the water to the Electric Heater in the spa pack is also installed on the same plumbing line as the heat pump.
- The Heat Pump must be installed by the OEM so that the water flows from the tub into the Electric Heater then through the Heat Pump and back into the tub.
- The system cannot detect flow issues when the Electric Heater is unused. The Heat Pump must have its own flow detection.

WARNING: MAKE SURE TO READ AND FOLLOW THE HEAT PUMP INSTRUCTIONS FOR INSTALLATION OR USE.