



Pilot Assembly Replacement Manual

Parts Needed:

Phillips head screwdriver #2
Two Adjustable Crescent Wrenches
Replacement Pilot Assembly



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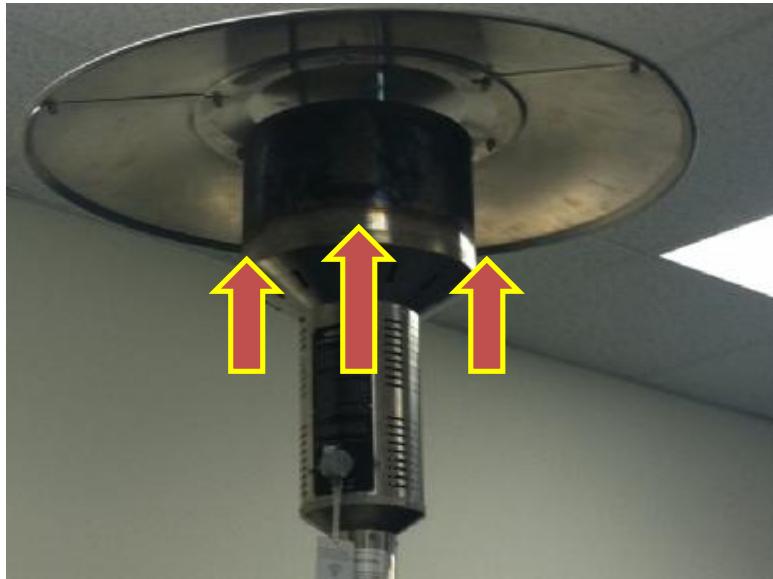
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1.



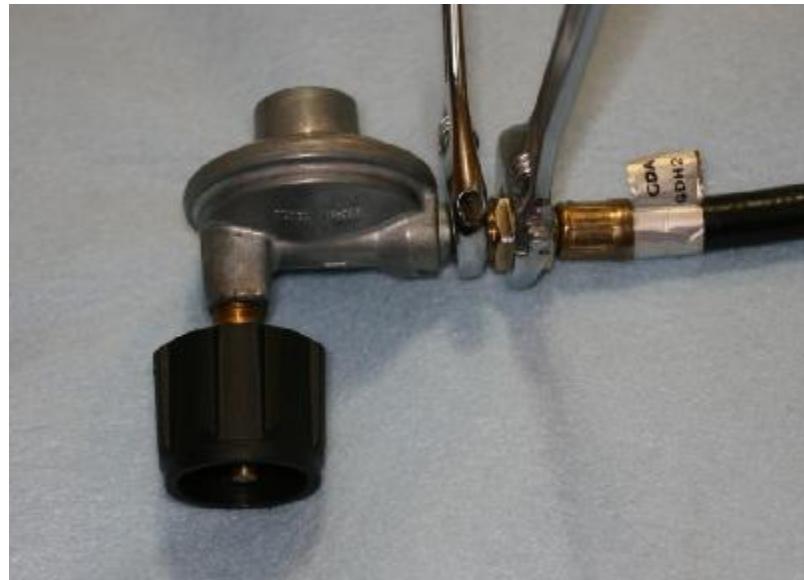
Lift the Decorative Tank cover from the Propane Tank, and turn the Tank valve off by rotating in a clock wise direction. Then disconnect the gas pressure regulator from the propane tank by rotating the coupling nut counter clockwise.

3.



To begin removing the Emitter Grid, remove four screws at the base of the emitter grid.

2.



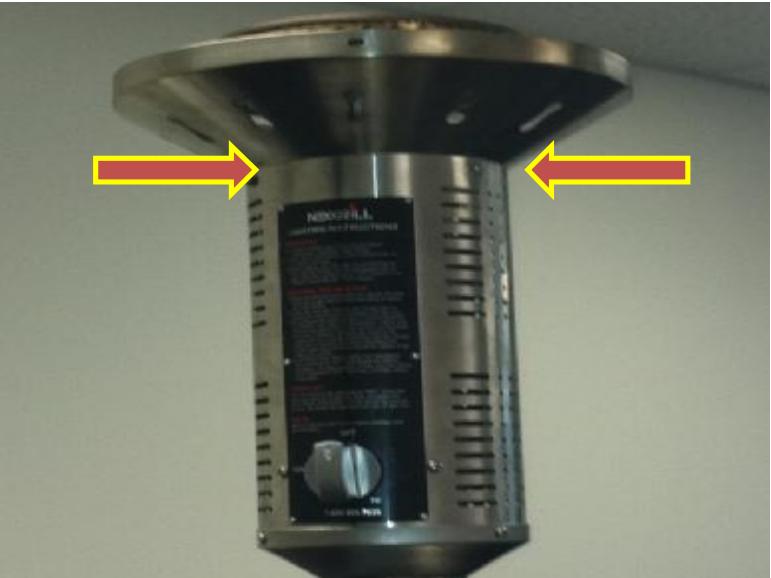
Using two crescent wrenches, separate the gas hose from the gas pressure regulator at the two brass fittings.

4.



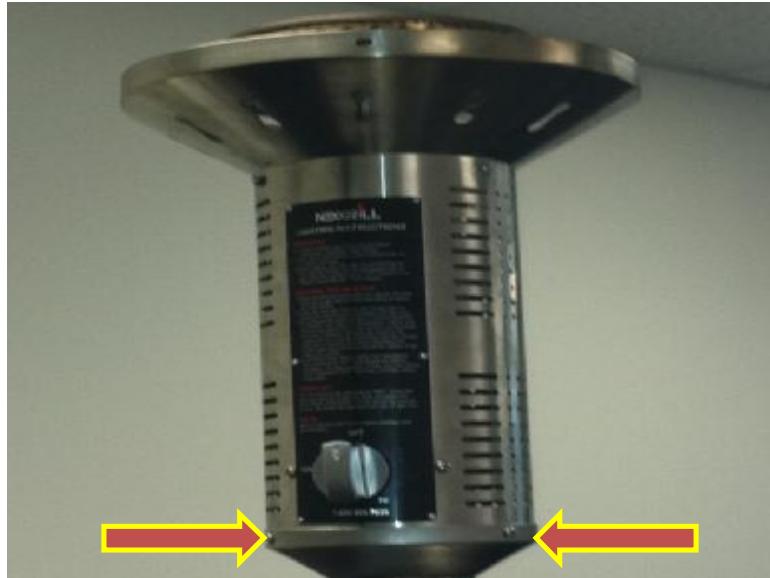
Remove the Emitter grid with reflector array still attached.

5.



Remove three screws at the top of the control housing.

6.



Remove three screws at the bottom of the control housing.

7.



Lift the control housing and emitter base containing the main burner assembly and gas hose clear of the post and control housing base.

8.



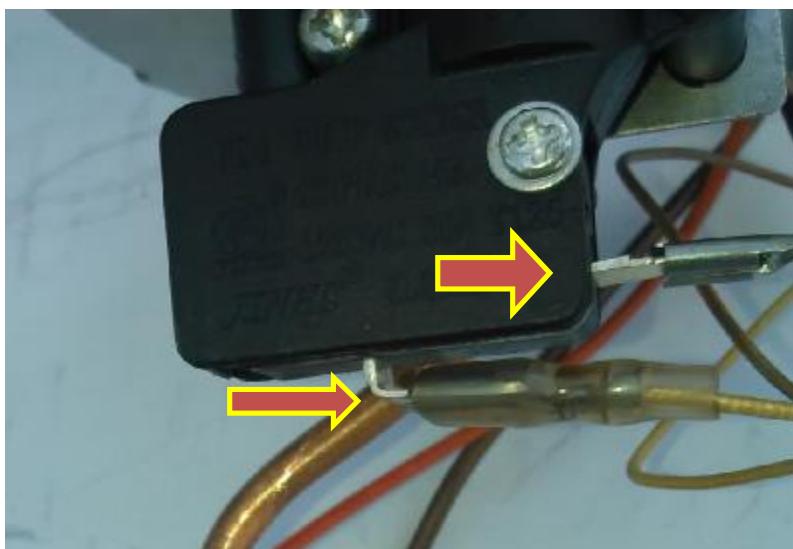
Remove the two screws to the immediate right and left of the main control knob. Then pull the control knob to remove it.

9.



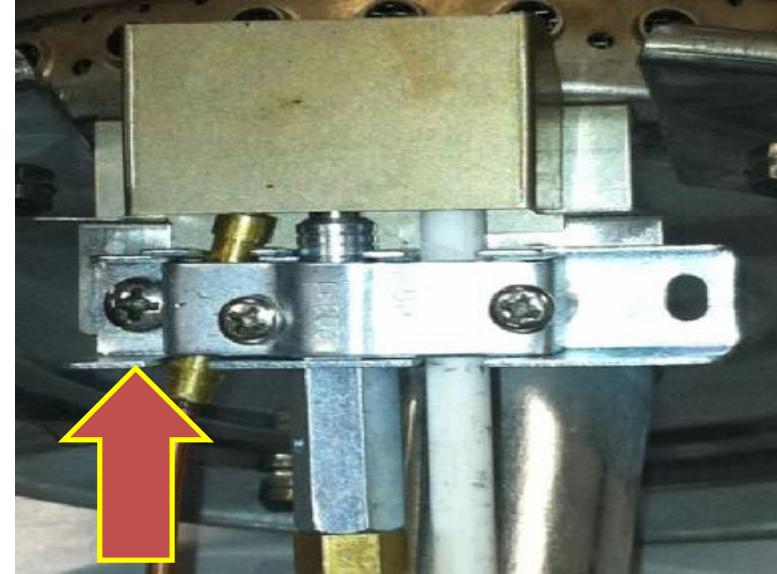
Lift the main burner assembly, attached control parts and gas hose clear of the control housing and emitter base.

11.



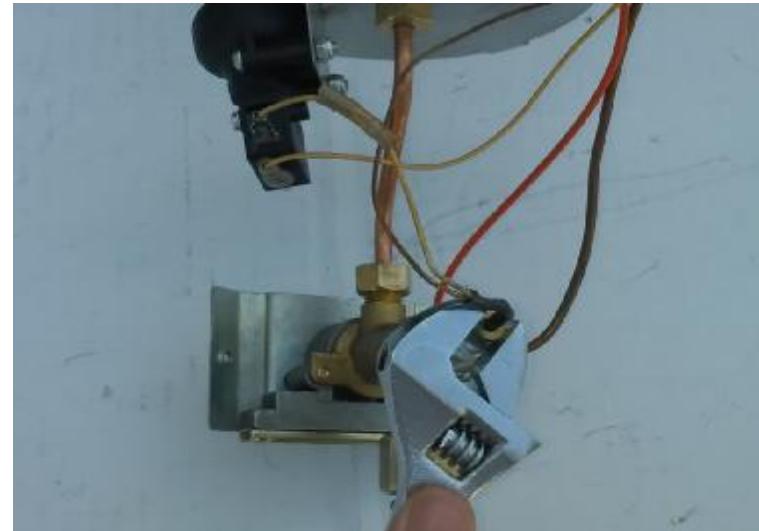
Remove the two quick disconnects coming from the thermocouple in the old pilot assembly that are connected to the base of the tip switch. Connect the two quick disconnects that are a part of the new thermocouple (located on left side of pilot assembly). Care must be taken to prevent damage to the insulation on the copper wire to which the quick disconnects are attached.

10.



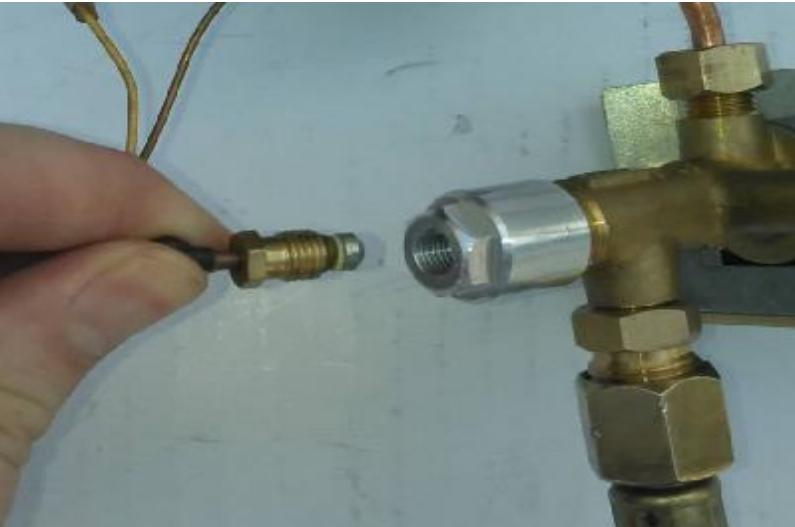
Remove the pilot assembly by removing the screw at the extreme left. Note the location of the pilot shield as you remove the pilot assembly. Secure the new pilot assembly making sure to return the pilot shield to its original location.

12.

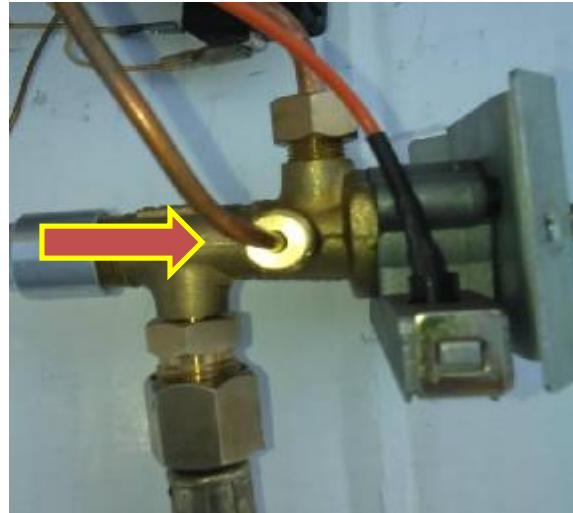


Using an adjustable crescent wrench, remove the nut that is securing the two conductors coming from the old thermocouple and going to the electro magnet on the end of the valve assembly.

13.

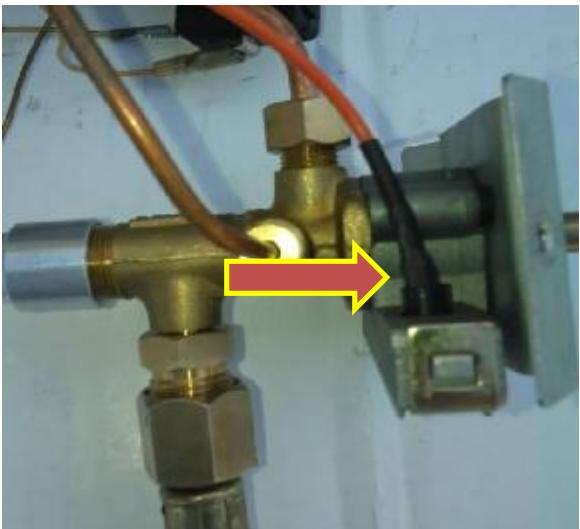


14.



Using a cotton swab dipped in rubbing alcohol, clean the threads and bottom of the threaded hole in the electro magnet. Insert the end of the new thermocouple and tighten the nut with a crescent wrench. Do not over tighten. Tighten only enough to get good electrical contact at the bottom.

15.



Remove the ignition wire quick disconnect from the top side of the piezo igniter mounted directly behind the bracket securing the gas valve. Connect the new quick disconnect to the spade on the top side of the piezo igniter. This completes the attachment of the new pilot assembly to the burner and gas valve. Next is the reassembly of the heater.

16. To reassemble the heater, start with step 9 and work backwards to step 1. Then follow the instructions provided in the Installation Instructions and Owner's Manual supplied with the heater with regards to checking for gas leaks. In addition, squirt some soapy water solution through the two 1/2 inch diameter holes to the left of the burner control knob just after lighting the heater. If bubbles are observed at any of the three gas connections between the burner valve and the burner or pilot assembly, immediately turn off the heater and close the propane tank valve. Correct leaks and retest.

Recap

With the pilot assembly in place, there should be a 1-inch flame on the burners while the unit is in operation at the high setting.

If you need further assistance, please call us at 1-800-913-8999, and use option 1 to reach technical support."