Toe Space Heater w/ Remote Thermostat

- The Marley QTS heater can be wired with the built-in thermostat or with a remote line voltage wall thermostat. If you are using a remote wall thermostat a ***3 wire w/ ground*** is needed from the thermostat to the heater. Following are the instructions to wire the Marley QTS with a remote wall thermostat.



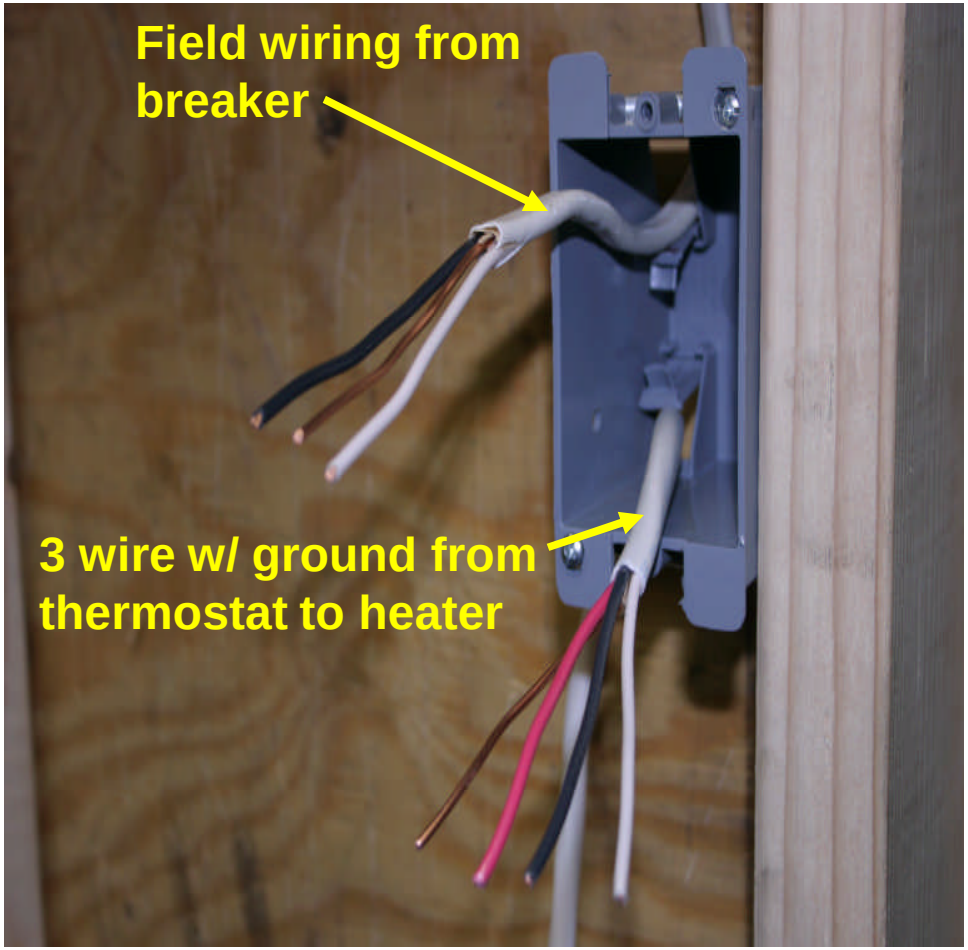


QTS with remote wall thermostat

Refer to the wiring diagram located in the QTS instruction manual.

- To operate the QTS heater with a remote wall thermostat you must use a 3 wire w/ ground cable as shown.

- The thermostat will need to be a double pole model (example, M602) were only one leg cycles on temperature.

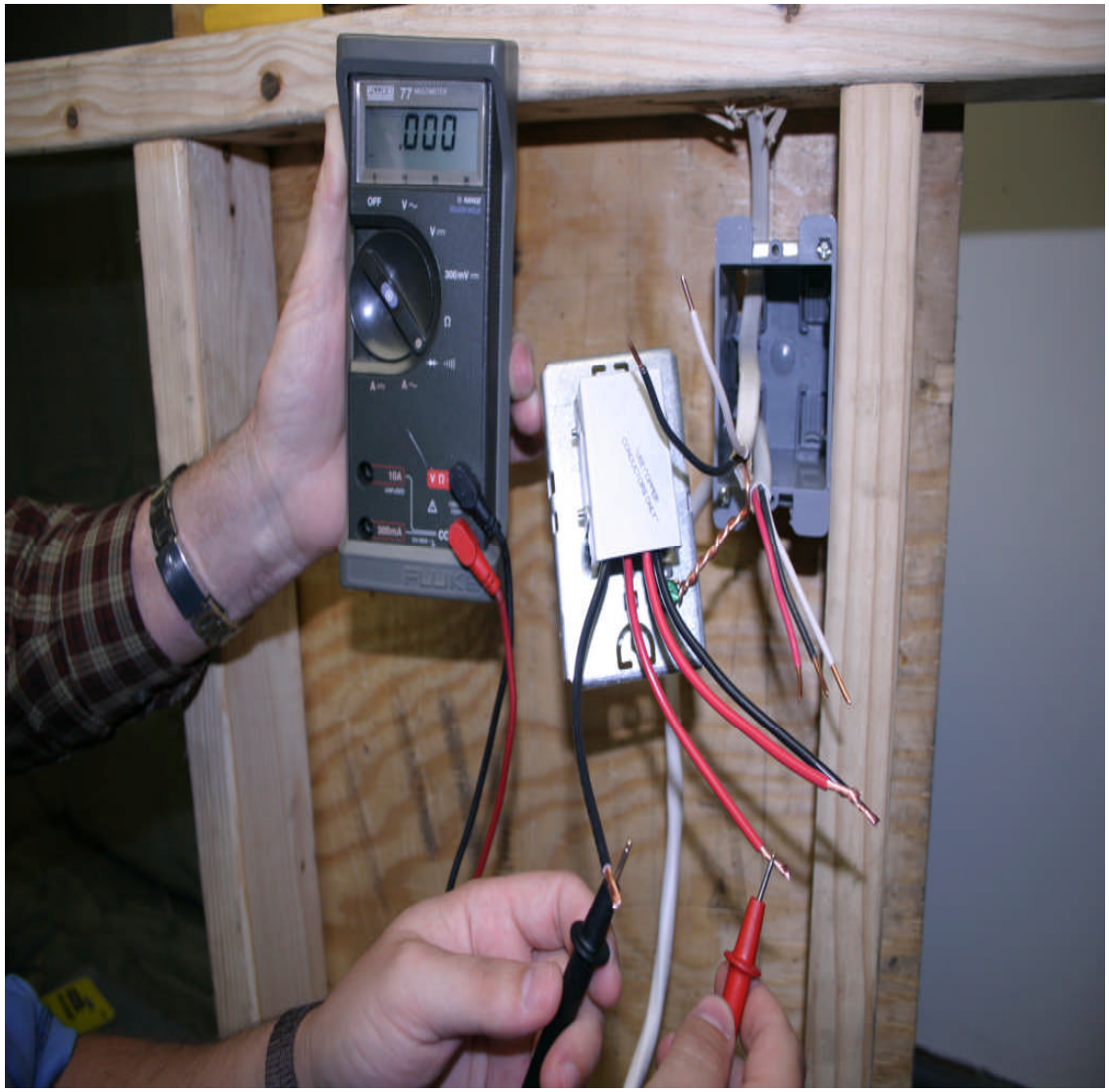


- Notice the BLACK tape wrapped around the white wires from the breaker and the heater cables. This is to identify these wires as HOT wires instead of Neutral wires.



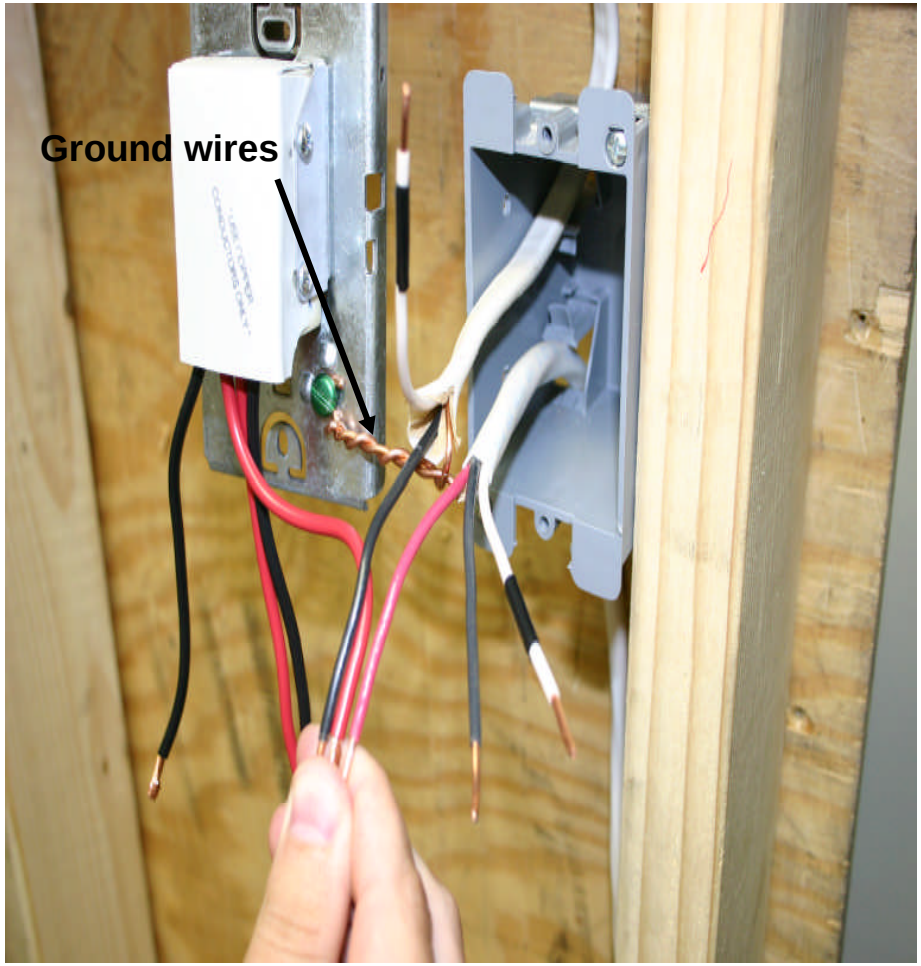
STEP 1

- Using a multi-meter determine which leg of the thermostat is the cycle leg and which is the ON-OFF leg.
- Do this by turning the thermostat to the OFF position and then turning the knob until you notice or hear a click. The leg you read continuity on at this point is the ON-OFF side of the switch.
- Turn the knob again until you notice or hear the second click, read continuity across the other leg and that is the cycle side of the switch. Mark those wires as you will need them later in the instructions.



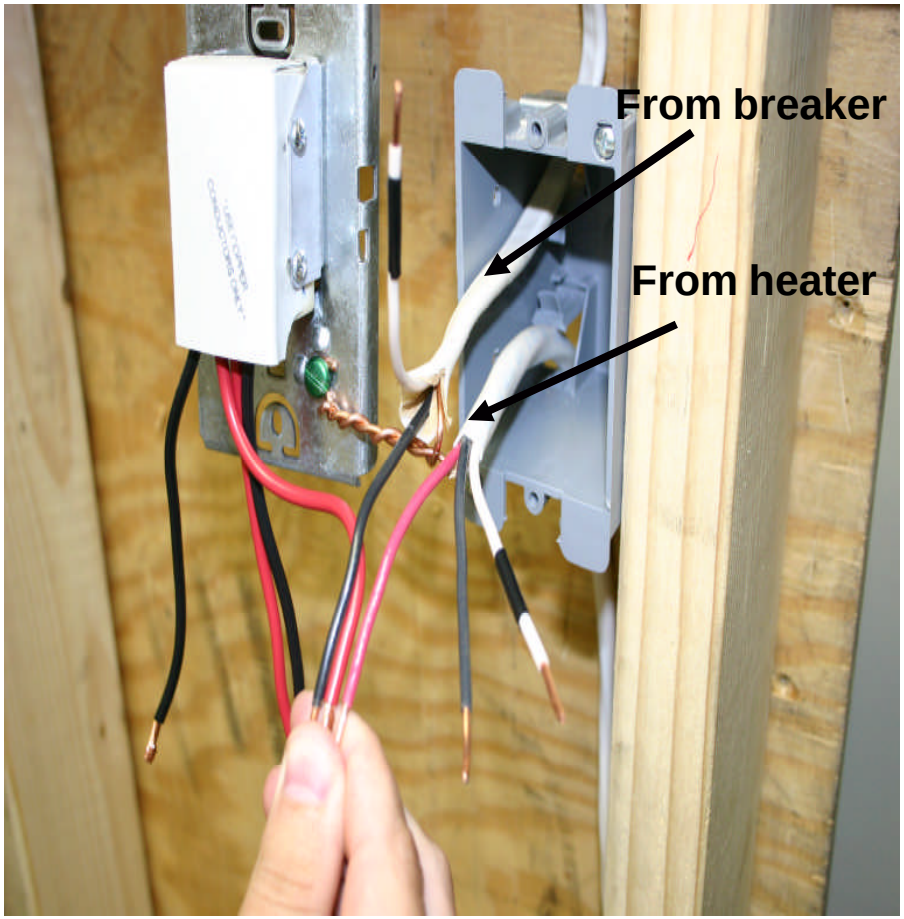
STEP 2

- Attach the ground wire from the breaker and the ground wire from the heater cables to the green ground screw on the thermostat.



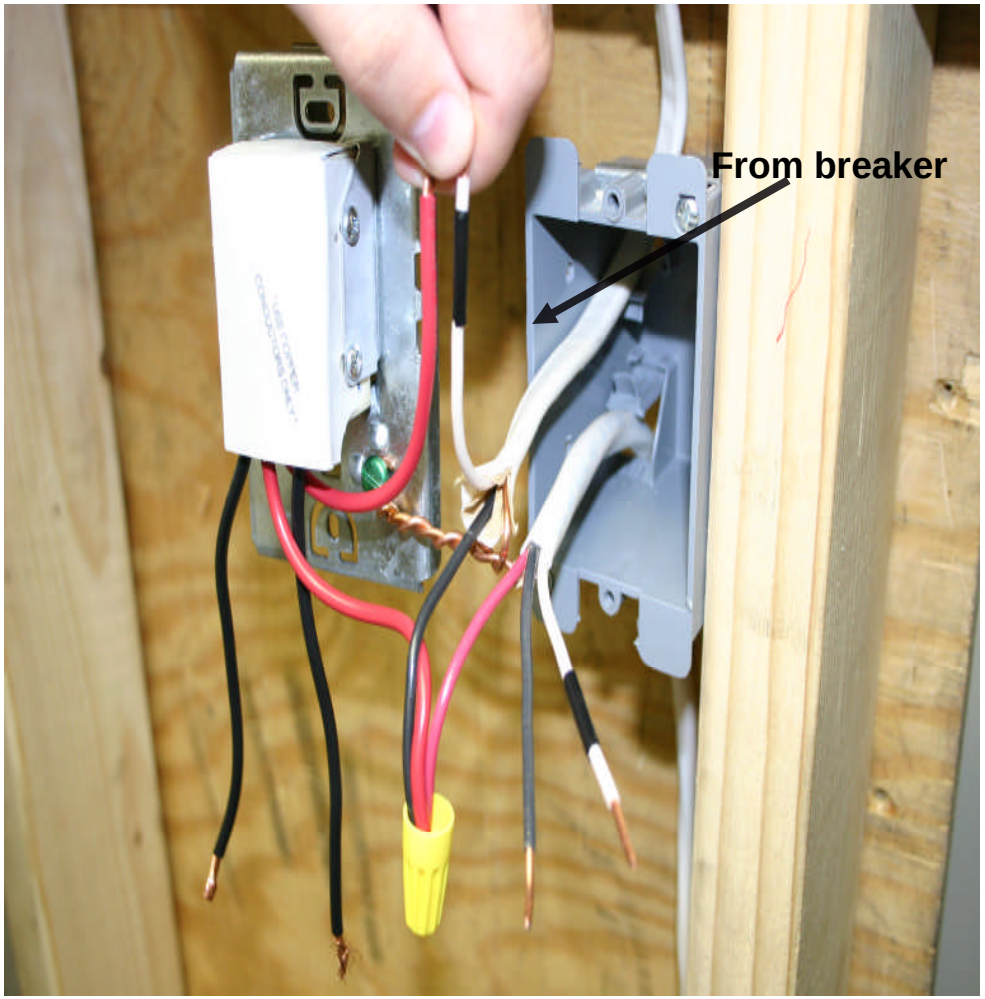
STEP 3

- Tie together the BLACK wire from the breaker, the RED wire from the heater cable and the RED CYCLE wire (see step 1) from the thermostat with a wire nut.



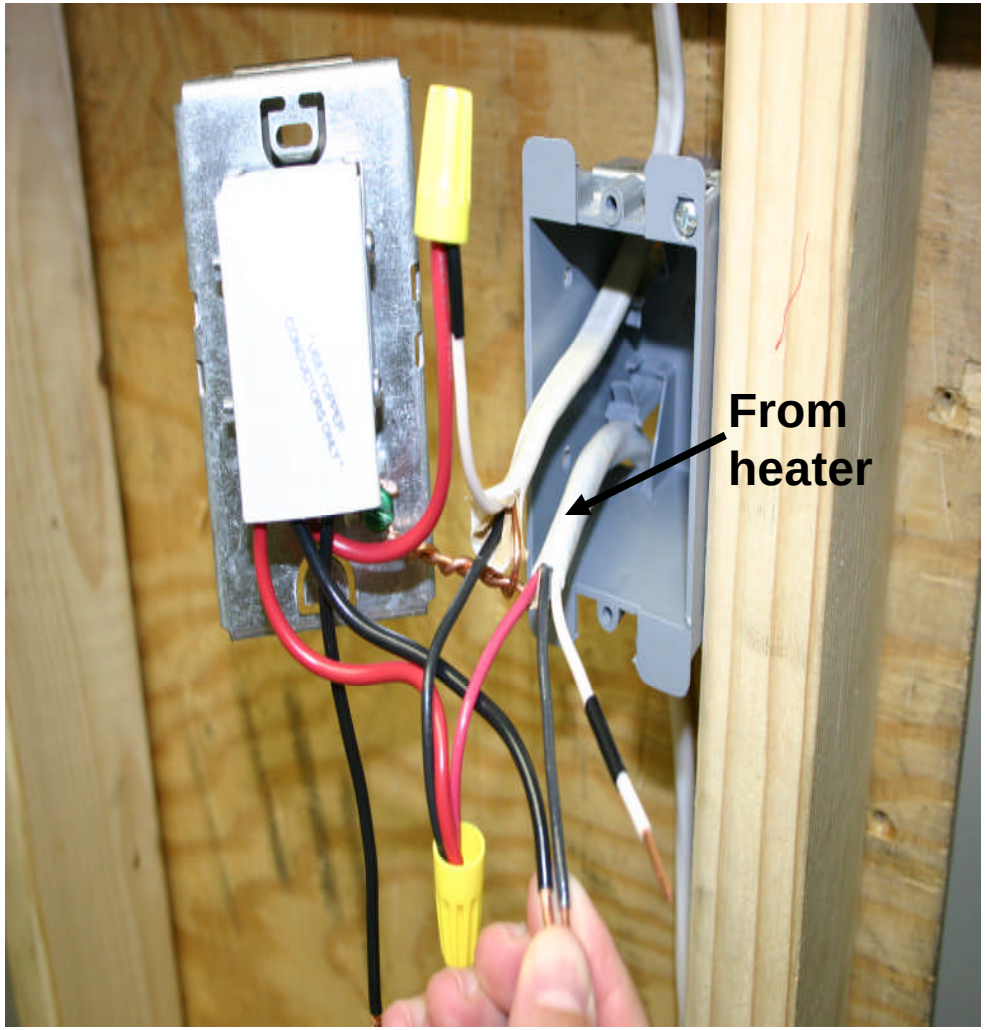
STEP 4

- Attach the WHITE wire (with black tape) from the breaker to the other RED wire on the thermostat with a wire nut.



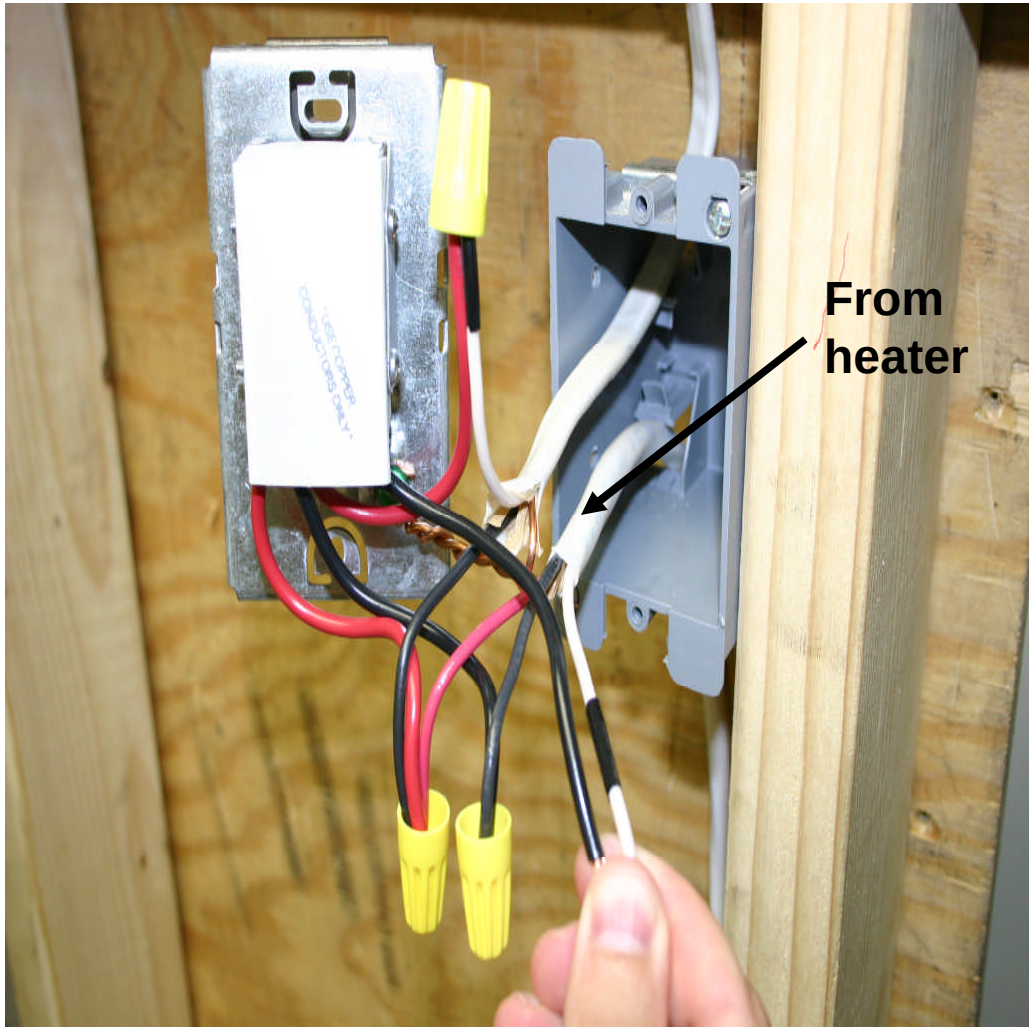
STEP 5

- Attach the BLACK CYCLE wire from the thermostat (refer to step 1) to the BLACK wire from the heater.

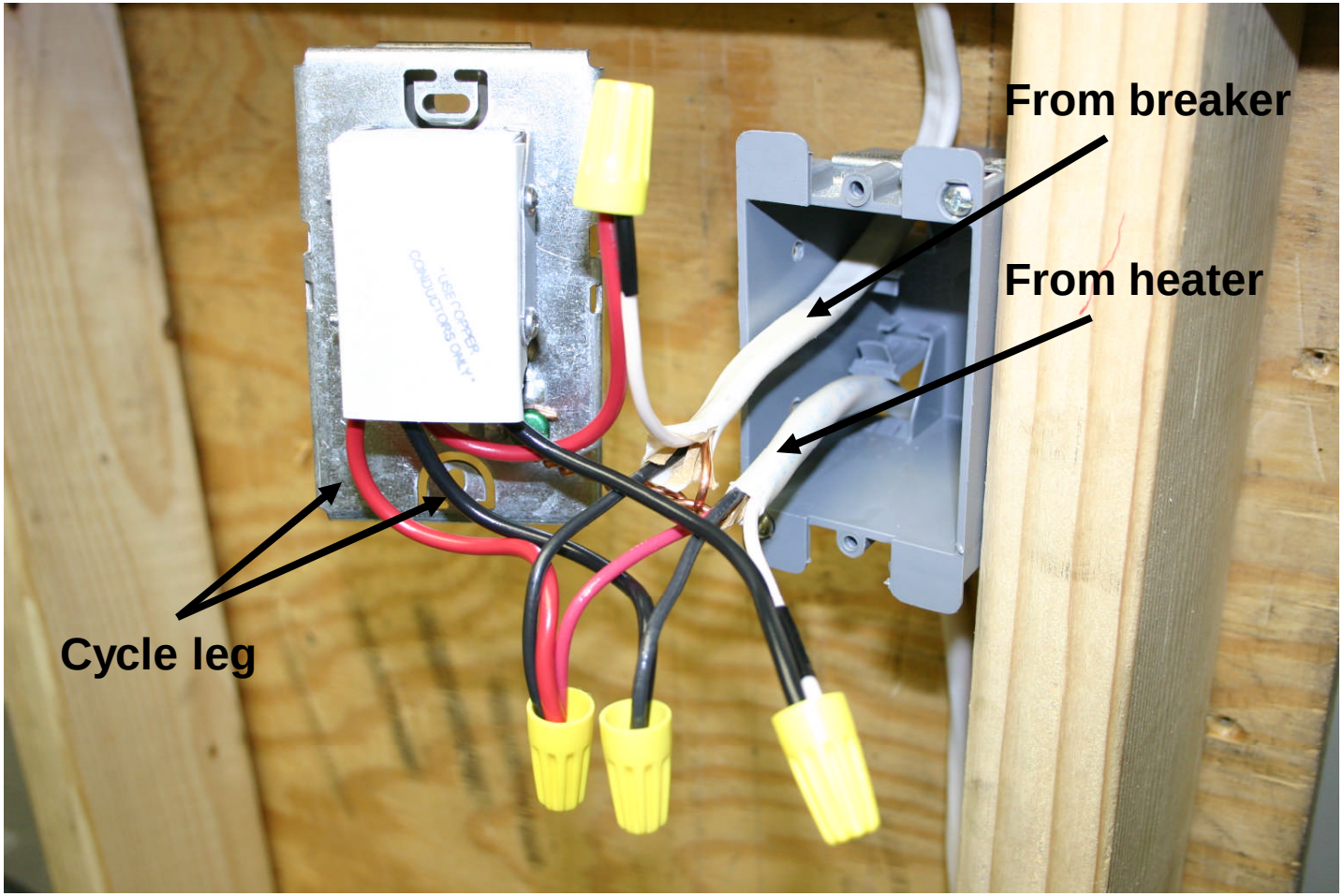


STEP 6

- Attach the other BLACK wire from the thermostat to the WHITE wire (with black tape) from the heater.



Completed Thermostat Wiring

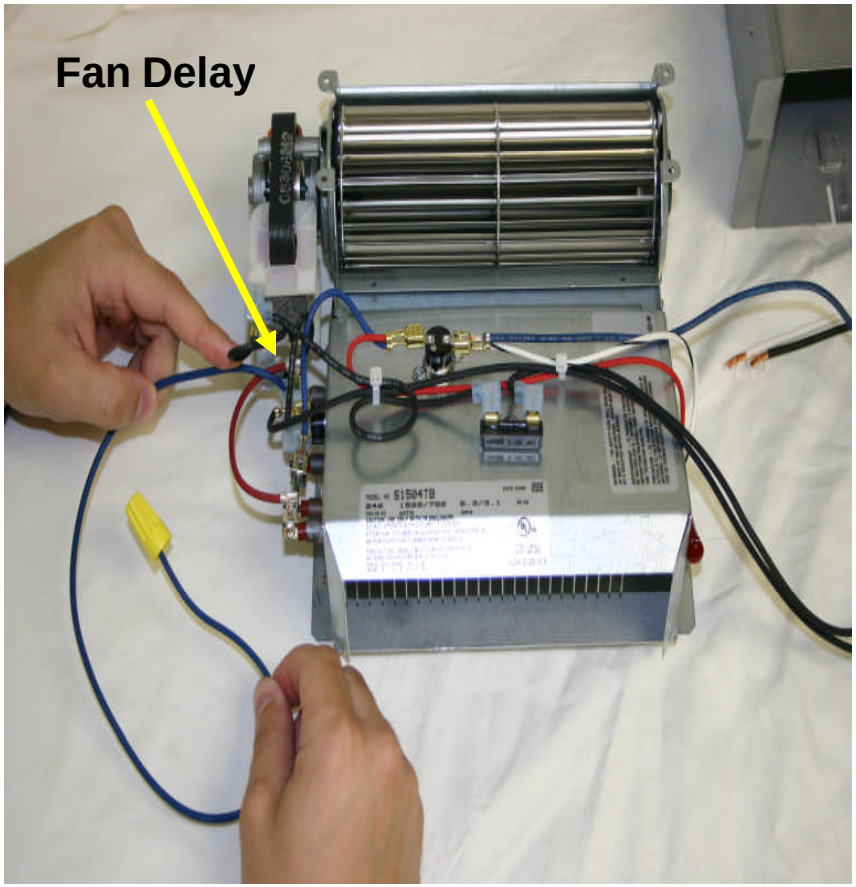


STEP 7

- Locate the Fan Delay switch on the side of the unit as shown, and the attached BLUE wire.

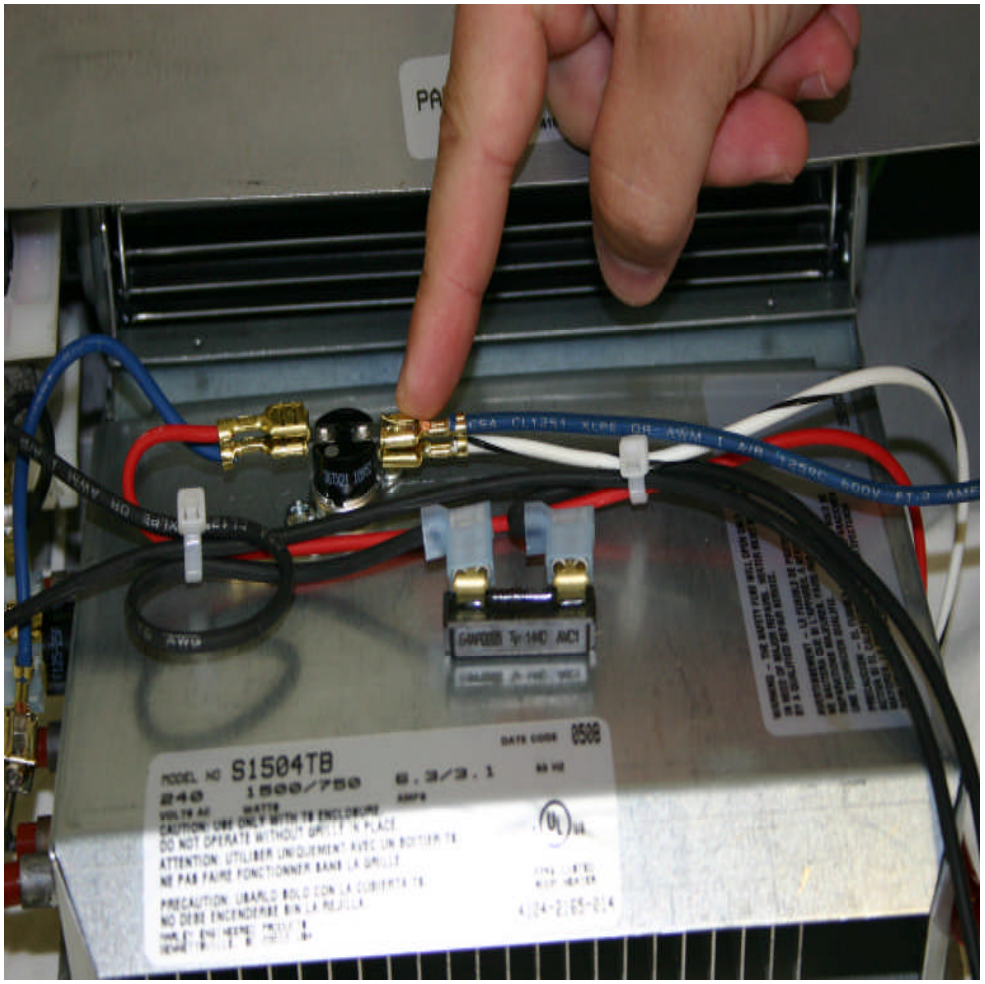
STEP 8

- Cap the Attached BLUE wire with a wire nut. This wire is not used.



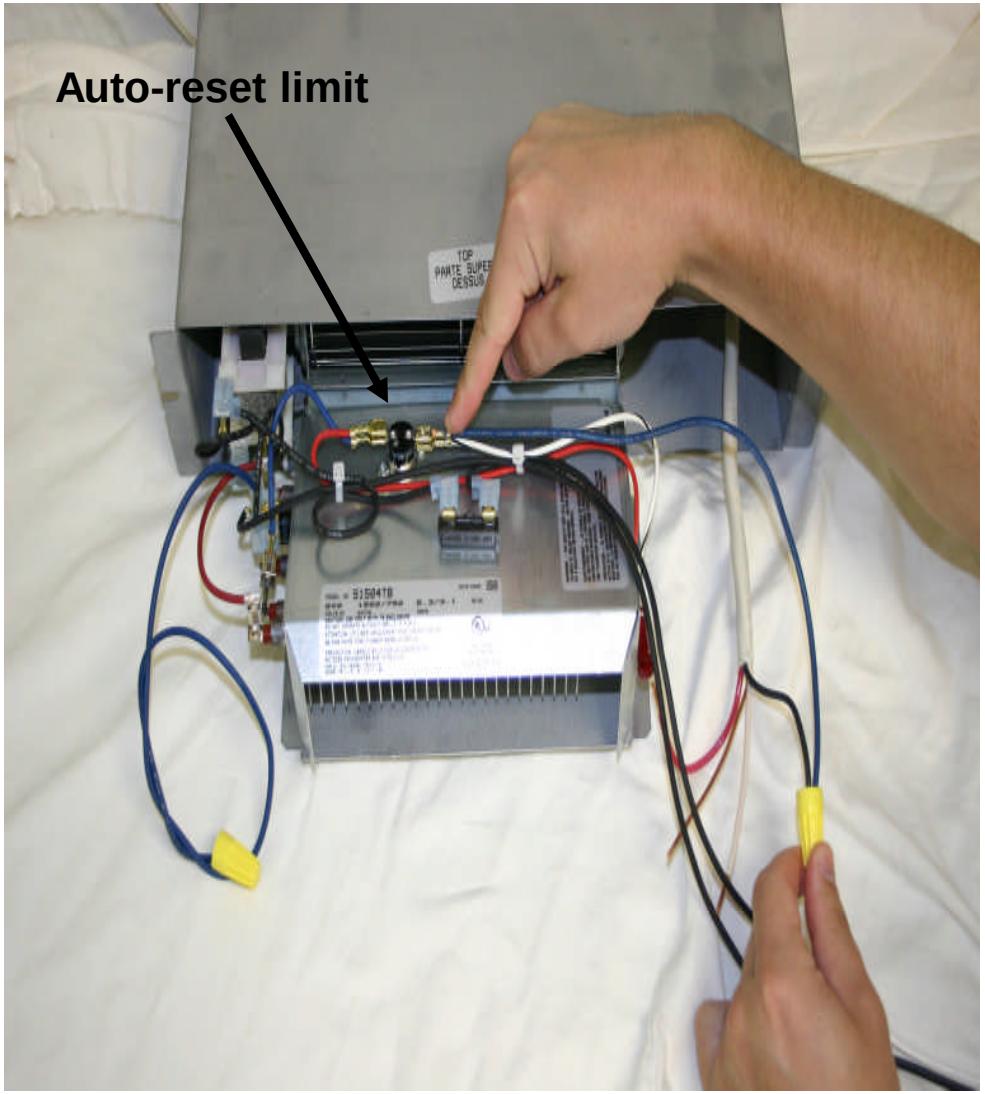
STEP 9

- Locate the Auto-reset limit on top of the unit, and the long BLUE wire that is attached.



Step 10

- Attach the long blue wire from step 9 to the BLACK wire from the thermostat with a wire nut, as shown.

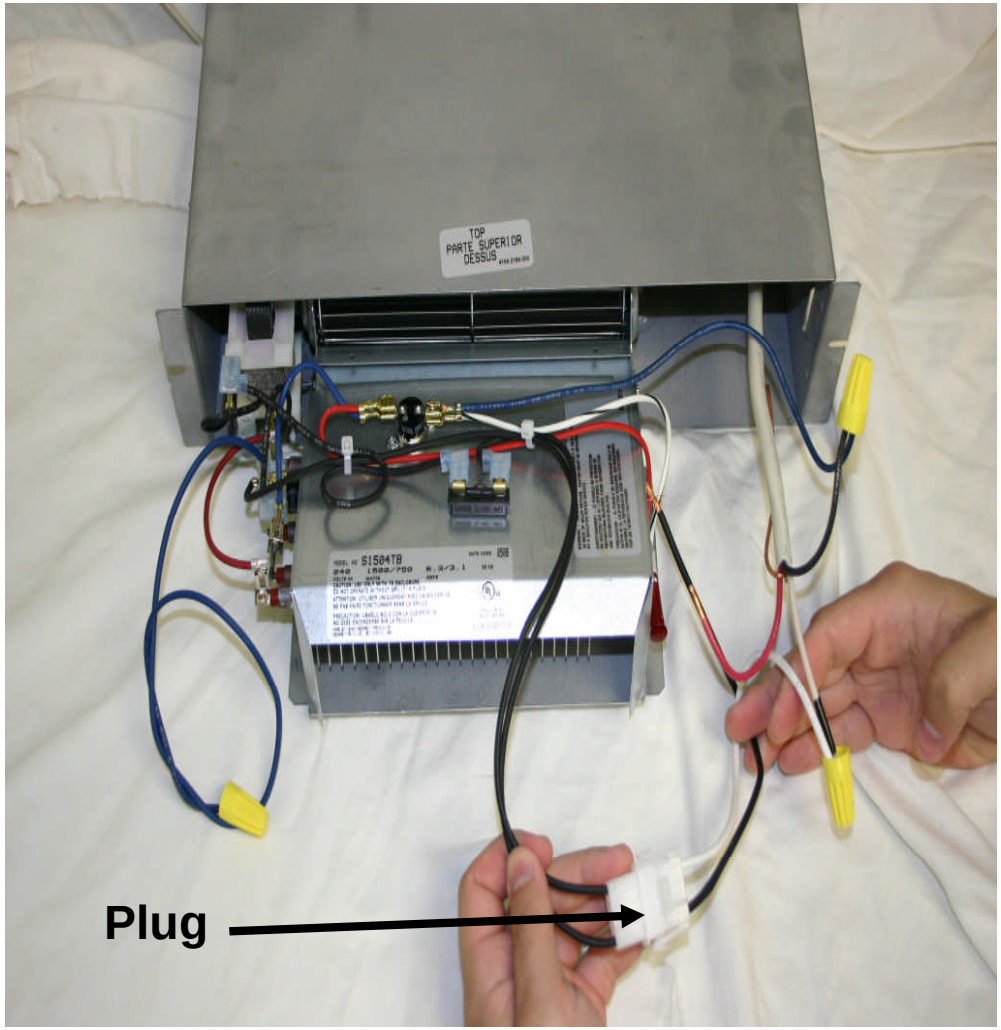


STEP 11

- Locate the two black wires attached to the female plug.
- Attach the male plug with the BLACK and WHITE wires.

STEP 12

- Attach the WHITE wire from the Plug to the WHITE wire from the thermostat

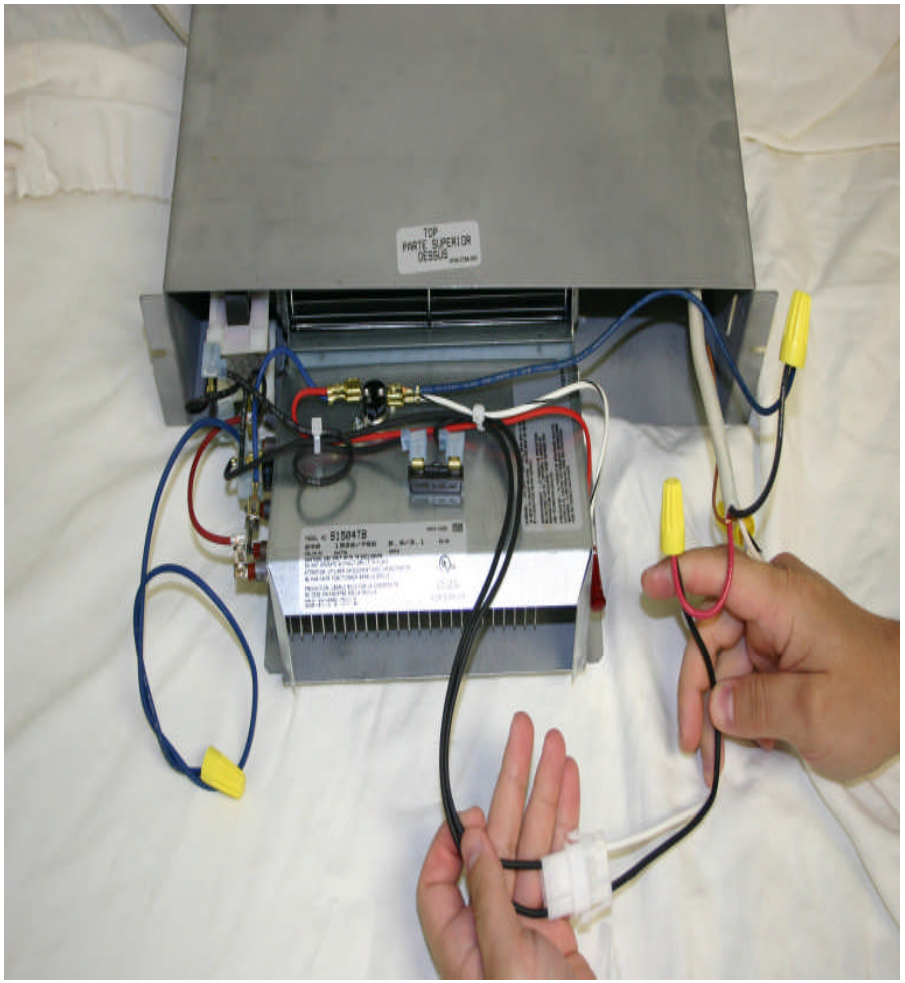


STEP 13

- Attach the BLACK wire from the plug to the RED wire from the thermostat.

STEP14

- Attach the BARE cooper ground wire from the thermostat to the GREEN ground wire inside the heater back box.



QTS Test Procedure

Step 1

- Turn the thermostat to the OFF position.

STEP 2

- Turn on the power to the unit.

STEP 3

- Allow the unit to sit 3 minutes. There should be no heat and no fan in operation.

Step 4

- Turn the thermostat to the highest setting, within 30 seconds there should be heat at the element.

STEP 5

- Within 45 -60 seconds the fan should turn ON. (The fan operates on a delay)

Step 6

- Allow the heater to run 4-5 minutes, then turn the thermostat down slowly until you here a click. The elements should turn off and the fan continues to operate until the unit has cooled down. (usually 1-2 minutes)

  Note: If the fan turns off when you turn the thermostat down, refer back to steps 1 and 2.