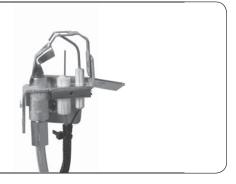


OWNER'S MANUAL

AC POWERED ELECTRONIC PILOT KIT





(Suitable for G4 and G45 series burners)

- HOT SURFACE IGNITION PILOT
- REMOTE OR MANUAL OPERATION
- AC POWER OPERATION

EPK-05 PILOT KITS

WARNING

If the information in this manual is not followed exactly, a fire or explosion may result, causing property damage, personal injury, or loss of life.

Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.

WHAT TO DO IF YOU SMELL GAS:

- Open a window.
- · Do not try to light any appliance.
- Do not touch any electrical switch; do not use any phone in the building.
- Immediately call the gas supplier from a neighbor's phone and follow the gas supplier's instructions.
- If you cannot reach the gas supplier, call the fire department.

Installation and service must be performed by an NFI Certified or other qualified professional installer, service agency, or the gas supplier.

INSTALLER & CONSUMER

These instructions <u>MUST</u> be retained with this appliance

Important: Read these instructions carefully before starting installation of the burner control system.

The Peterson Real-Fyre® burner system is to be installed only in a solid-fuel-burning fireplace with a working flue constructed of noncombustible material. Solid fuels shall not be burned in a fireplace where the unit is installed. The installation, including provisions for combustion, ventilation air, and required minimum permanent vent opening, must conform with the National Fuel Gas Code (ANSI Z223.1/NFPA 54) and applicable local building codes. In Canada, the installation must conform with the Natural Gas and Propane Storage and Handling Installation Code (CSA-B-149.1). A damper stop clamp is included to maintain the minimum permanent vent opening and to prevent full closure of the damper blade. The chimney damper must be fixed fully opened when burning the unit. The burner system is designed to burn with yellow flames; thus, adequate ventilation is absolutely necessary.



We recommend that our gas hearth products be installed and serviced by professionals who are certified in the U.S. by the National Fireplace Institute® (NFI) as NFI Gas Specialists.

Robert H. Peterson Co. • 14724 East Proctor Avenue • City of Industry, California 91746

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IMPORTANT INFORMATION

CHECK TO BE SURE THAT THE PROPER FUEL GAS IS BEING USED WITH THIS PILOT KIT.

The installation, including provisions for combustion and ventilation air, must conform with local codes, or in the absence of local codes, with the National Fuel Gas Code (ANSI Z223.1/NFPA 54).

This component and its individual shutoff valve must be disconnected from the gas-supply piping system when testing at pressures that exceed ½ psig. This is accomplished by closing the gas-supply line valve.

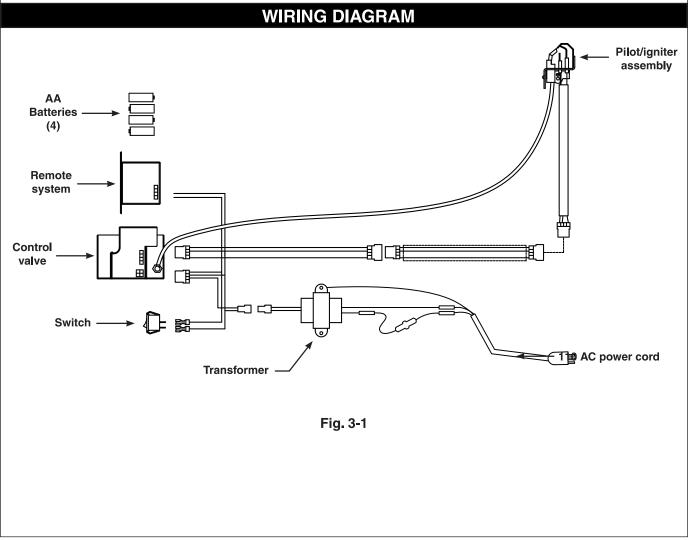
This component must be isolated from the gas-supply piping system by closing its individual manual shutoff valve during any testing of the gas-supply system at test pressures up to and including $\frac{1}{2}$ psig.

A fireplace screen must be in place when the gas burner system is in operation. Unless other provisions for combustion air are provided, the screen shall have an opening(s) for introduction of combustion air.

WHEN GLASS FIREPLACE ENCLOSURES (DOORS) ARE USED, OPERATE THE BURNER SYSTEM WITH THE GLASS DOORS FULLY OPEN; BOTH SIDES IF THE FIREPLACE IS A SEE-THROUGH TYPE.

This appliance may be installed in an aftermarket, permanently located, manufactured (mobile) home where not prohibited by local codes. Installation of appliances designed for manufactured homes or mobile homes must conform with *Manufactured Home Construction and Safety Standard, Title 24 CFR, Part 3280* in the U.S.; or with *CAN/CSA Z240 MH* in Canada; or with *ANSI/NCSBCS A225.1/NFPA 501A, Manufactured Home Installations Standard* when such as standard is not applicable.

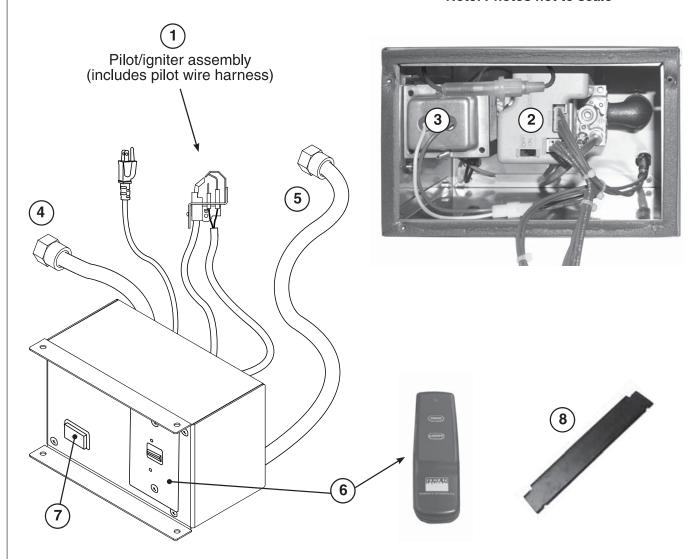
Do not use this appliance if any part has been underwater. Immediately call a qualified service technician to inspect the appliance and to replace any part of the control system and any gas control that has been underwater.



PARTS LIST

DO NOT REMOVE THE PILOT/IGNITER ASSEMBLY FROM THE VALVE OR IGNITOR PACK.





Replacement parts list									
Item	Description	Part No.	Qty.						
1.	Pilot/igniter assembly (natural/propane)	PAC-8	1						
2.	Control valve	SV-44	1						
3.	Transformer	TRN-01	1						
4.	Flex connector 24"	CK-5-24SP	1						
5.	Flex connector 36"	CK-5-36	1						
6.	Remote kit	RR-1A	1						
7.	Switch	SW-11	1						
8.	Flame diverter bracket	SH-1	1						

INSTALLATION

This safety pilot system must be installed by a qualified professional service technician. Instructions must be followed carefully when installing to ensure proper performance and full benefit from the burner system and safety pilot system.

These instructions must be used as a supplement to the instructions supplied with the Peterson burner system. Follow the burner system instructions and make adjustments as appropriate for the addition of a safety pilot system. Use gas pipe sealing compound that is resistant to all gasses (or Teflon tape) and apply to all male pipe connections. Make sure that all connections are tight.

PREPARATION

If the burner that the EPK valve system is to be added to is already installed; remove all decorative media, and set it aside to be reinstalled later (using the instructions that came with the original burner).

ORIENTATION

Prior to installation, please review and determine the orientation of this unit by referencing Fig. 5-1. Be sure the location of the valve housing is within reach of the burner (for flex connector and pilot/igniter assembly), the gas supply (for flex connector), and the 110V receptacle (for transformer adaptor).

CREATE VALVE HOUSING OPENING/FRAME

The valve housing must be secured in an opening/frame within the allowed range of the burner as mentioned in Fig. 5-1. The cutout for the valve housing is $8^{5}/8^{"}$ wide by $5^{1}/2^{"}$ high, with a depth of $7^{7}/8^{"}$ (see Fig. 5-2). Be sure to allow for wires/ tubing clearance behind the housing. The valve housing will be secured upon completion of installation. (See SECURE VALVE HOUSING section.)

INSTALL THE FLAME DIVERTER BRACKET

<u>For installation on G4/G45 burners only.</u> When properly installed onto the burner pan, the flame diverter bracket will promote quicker ignition and protect the safety control system from overheating.

Note: You must first install the flame diverter bracket before installing the pilot/igniter assembly. Use only the pilot/igniter assembled with this kit. Never substitute with an existing pilot.

- Place the flame diverter bracket over the side edge of the burner pan, near the location the safety control system pilot bracket will be attached. It should be placed approximately 2-1/2" from the rear wall of the burner pan (see Fig. 5-3).
- 2. Tap the bracket lightly with a hammer to secure it in place.

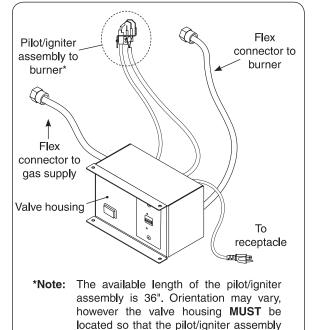


Fig. 5-1

reaches the burner.

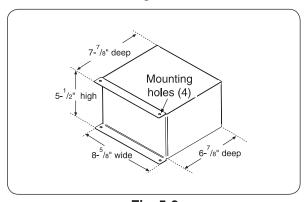
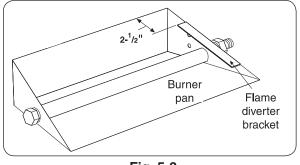


Fig. 5-2



INSTALLATION (Cont.)

INSTALL THE PILOT/IGNITER ASSEMBLY TO THE BURNER

CAUTION: Do not kink or damage the pilot supply tube, sparking, and sensor probes. Do not unscrew the gas line from the valve.

- **1.** Route the pilot/igniter assembly coming from the valve system to the burner.
- 2. Remove the two existing screws on the right side of the burner, align the pilot in place, and fasten using the provided screws. See Fig. 6-1. Check to be certain the pilot hood and probes are situated above the edge of the pan. Adjust if necessary.

WARNING: Keep the pilot/igniter assembly clear at all times. Never cover any part of the pilot/igniter assembly.



- 1. Be sure gas to the fireplace is off. Locate the 1/2" flex connector coming from the rear of the valve system that is attached to the IN adapter. Route the connector to the gas supply stub.
- 2. Remove the adapter that is loosely connected to the flex connector. Attach the adapter to the gas-supply stub using a pipe compound resistant to all gasses. Tighten securely. Then attach the open end of the flex connector to the adapter. Tighten securely (See Fig. 6-2).

CONNECT THE VALVE TO BURNER

- 1. Locate the 1/2" flex connector coming from the rear of the valve system that is attached to the **OUT** adapter. Route the connector to the burner.
- 2. Remove the adapter that is loosely connected to the flex connector. Attach the adapter to the fuel injector or air mixer on the burner using a pipe compound resistant to all gasses. Tighten securely. Then attach the open end of the flex connector to the adapter. Tighten securely (See Fig. 6-3).

LEAK TEST

Turn on the fireplace gas supply, and test at all connections for leaks using the appropriate soapy water solution. If bubbles appear, a leak is present. Turn off the gas and tighten at all connections. Repeat until no leaks are present. If a leak persists, turn off the gas supply and contact the local gas company or dealer.

NEVER USE A FLAME TO CHECK FOR LEAKS.

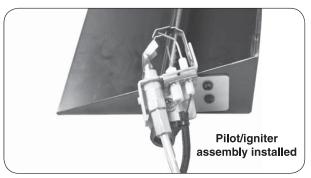


Fig. 6-1

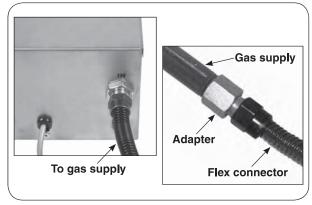


Fig. 6-2

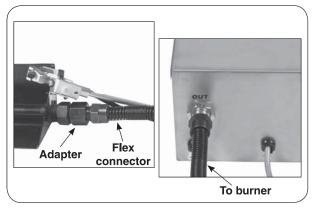


Fig. 6-3

INSTALLATION (Cont.)

CONNECT THE IGNITOR PACK TO A POWER SUPPLY

Connect the AC adaptor coming from the valve system to a 110V GFI receptacle (not included). Reference Fig. 7-1.

SECURE THE VALVE HOUSING

Align the housing into the opening/frame (previously made) and fasten the housing in using four screws (not provided).

Important: Be sure all wires/tubing are completely inside the opening and are not pinched or kinked when fastening the housing. See Fig. 7-2 & Fig. 7-3.

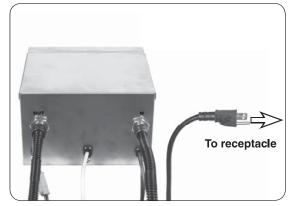


Fig. 7-1

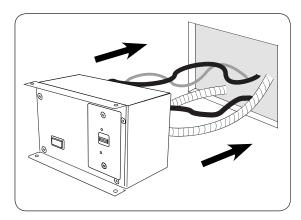


Fig. 7-2

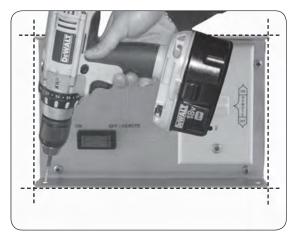


Fig. 7-3

OPERATING THE UNIT - LIGHTING AND EXTINGUISHING

FOR YOUR SAFETY, READ BEFORE LIGHTING

WARNING: IF YOU DO NOT FOLLOW THESE INSTRUCTIONS EXACTLY, A FIRE OR EXPLOSION MAY RESULT, CAUSING PROPERTY DAMAGE, PERSONAL INJURY, OR LOSS OF LIFE.

- **A. BEFORE LIGHTING**, smell all around the unit area for gas. Be sure to smell next to the floor, because some gas is heavier than air and will settle on the floor.
- B. WHAT TO DO IF YOU SMELL GAS
 - 1. Shut off the gas to the appliance.
 - 2. Extinguish any open flame.
 - **3.** If odor continues, immediately call your gas supplier or the fire department.
- C. Use only your hand to push in or move the controls. Never use tools. If the control will not push in or move by hand, DO NOT try to repair it. Call a qualified professional service technician. Force or attempted repair may result in fire or explosion.
- **D. DO NOT** use the unit if any part has been underwater. Immediately call a qualified service technician to inspect the unit and to replace any part of the control system and any gas control that has been underwater.

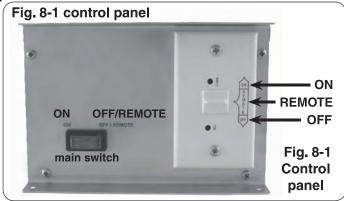
05 VALVE SERIES LIGHTING INSTRUCTIONS

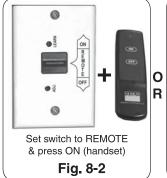
Note: For any lighting method, no gas will flow to the main burner unless the pilot is lit and stable.

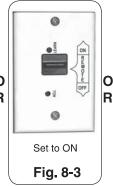
- 1. STOP! Read the safety information above.
- 2. Turn the gas valve to the ON position.
- 3. Lighting the unit using remote handset
 - **a.** Ensure the main switch is in the **OFF/REMOTE** position.
 - b. Slide the ON/REMOTE/OFF switch (O/R/O) to **REMOTE** setting (see Fig. 8-1).
 - **c.** Point the top of the remote handset toward the control panel and press the **ON** button on the handset. The valve will begin its lighting sequence and the pilot will light. When the pilot flame becomes stable (about 10 seconds), gas will flow to the main burner, and it will ignite.
- 4. Lighting the unit without using the remote
 - **a.** Slide the ON/REMOTE/OFF switch to the **ON** setting, <u>OR</u>, press the main switch to the **ON** position. The valve will begin its lighting sequence and the pilot will light. When the pilot flame becomes stable (about 10 seconds), gas will flow to the main burner, and it will ignite.

SHUTTING OFF THE UNIT

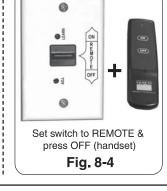
- 5. Shutting off the unit using remote handset
 - a. Slide the ON/REMOTE/OFF switch (O/R/O) to **REMOTE** position (center).
 - b. Point the top of the remote handset toward the control panel and press the OFF button (handset). Main burner and pilot will extinguish.
- 6. Shutting off the unit without using remote
 - a. With the main switch in the OFF/REMOTE position; slide the ON/REMOTE/OFF switch to the OFF setting. Main burner and pilot will extinguish.

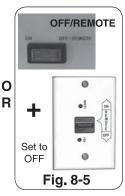












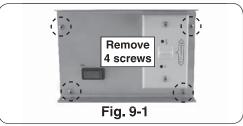
TROUBLESHOOTING

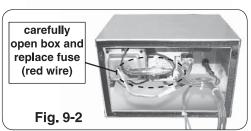
	PROBLEM	CAUSE	SOLUTION
1.	Pilot will not light	 a. Obstruction in pilot gas supply or pilot gas-supply line is kinked 	 a. Clear out obstruction. Replace pilot gas-supply line if kinked
		b. Inadequate gas supplyc. Air in line	b. Have gas pressure checked by installer or gas supplierc. Air should clear; attempt to relight
2.	Hot surface igniter not operatng	a. Loose wiresb. Bad igniterc. Valve not operating properly	a. Check all wires are securely in placeb. Replace igniterc. Replace valve
3.	Pilot lights, but main brner will not	a. Wire leads are not connected to proper valve terminals b. Improper pilot flame sensor adjustment	a. Make sure all wire leads are tight and attached to proper terminals (see wiring diagram on p. 3, Fig. 3-1) b. Adjust pilot flame sensor
4.	Burner system not burning properly	c. Defective valve a. Low flame/uneven flame	 c. Replace valve a. Check for low gas pressure; should have operating pressures of 7" w.c. for natural gas, 11" w.c. for propane at manifold b. Burner should be filled completely with sand or vermiculite
5.	Burner system shuts down during operation	 a. Glass doors closed, causing excessive heat buildup b. Pilot flame sensor not properly set to pilot location c. Heat shield not in place 	 a. Open glass doors b. See p. 6 (INSTALL THE PILOT ASSEMBLY TO THE BURNER) c. Place heat shield over valve. Be sure the solid black face of the shield is between the valve and the burner

Periodically inspect the pilot assembly and valve controls and maintain them free of obstruction or debris. If the pilot flame is not blue with possibly yellow tips and does not impinge on the electrodes or if the pilot does not stay lit, contact a qualified professional service technician to service the pilot system.

FUSE REPLACEMENT

- 1. Using a phillips screwdriver, remove the 4 screws found on the front of the valve housing (see Fig. 9-1).
- 2. Carefully open the box by pulling its cover away.
- **3.** "Push in and twist" the fuse holder (red wire), exposing the fuse. See Fig. 9-2.
- **4.** Replace the fuse accordingly (3AG 2 AMP).





WARRANTY

PETERSON VENTED DECORATIVE GAS APPLIANCE LIMITED WARRANTY

All Peterson gas logs are WARRANTED for as long as you own them (lifetime).

All Peterson burner assemblies are WARRANTED for TEN (10) YEARS.

All Peterson glass is WARRANTED for FIVE (5) YEARS.

SPK-26 controls are covered by a THREE (3) YEAR "All Parts" Warranty.

All other Peterson valves, pilots, and controls are covered by a ONE (1) YEAR Limited Warranty (excluding batteries).

A COPY OF YOUR SALES SLIP FOR PROOF OF PURCHASE IS REQUIRED

This warranty applies to the original purchaser and to single family residential use only. It commences from date of purchase, and is valid only with proof of purchase.

This warranty does not cover parts becoming defective through misuse, accidental damage, electrical damage, improper handling, lack of routine maintenance, storage, and/or installation. Product must be installed (and gas must be connected) as specified in the instructions or operator's manual, by a **qualified professional installer.** Accessories, parts, valves, remotes, etc., when used must be Peterson Co. product.

This warranty does not apply to rust, corrosion, oxidation, or discoloration, unless the affected component becomes inoperable. It does not cover labor or labor-related charges.

This warranty specifically excludes liability for **indirect, incidental,** or consequential damages. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above exclusion may not apply to you. This warranty gives you specified legal rights, and you may have other rights that may vary from state to state.

For additional information regarding this warranty, or to place a warranty claim, contact the R.H. Peterson dealer where the product was purchased.

TO REGISTER YOUR PRODUCT ONLINE GO TO: WWW.RHPETERSON.COM, AND CLICK ON PRODUCT REGISTRATION. THANK YOU FOR YOUR PURCHASE.

Quality Check			Date:			
Burner Orifices	Nat.	L.P.	Leak Test:		Model#:	
Main:			Burn Test:		Serial#:	
Other:			Gas Type: N	lat. / L.P.	Air Shutter:	
					Inspector:	

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