

IMPORTANT

READ AND UNDERSTAND THESE INSTRUCTIONS BEFORE INSTALLING

These instructions must be used as a supplement to the instructions supplied with your gas log set. Follow the Gas Log Set instructions and make appropriate adjustments for addition of safety pilot kit. Gas supply must be ½" minimum I.D. and with appropriate pressure.

General Instructions

We recommend that our products be installed and serviced by professionals who are certified in the U.S. by NFI (National Fireplace Institute) or in Canada by WETT (Wood Energy Technical Training). Installer must follow all instructions carefully to ensure proper performance and safety.

Installer: Please leave these instructions with consumer.

Consumer: Please retain these instructions for future use.

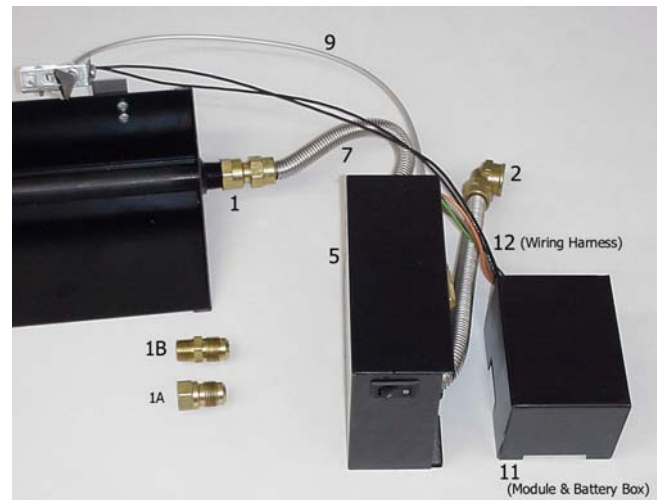
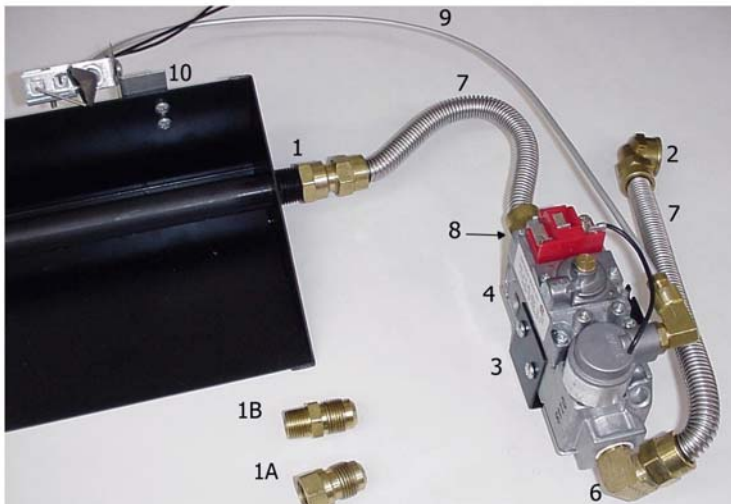


**NATIONAL
FIREPLACE
INSTITUTE**
A Certification Agency

INSTRUCTIONS FOR MVK-EI PILOT KIT

MVK-EI

For natural gas applications on sets that have internal 3/8" threads in end of burner tube such as Majco, Glo Fire, Rasmussen, Bohanna & Pearce, Sunbeam, Heatmaster, Sure Heat & Timberline, 3/8 external threads such as Peterson those sets that have external ½" threads on the end of the burner tube such as Hargrove, Delta, Golden Blount, Uniflame, Burns & Howe, Haugh's, Fireside & American Gas Log.



MVK-EI Parts List

1	423	½" x ½" Connector - To connect pan with ½" external threads to #7 Flex Line
1A	422	3/8" x ½" Connector - To connect pan with 3/8" external threads to #7 Flex Line
1B	401	3/8" x ½" Connector - To connect pan with 3/8" internal threads to #7 Flex Line
2	407	½" x ½" Elbow - To connect incoming gas pipe stub to #7 Flex Line
3	205	Valve Mounting Bracket - To attach valve to floor of fireplace
4	350	Control Valve
5	206/207/212/213	Insulated Heat Shield with On/off Switch
6	401	3/8" x ½" Elbow - To connect valve inlet to #7 Flex Line
7 (2)	229	10" Flex Line
8	411	3/8" x ½" Connector - To connect valve outlet to #7 Flex line
9	350	Pilot assembly/Flame Sensor/Electrode
11	143	Insulated Heat Shield (Module and Battery Box inside)
12	350	Wiring Harness

IMPORTANT

FOR YOUR SAFETY - WHAT TO DO IF YOU SMELL GAS.

- 1. Shut off gas to valve.**
- 2. Extinguish any flame.**
- 3. Go to a phone outside your home and call your gas supplier.**
- 4. If you can't reach your gas supplier, call the Fire Department.**

IF YOU HAVE GLASS DOORS - To prevent damage to system, keep them open while burning log set.

USE PIPE DOPE OR TAPE ON ALL MALE PIPE THREAD CONNECTIONS. DO NOT USE IT ON MALE FLARE CONNECTIONS.

INSTALLATION INSTRUCTIONS

When these instructions refer to the front, left side etc. of the valve, it is assumed the "IN" port of the valve is facing you and the control knob is on the top. See part #4 in parts illustrations. Front, Top & Left side are showing.

Note: Valve must be installed in the right front corner of the fireplace.

Step 1) Determine whether the valve and heat shield should be installed standing up or laying down. (Pictured Standing)

Note: When laying valve down be sure to leave enough room between fireplace wall and control knob on valve to allow operation of the control knob.

Step 2) Step 1 will help you determine where the mounting bracket should be installed in the fireplace floor. This bracket is used to stabilize the valve in the appropriate position. Remove valve from bracket.

FOR LAYING VALVE & HEAT SHIELD DOWN

Use two slots in right leg of bracket to attach it to the fireplace floor. Use two smallest self drilling screws in Parts Bag.

FOR STANDING THE VALVE & HEAT SHIELD UP

Use two screw holes in bottom of bracket to attach it to the fireplace floor. Use two smallest self drilling screws in Parts Bag.

IMPORTANT: The smallest self drilling screws usually work just fine but, in some material they don't hold well. If they don't, remove them and using the holes they made as pilot holes, insert larger self drilling screws from parts bag.

Step 3) Using pipe dope or tape connect female end of one of the part #2 to incoming gas pipe.

Step 4) Connect one end of #7 flex line to male flare end of part #6.

Step 5) Using pipe dope or tape, connect pipe thread end of part #8 to outlet port on back of valve.

Step 6) Connect one end of the second #7 flex line to the flare end of part #8.

Step 7) Select one of three parts to connect to burner pan. Use #1 to connect to pans with 1/2" external threads, 1B for pans with 3/8" internal threads or 1A for pans with 3/8" external threads. Using pipe dope or tape connect that fitting to burner pan tube.

Step 8) Using two Self drilling screws from parts bag attach part #9 to part #10. Position pilot assembly (part 9) angled slightly up as shown in fig 3. Position pilot burner mounting bracket (part 10) to back of pan and attach with 2 nuts and bolts from parts bag

Step 9) Valve Assembly- connect this assembly to part #3 valve mounting bracket using same holes the screws were in when you removed valve from bracket.

Step 10) Connect other end of #7 flex line that is connected to part #6 (see step 4) to flare end of part 2 that is mounted on incoming gas pipe

Step 11) Connect other end of second #7 flex line coming from part #8 in outlet port of valve (see step #7) to flare end of fitting mounted on burner pan tube.

Step 12) Very carefully bend aluminum pilot burner tube (Part 9) around to front of valve. Screw fitting of aluminum tube into pilot gas port. Do not over tighten. Finger tight plus 1/4 turn is enough. As shown in fig 4.

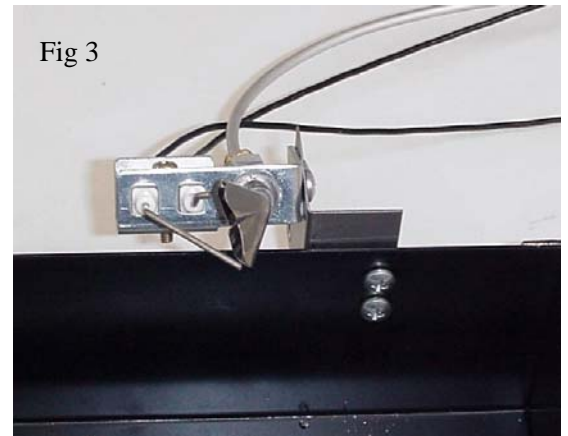


Fig 3

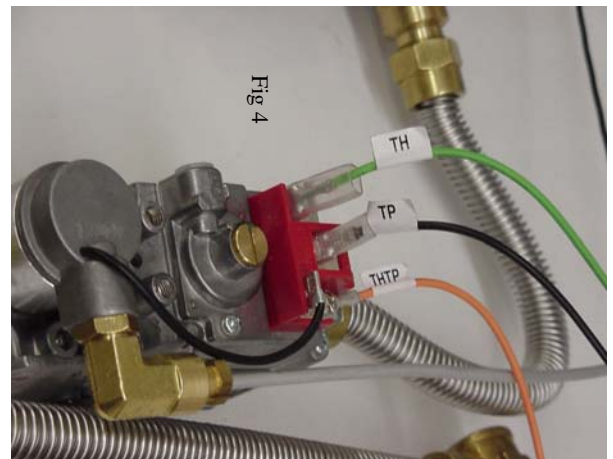
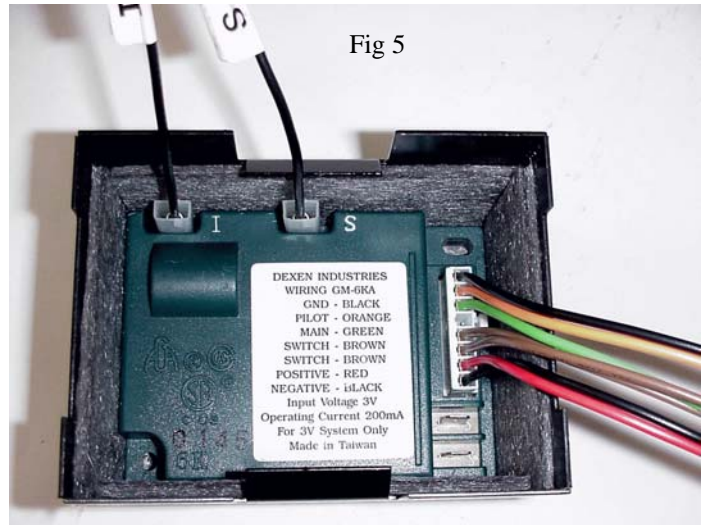
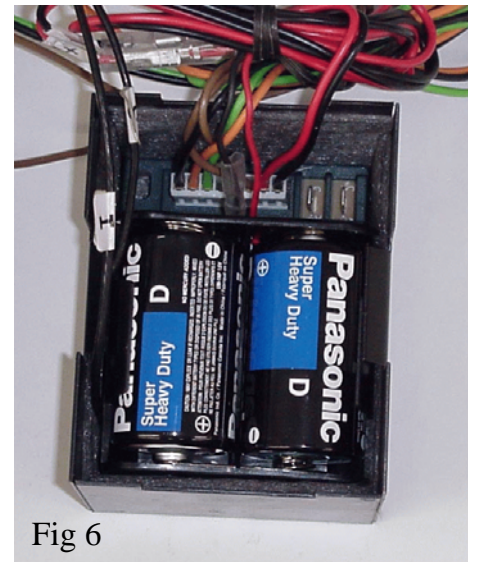


Fig 4

- Step 13) Remove battery box from part 11
Bring wire leads marked "I" and "S" from pilot assembly of part #9 around to ports on Module marked "I" and "S" as shown in fig 5.
- Step 14) Bring GREEN wire lead marked "TH" to TH slot on valve
Bring ORANGE wire lead marked "THTP" to THTP slot on valve
Bring BLACK wire lead marked "TP" to TP slot on valve
- Step 15) Attach the 2 BROWN wires marked SWI to male tabs on back of on/off switch mounted into part 5
Insert the 2 D batteries into the battery pack and reinstall pack into heat shield (Part 11) as shown in fig 6.
Tuck excess battery wire into heat shield (part 11)



- Step 16) Turn gas on to valve. Light pilot by turning on On/Off switch on part 5
Pilot will automatically light and after flame sensor senses flame main burner will light.
- Step 17) **NOW IS THE TIME TO TEST FOR LEAKS. USE SOAPY WATER ON ALL CONNECTIONS. BUBBLES WILL SHOW LEAKS. SHUT GAS OFF AND REPAIR LEAKS BEFORE LEAVING YOUR SET BURNING.**
- Step 18) Turn gas back on to valve.
- Step 19) For wiring instructions for HI LIMIT switch, On/Off switch, remote control or wall switch see Page 4.
IMPORTANT: Remote Control Receiver: Should be away from module and spark cable to prevent accidental shut off from high voltage noise.
- Step 20) Slide part #5 heat shield over valve with right leg of mounting bracket sliding into notch on right side of heat shield.
Note: First time start ups or re-connections - be sure all air has been bled from all supply lines so gas is getting to pilot. Pilot will not light until all air is bled from system. This may take several minutes.
- Step 21) Finish the burner pan, grate and logs per the instructions that came with your log set.



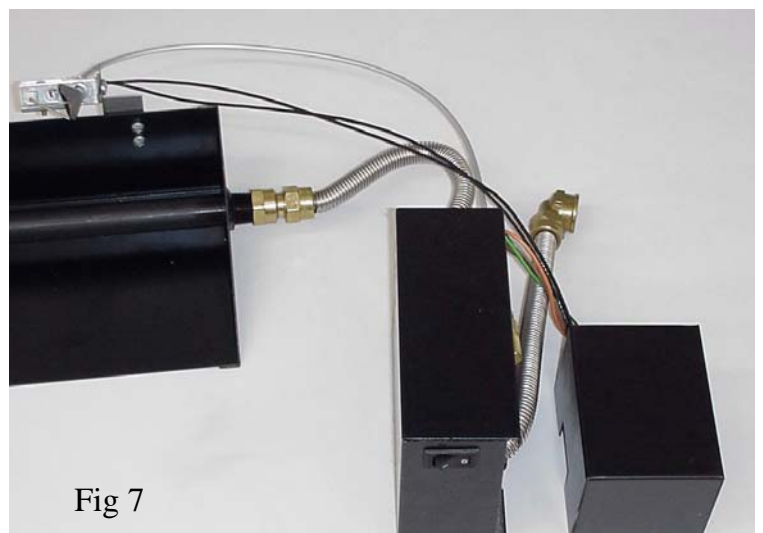
ATTENTION
If during operation, you experience shut down of the main burner it is probably due to overheating the valve. If you are having this problem, make sure valve assembly is mounted as far as possible away from the flame.

IMPORTANT
The module/battery box is heat sensitive and positioning is critical

Positioning of the module/battery box should be as far forward and away from the flame. If possible place module/battery box on same side of fireplace as valve assembly as shown in Fig 7

If placing the module/battery box on the opposite side of the valve in the fireplace, use volcanic cinders to hide wire and help insulate from heat.

Never run wire under burner pan. This will cause a short and render the unit inoperable.



Electronic Ignition Valve Kit Trouble Shooting

<u>Symptoms</u>	<u>Possible Cause</u>	<u>Solution</u>
Pilot won't light.	<ol style="list-style-type: none"> 1) Gas line not bled to let gas reach pilot. 2) Gas not reaching pilot because valve is installed backwards. 3) Pilot gas supply tube burned or crimped. 4) Soot or rust covering outlet hole on pilot orifice. 5) Batteries dead and won't create spark on Pilot hood 6) "SWI" wires not connected to switch 	<ol style="list-style-type: none"> 1) Bleed lines. 2) Re-install Valve. 3) Replace pilot burner assembly. Route away from main burner flame. 4) Clean thoroughly and open hole with pin. 5) Replace batteries 6) Ensure wires are firmly seated onto male tabs
Unit sparks, then turns off immediately.	<ol style="list-style-type: none"> 1) Remote receiver too close to module And / or spark cable- noise from HV. 	<ol style="list-style-type: none"> 1) Move receiver to opposite side of fireplace from module or place outside fireplace.
Flames come out of holes on air/mixer orifice (LP systems)	<ol style="list-style-type: none"> 1) Air mixer/orifice installed incorrectly. 	<ol style="list-style-type: none"> 1) Install air mixer/orifice of holes so long end and air holes face toward valve (away from main burner).
Whistling Sound	<ol style="list-style-type: none"> 1) Seldom caused by pilot. 2) Possibly a too small flex connector. 	<ol style="list-style-type: none"> 1) Check log set burner, orifice (if used) and amount of material covering burner. 2) Use minimum ½" OD connector.
Soot on Logs	<ol style="list-style-type: none"> 1) Rarely caused by pilot. 	<ol style="list-style-type: none"> 1) Check for flame impingement on logs. 2) Adjust air mixer if using LP.

