

THERMOPILE 2103-512

INSTALLATION INSTRUCTIONS

Replaces MPNs: R-1054, 308-0056, TP-38, H5882, 60J79, 60J7901, 98900752, & More

Before Installing

- **ALWAYS** unplug the unit before beginning any work
 - **ALWAYS** ensure the fuel supply line is completely shut off before starting any work.
 - Allow the unit to cool completely if recently used
 - Work in a well-lit area with proper tools
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Installation Steps

1. Disconnect Power & Fuel

- Ensure the unit is completely cooled down and drained of power.
- Carefully remove the front panel(s) on the unit. Removal may vary by model, refer to your unit's owner's manual for removal guidelines.
- Unplug the stove from the power source. The source is typically by the valve assembly under the unit
- Shut off the main fuel supply line to the unit starting with the shut-off valve closest to the unit.
 - Some units may feature both an interior supply line and outdoor exterior supply line. Ensure both valves are completely closed.
 - Depending on the unit, you may need to shut off the fuel line from the main fuel tank for further safety.
- Ensure the fuel has been cleared from the system by turning on the ignition switch on the valve. You should see a spark and no flame if the system has been fully cleared. It is now safe to proceed to the next step.

2. Access the Unit

- Locate the pilot assembly in the unit. This would typically be located in the floor of the unit under the main burn area.
 - The thermopile is integrated into the pilot assembly.
- Remove any decorative logs, grates or accessories to gain access to the pilot and burner assembly in the unit.

3. Disconnect Pilot Assembly

- Before disconnecting anything, take clear photos of all wiring connections from multiple angles. This is the single best way to avoid mistakes during reassembly.
- Label each line and connector with masking tape and a marker as you remove it. Pilot assemblies typically consist of the igniter, the pilot light, the thermocouple and the thermopile.
- Unplug the igniter wiring lead from the valve wiring harness.
 - **Note:** Always pull on the connector body, never on the wires themselves, pulling on wires can damage the connector or break the crimp.
- Loosen the set screw holding the wireleads to the thermopile and then proceed to disconnect the thermopile from the valve.
- Carefully unscrew the connectors from both the pilot fuel supply and the thermopile and carefully remove them.
 - **Note:** You may need to unfasten the mounting bracket for the valve for easier access depending on the unit.

4. Remove Old Thermopile

- Remove the mounting screws and bracket holding the pilot assembly in place and set these aside. You may need to carefully remove the burner to access the screws depending on your unit.
- Carefully pull the pilot assembly out of the unit. Ensure not to create more bends in the lines for the pilot and thermocouple than necessary.

- The pilot and thermocouple lines are more solid in comparison to the other lines and can break or can have leaks in the bends if bent too much or in too many places.
- Unscrew and gently pull the thermopile out of the pilot assembly.

5. Install New Thermopile

- Insert and screw the tip of the new thermopile into the pilot assembly in the same position as the old thermopile. Tighten until snug, do not overtighten, as excessive force can damage the tip or assembly.
- Insert the pilot assembly into the unit in the same orientation as before. Ensure the leads are inserted first.
 - Be careful not to bend the leads more than necessary when installing the pilot, especially for the thermocouple and pilot.
- Secure the pilot assembly with the screws removed in Step 4. Tighten until snug, do not overtighten, as excessive force can damage screws.

6. Connect Pilot

- Using the reference photos and labels from Step 3, plug the igniter and thermopile wire leads into the valve.
 - The thermopile should connect to the valve's wiring set screws using both red and yellow wire leads.
- Screw the ends of both the pilot and thermocouple leads into the corresponding holes on the valve. Tighten until secure, do not overtighten, as excessive force can damage the connections.
- Ensure each connector is fully seated and secure, you should feel or hear it click into place for the igniter and the thermocouple leads should be held securely in the set screws. A loose connection is the most common cause of post-installation issues.

7. Connect Power & Fuel

- If the valve's mounting bracket was removed in Step 3, secure the mounting back in place.

- If the burner was removed to access the pilot carefully reinstall the burner.
 - Install any firelogs, grates and accessories removed in Step 2
 - Turn on all fuel lines one at a time starting with the shut-off valve farthest from the unit.
 - Plug the unit's power cord into the power source.
 - Replace the front access panels removed in Step 2.
 - Your new igniter is installed and ready to use.
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Post-Installation Check

- Verify all connections are safe and secure.
 - Test igniter operation before closing panels. The igniter should spark when the ignition switch is turned on in the valve.
 - **ALWAYS** check for leaks before turning on the unit and closing the panels. If you hear any unusual hissing noise or notice any odd smells, **IMMEDIATELY** shut off the fuel line and ventilate the room for at least 30 min or much longer before making adjustments to the system. Be sure not to use ignition sources during this time if this happens.
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Support

If you encounter any issues during installation, consult your owner's manual or contact technical support via our contact form.