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› 69L18, 108084-03 Pilot Assembly for Direct Vent Fireplaces User Manual

palart 69L18

69L18, 108084-03 Pilot Assembly User Manual

Model: 69L18

Brand: palart

1. INTRODUCTION

This manual provides essential information for the safe and effective use of the 69L18, 108084-03 Pilot Assembly. This component is a critical replacement part for various direct vent gas fireplaces and stoves, designed specifically for propane (LPG) gas systems. Please read this manual thoroughly before attempting any installation, operation, or maintenance procedures.

2. SAFETY INFORMATION

Always prioritize safety when working with gas appliances. Failure to follow these instructions could result in fire, explosion, property damage, personal injury, or death.

- **Professional Installation Recommended:** Installation and service must be performed by a qualified installer, service agency, or gas supplier.
- **Gas Type:** This pilot assembly is designed for Propane (LPG) gas only. Do not attempt to use it with natural gas or any other fuel type.
- **Gas Leaks:** If you smell gas, immediately shut off the gas supply, open windows, and evacuate the area. Do not operate electrical switches or phones. Contact your gas supplier or fire department.
- **Ventilation:** Ensure proper ventilation in the area where the appliance is installed.
- **Appliance Disconnection:** Always disconnect the appliance from the gas supply and allow it to cool before performing any service or maintenance.
- **Component Integrity:** Do not operate the appliance if any part of the pilot assembly or gas system is damaged or malfunctioning.

3. PRODUCT OVERVIEW

The 69L18, 108084-03 Pilot Assembly is a crucial component responsible for igniting the main burner in your gas fireplace. It typically consists of a pilot burner, thermocouple/thermopile, and igniter electrode, all integrated into a single unit.



Figure 1: Overall view of the 69L18, 108084-03 Pilot Assembly, showing the burner head, igniter, thermocouple, and associated wiring and tubing.

Key components include:

- **Pilot Burner:** Provides a small, continuous flame to ignite the main burner.
- **Thermocouple/Thermopile:** Generates a small electrical current when heated by the pilot flame, which signals the gas valve to remain open. This is a safety device.
- **Igniter Electrode:** Creates a spark to light the pilot flame.
- **Pilot Tube:** Delivers gas to the pilot burner.



Figure 2: Detailed view of the connections on the pilot assembly, including the thermocouple/thermopile and gas line connections.

4. COMPATIBILITY

The 69L18, 108084-03 Pilot Assembly is a replacement part compatible with a wide range of direct vent gas fireplaces and stoves from various manufacturers. It replaces part numbers 104497-02 and 26851.

Known compatible brands and models include, but are not limited to:

- Lennox Elite Gas Fireplaces:** EBVSTNM, EBVPFNM, EBVCLNM, EBVCRNM, ED3530CNM, ED4035CNM-2, ED4540CNM-2, EDV3530CNM, EDV3530CNM-B, EDV4035CNM, EDV4035CNM-B, EDV4540CNM, EDV4540CNM-B, EDVSTSTNM, EDVPFNM, EDVCLNM, EDVCRNM, EDSTNM-2, EDPFNM-2, EDCLNM-2, EDCRNM-2, ELDV35NM, ELDV40NM, ELDV45NM.
- Lennox Merit Gas Fireplaces:** LMDVT-3328CNM, LMDVR-3328CNM, LMDV-3530CNM, LMDV-4035CNM, MPB-3328CNM, MPB35ST-NM, MPDT3328CNM (SIT), MPDR3328CNM (SIT), MPD-3530CNM (SIT), MPD3530CNM-B (SIT), MPD-4035CNM (SIT), MPD4035CNM-B (SIT), MPD-4540CNM (SIT), MPD4540CNM-B (SIT), MPD35ST-NM.
- Ironstrike Serefina Gas Stoves:** CI1500DVF, CI1502DVF, CI1504DVF, CI1506DVF, CI1508DVF-2, CI2500DVF, CI2502DVF, CI2504DVF, CI2506DVF, CI2508DVF-2.
- Superior Gas Fireplaces:** DT-400CMN (SIT), DR-400CMN (SIT), DT-500CMN (SIT), DR-500CMN (SIT), DT-600CMN (SIT), DR-600CMN (SIT), DT-800CMN (SIT), DR-800CMN (SIT), SDDV-35NM, SDDV-35PM, SDDV-40NM, SDDV-40PM, SSBV-3530CNM (SIT), SSBV-4035CNM (SIT), SSDVT-3328CNM (SIT), SSDVR-3328CNM (SIT), SSDVT-3530CNM (SIT), SSDVR-3530CNM (SIT), SSDVT-4035CNM (SIT), SSDVR-4035CNM (SIT), SSDVST-CNM, SSDVPF-CNM.

Always verify the compatibility with your specific appliance model and consult your appliance's original manual

or a qualified technician before purchasing or installing.

5. SETUP AND INSTALLATION

Installation of a pilot assembly involves working with gas lines and electrical components. For safety and proper function, it is strongly recommended that installation be performed by a qualified and certified gas technician.

General Steps (for reference only - consult a professional):

1. **Safety First:** Turn off the gas supply to the appliance and disconnect electrical power. Allow the appliance to cool completely.
2. **Access:** Carefully remove any decorative elements, logs, or panels to gain access to the existing pilot assembly.
3. **Disconnect Old Assembly:** Disconnect the gas line, thermocouple/thermopile, and igniter wire from the old pilot assembly and the gas valve/control board. Note the routing of all connections.
4. **Remove Old Assembly:** Unmount the old pilot assembly from its bracket.
5. **Install New Assembly:** Mount the new 69L18, 108084-03 Pilot Assembly onto the bracket in the same orientation as the old one.
6. **Connect Components:** Reconnect the gas line, thermocouple/thermopile, and igniter wire to the new pilot assembly and the appropriate terminals on the gas valve/control board. Ensure all connections are secure and properly tightened.
7. **Leak Test:** Turn the gas supply back on. Apply a leak detection solution (soap and water mixture) to all gas connections. Bubbles indicate a leak. If a leak is detected, shut off the gas immediately and tighten the connection until no bubbles appear.
8. **Restore Power:** Restore electrical power to the appliance.
9. **Test Operation:** Follow the appliance's specific lighting instructions to test the pilot and main burner operation.



Figure 3: The pilot assembly showing the various wires and tubes that need to be connected during installation.

6. OPERATING INSTRUCTIONS

The pilot assembly's operation is integrated with your fireplace's control system. Once installed, its primary function is to provide a reliable ignition source for the main burner.

To operate your fireplace with the new pilot assembly:

1. Ensure the gas supply to the fireplace is open.
2. Follow the specific lighting instructions provided in your fireplace's original user manual. This typically involves turning a control knob to a 'Pilot' position, pressing it in, and then activating the igniter until the pilot flame lights.
3. Once the pilot flame is established and stable (usually after holding the knob for 30-60 seconds), release the knob and turn it to the 'ON' position to engage the main burner.
4. Observe the pilot flame. It should be strong, blue, and engulf the tip of the thermocouple/thermopile.

If the pilot flame does not light or extinguishes, refer to the Troubleshooting section or consult a qualified technician.

7. MAINTENANCE

Regular maintenance helps ensure the longevity and safe operation of your pilot assembly and fireplace. Always ensure the gas supply is off and the appliance is cool before performing any maintenance.

- **Annual Inspection:** Have a qualified technician inspect your fireplace and pilot assembly annually.
- **Pilot Flame Check:** Periodically observe the pilot flame. It should be steady, blue, and consistently impinge on the thermocouple/thermopile. A weak, yellow, or flickering flame may indicate a problem.
- **Cleaning:** Gently clean any dust, lint, or debris from around the pilot burner and thermocouple/thermopile using a soft brush or compressed air. Do not use harsh chemicals.
- **Ventilation:** Ensure that the appliance's vents and air passages are clear and unobstructed.
- **Component Integrity:** Visually inspect the pilot assembly, wires, and tubing for any signs of wear, corrosion, or damage. Replace any damaged components immediately.

8. TROUBLESHOOTING

If you experience issues with your pilot assembly or fireplace, refer to the table below for common problems and potential solutions. If the problem persists, contact a qualified service technician.

Problem	Possible Cause	Solution
Pilot will not light	No gas supply Blocked pilot orifice Faulty igniter Loose connections	Ensure gas valve is open Clean pilot orifice (professional) Check igniter wire connection; replace igniter if faulty Check all gas and electrical connections
Pilot lights but won't stay lit	Faulty thermocouple/thermopile Weak pilot flame Loose thermocouple connection	Ensure pilot flame engulfs thermocouple; replace if faulty Clean pilot orifice; adjust gas pressure (professional) Tighten thermocouple connection at gas valve
Main burner won't ignite from pilot	Pilot flame too small or misdirected Main burner orifice blocked Gas valve issue	Adjust pilot flame (professional); clean pilot Clean main burner orifice (professional) Consult a qualified technician
Smell of gas	Gas leak	Immediately shut off gas, ventilate, and call gas company/professional. Do not operate appliance.

9. SPECIFICATIONS

Attribute	Detail
Model Number	69L18
Replacement Part Numbers	108084-03, 104497-02, 26851
Brand	palart
Fuel Type Compatibility	Propane (LPG)
Color	Black
Item Weight	191 g
Package Dimensions	18.9 x 14.91 x 4.5 cm

10. WARRANTY AND SUPPORT

For information regarding warranty coverage for the 69L18, 108084-03 Pilot Assembly, please refer to the documentation provided by the manufacturer, palart, or the retailer from whom the product was purchased. Warranty terms typically cover manufacturing defects.

For technical support, troubleshooting assistance beyond this manual, or to schedule professional service, please contact a qualified HVAC technician or the manufacturer of your specific fireplace appliance. Always provide your appliance's model and serial number when seeking support.