

Cottage Franklin Pilot Assembly Replacement Instructions

This procedure should only be performed by a qualified gas technician. Please read all of the instructions before beginning this procedure. Confirm that you have all the necessary tools and materials. If you have any questions, technical support is available, Monday- Saturday 9:00- 5:00 ET.

Tools Needed:

- Small flat blade screwdriver
- 3/8" wrench
- 7/16" wrench
- 5/8" wrench
- 1/4" nut driver
- 5/32" allen wrench (long t-handle is preferable)

Materials Needed:

- Replacement pilot assembly part #G-272 (LP) or G-273 (NG)
- Replacement gasket/ riser Part # Cera-1

Note: The Cottage Franklin gas stove may be equipped with a cast iron riser below the pilot assembly. It is designed to keep the proper alignment between the pilot flame and main burner. The cast iron riser will be replaced by the Cera felt gasket. It is extremely important that the proper alignment is maintained to avoid a potential delayed ignition.

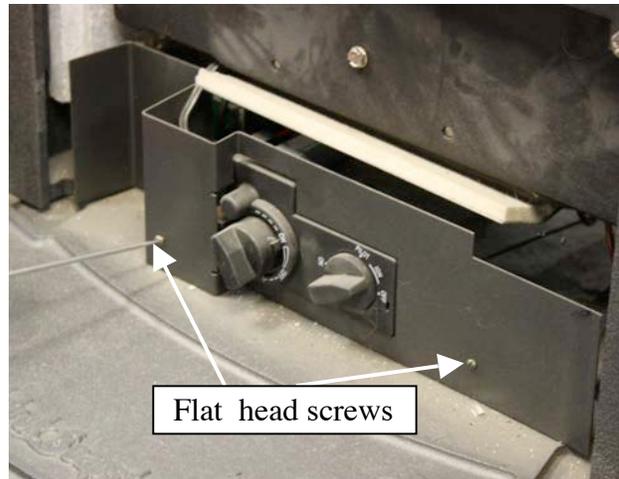
1. Make sure the stove is off and cool.
2. Turn off the main gas valve on the gas supply line.
3. Remove the cast front from the stove. Lift up, and swing the bottom away from the stove.



4. Remove the cover plate that surrounds the control valve using a small flat blade screwdriver.



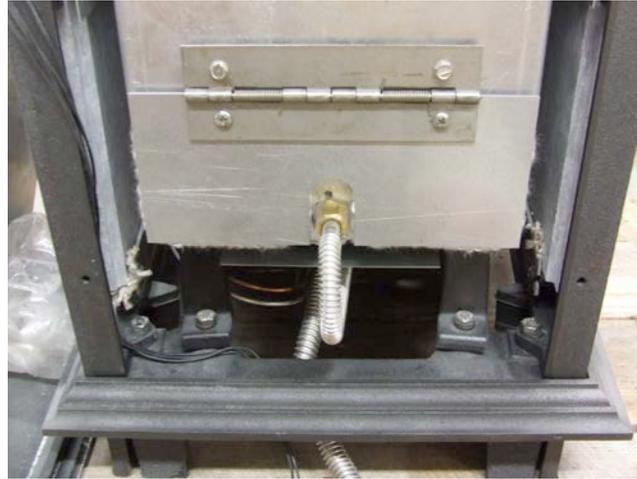
5. Use a 7/16" wrench to remove bolts that secure the control valve mounting plate to the base of the stove.



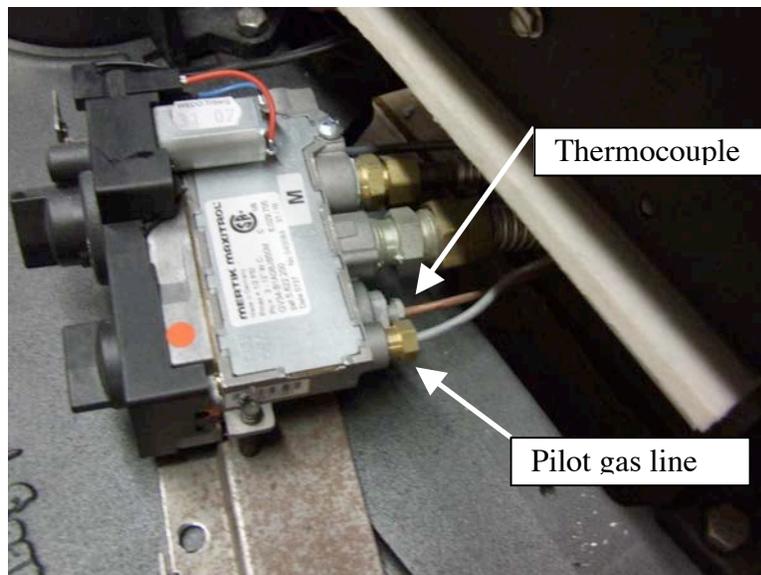
6. Use a 5/32" allen wrench to remove all six of the screws fastening the rear panel to the back of the stove. One of the six is the screw that also holds the switch box in place and must be accessed through the upper hole in the switch box.



7. Remove the two screws to the right of the switch box with a 1/4" nut driver.
8. Slide the rubber grommet out of the slot in the rear panel so that the wires stay
9. positioned behind the side stone heat shield.
10. Move the rear panel out of the way to access the gas manifold.
11. Use a 5/8" wrench to disconnect the manifold from the rear of the firebox.



12. From the front of the stove, pull the control valve forward far enough to access the pilot and thermocouple connections at the rear of the control valve.



13. Disconnect the pilot gas line and thermocouple from the control valve. Use a 3/8" wrench to disconnect the copper thermocouple wire from the control valve. Use a 7/16" wrench to disconnect the aluminum pilot line. Unplug the black igniter wire from the bottom of the pilot assembly.
14. Remove the window and frame. Use a pair of pliers or the window clip tool to release the spring loaded window clips. Lift the glass and frame out of the bottom glass retainer.



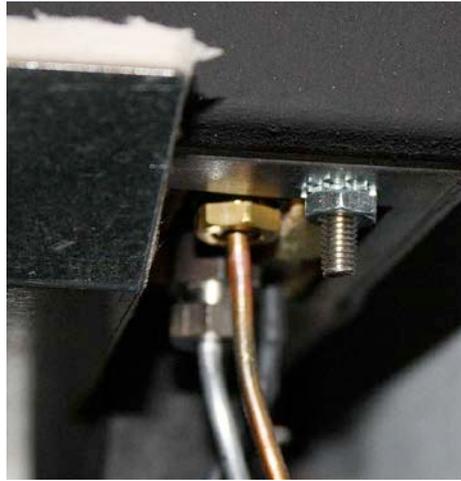
15. Remove the log set carefully, it is fragile. Lift the rear log off of the base first. Carefully lift the front edge of the base up, then support the base from below as you remove it from the firebox.



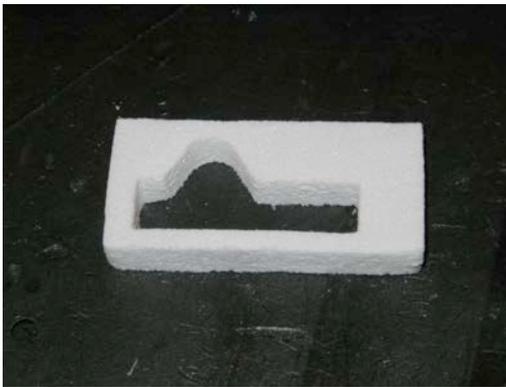
16. The burner pan is held in place by a bolt through the front, center of the firebox. Remove the bolt with a 5/16" wrench or nut driver.



17. Lift the front edge of the burner pan and then pull the pan up and out of the firebox.
18. Remove the two bolts that fasten the pilot assembly to the base of the firebox by holding the nuts under the assembly with a 5/16" wrench and remove the screws from inside the firebox.

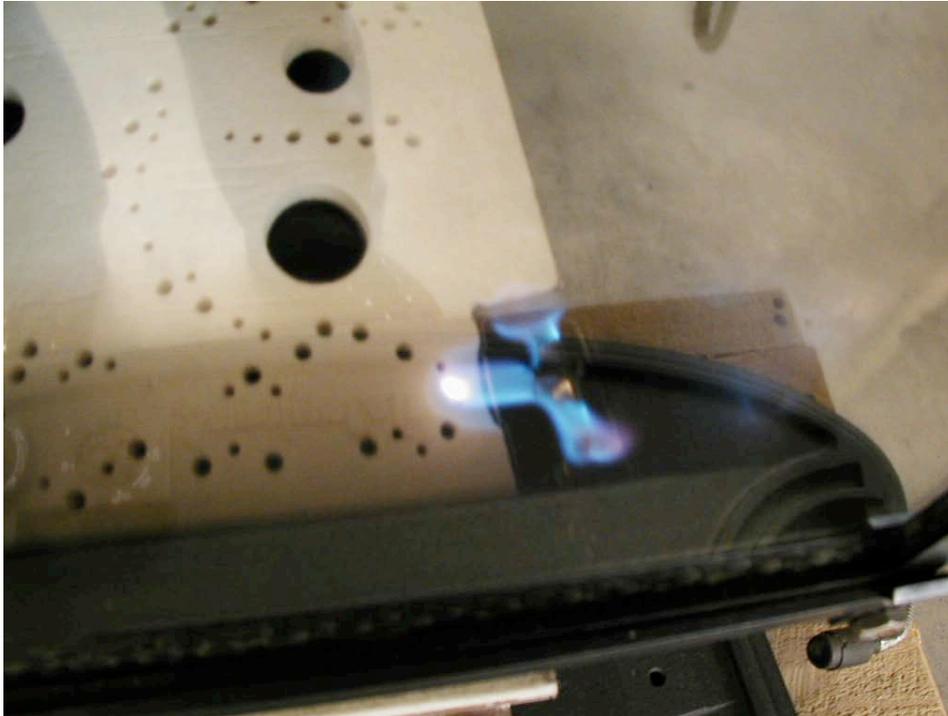


19. Pull the pilot assembly out of the stove.
20. If there is a cast iron riser under the pilot assembly, remove and discard it.
21. The new Cera felt gasket is cut to fit the configuration of the pilot assembly. Be sure it is properly oriented when you slide it over the connections from the pilot assembly



22. **Note: The open side of the pilot hood must face the burner pan to ensure proper stove operation.**
23. Fasten the pilot assembly to the base with the (2) 10-32 bolts and nuts. It may be helpful to “pre-drill” the gasket with a drill bit or sharp object to accept the mounting hardware.
24. Wrap the ends of the thermocouple line (copper) and the pilot line (aluminum) around an object that has about a 1” diameter to keep the excess wire neat and leave the connectors at an angle that permits them to thread into the control valve. **Do not kink the pilot line.** Connect them to the control valve using the proper size wrenches. Make sure that all connections are tight, but do not over tighten.
25. Plug the igniter wire into the igniter on the bottom of the pilot assembly bracket.
26. Fasten the control valve mounting plate to the base using a 7/16” wrench.
27. Use a 5/8” wrench to connect the manifold to the rear of the firebox.
28. Next install the burner pan, lining up the venturi tube with the orifice at the rear of the firebox and then lowering it down into position. Fasten it into the stove by tightening the burner pan transport screw.

29. Carefully place the log set back on the burner. Ease it as far forward and to the left as possible. Log placement is critical for the best flame appearance and stove performance. Improper alignment can cause tall, stringy flames or short flames. It can also create excessive carbon and soot buildup on the log set and firebox.
30. Replace the window and frame and fasten with the two spring loaded window clips.
31. Turn the gas supply valve on. Light the pilot and check for gas leakage on the aluminum pilot tube connections. **DO NOT LIGHT THE BURNER YET!**
32. Visually inspect the three flames of the pilot assembly making sure that the middle flame fires across the top surface of the pan. If it does not then you must use pliers to carefully bend the pilot hood upward so that it does.



33. **IMPORTANT: FAILURE TO DO THIS WILL RESULT IN A POOLING OF GAS THAT MAY LEAD TO A DELAYED IGNITION!**
34. Once the pilot flame has been checked, light the burner and check the manifold tube connections for leakage.
35. Do not operate the unit if any leaks are present.
36. Slide the rubber grommet back into the slot on the rear panel and start all of the six screws to hold it in place. Once all screws are inserted, tighten them all securely. Make sure the wires to the frame switch are positioned behind the side shield and protrude up through the “V shaped angle at the top of the shield. You can see this using a flashlight through the vent port just under the side lip of the top cast frame
37. Insert the (2) screws to the right of the frame switch mounting bracket using 1/4” nut driver.
38. Fasten the control valve cover plate to the mounting bracket with a small flat blade screwdriver.
39. Install the cast front by placing the top bracket up into position, holding the front upward, swinging the bottom of the front in toward the stove and then lowering it into position.

Please call Woodstock Soapstone directly if you have any questions about this procedure at 1-800-866-4344, 9 a.m.- 5 p.m. ET. Monday through Saturday

Revised 8/8/11

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