HARGROVE GAS LOGS

MAXITROL VALVE (MHE-PO-RC-HB, MHE-PO-BC-HB, MHE-PO-WS-HB)

PILOT CONTROL SYSTEM INSTALLATION INSTRUCTIONS

Hargrove HEARTH PRODUCTS

NATIONAL FIREPLACE INSTITUTE NFI CERTIFIED

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.

FOR YOUR SAFTEY

DO NOT STORE OR USE GASOLINE OR OTHER FLAMMABLE LIQUIDS OR FLAMMABLE VAPORS IN THE VICINITY OF THIS OR ANY OTHER APPLIANCE.

FLAMMABLE VAPORS FROM OTHER AREAS OF YOUR HOUSE TO THIS APPLIANCE.

CAUTIONS

1. This valve should be installed only by a qualified service technician trained in gas safety equipment.
2. Turn off the gas supply before installing the valve.
3. All piping must meet applicable local codes and ordinances and the National Fuel Gas Code (**ANS Z223.1/NFPA NO.54**)
4. All wiring must meet the applicable electrical codes and ordinances.
5. Assure that the complete system is operating according to the manufacturer's instructions after installing the Parts Only Kit.
6. Prior to installation, verify conformance with the log unit's installation instructions.
7. Assure that all the piping is free of any foreign matter.

This gas pilot safety valve provides 100% shut-off of both the pilot and main burner gas supplies in the event of a pilot flame failure. This valve is equipped with a gas control knob for lighting the pilot and manual adjustment of the flame height as well as a remote system to adjust flame height.

If the pilot flame goes out during normal operation, or if the gas flow to the pilot flame is insufficient and will not provide enough heat to the thermocouple output, the safety valve will close, stopping the flow of gas to the pilot and burner. This valve is designed for Natural or Propane gas with a maximum flow of 1/2" PSI.

FOR YOUR SAFETY WHAT TO DO IF YOU SMELL GAS

1. **Open windows.**
2. **Extinguish all open flames.**
3. **Do not try to light any appliance.**
4. **Do not touch any electrical switch; do not use the phone in your building.**
5. **Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.**
6. **If you cannot reach your gas supplier, call the fire department.**

INSTALLATION INSTRUCTIONS

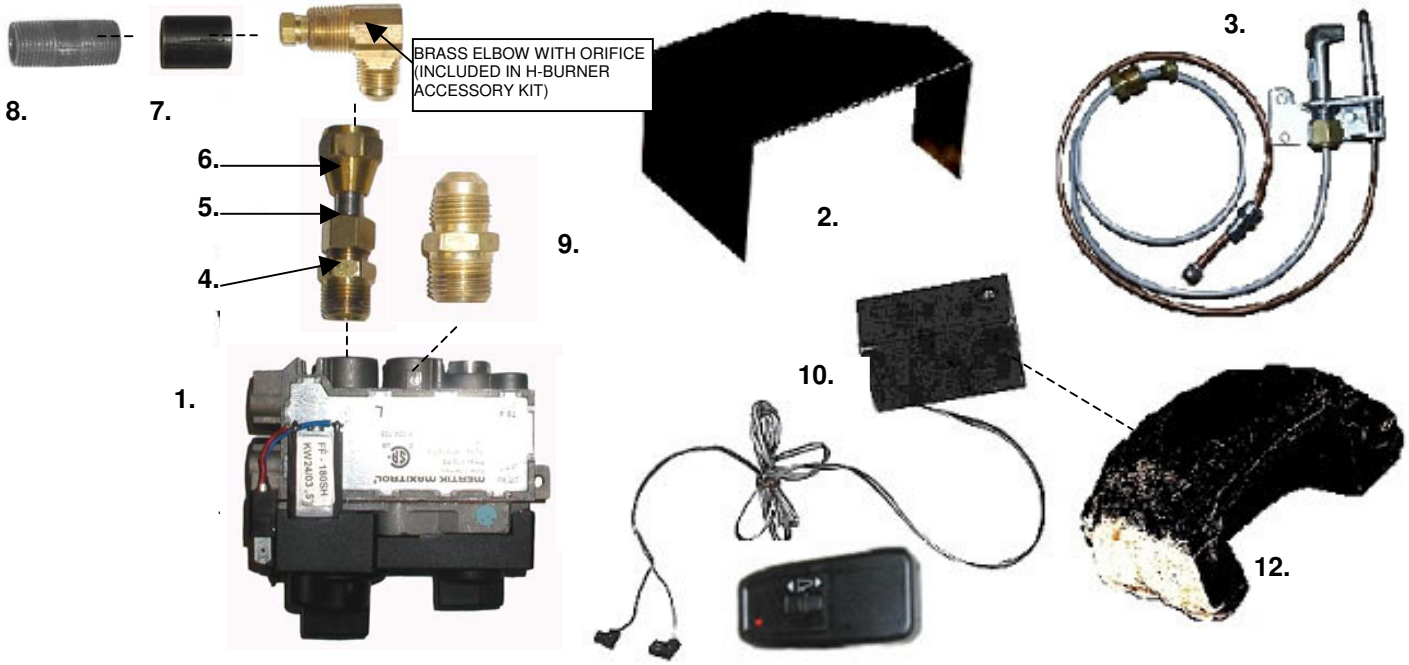
WARNING

To avoid a potential fire hazard, do not disassemble or attempt to repair the safety gas valve. Disassembly, reassembly or internal adjustment could cause the valve to malfunction, resulting in property damage, personal injury, or death. If the control valve does not operate properly following the installation or service, replace the unit.

INSTALLING A HARGROVE SAFETY GAS VALVE IN A LOCATION OTHER THAN SPECIFIED IN THIS MANUAL WILL VOID THE WARRANTY EXCEPT WHEN THE SAFETY GAS VALVE IS INSTALLED OUTSIDE THE FIREBOX IN A SAFE AND PROPER INSTALLATION AND ACCESS IS PROVIDED FOR MAINTENANCE AND REPAIR OF THE SYSTEM. A QUALIFIED INSTALLER MUST MAKE INSTALLATION AND ADJUSTMENTS.

PARTS LIST

	PART NUMBER	PART DESCRIPTION
1.	MHE-C	MAXITROL GV34 SAFETY GAS VALVE
2.	MHE-HS	GAS VALVE HEAT SHIELD
3.	RSTPB-18	THERMOCOUPLE/PILOT ASSEMBLY
4.	68-6	3/8 COMPRESSION FITTING
5.	SC-1	1" STAINLESS CONNECTOR
6.	41S-6	3/8 BRASS FLARE NUT
7.	CO-6	3/8 PIPE COUPLER
8.	N-6X1.5	3/8 X 1.5 BLACK PIPE
9.	48-6	BRASS UNION 3/8" MIPx3/8"FL
10.	MAXG30-ZRP1	MAXITROL GV34 REMOTE CONTROL
11.	SW-HSGV34 – not pictured	SUPERWOOL INSULATION/ MHE-HS
12.	RC-WG	REMOTE CONTROL COVER
13.	(2) #8 X 1/2" SCREWS	PILOT SCREWS (NOT SHOWN)



PARTS LIST W/ BATTERY POWERED BARK CHIP SWITCH (MHE-PO-BC)

	PART NUMBER	PART DESCRIPTION
1.	MHE-C	1. MAXITROL GV34 SAFETY GAS VALVE
2.	MHE-HS	2. GAS VALVE HEAT SHIELD
3.	RSTPB-18	3. THERMOCOUPLE/PILOT ASSEMBLY
4.	SC-1	4. 1" STAINLESS STEEL CONNECTOR
5.	68-6	5. 3/8 COMPRESSION FITTING
6.	409-6-6-45	6. BRASS UNION 3/8" MIP X 3/8"FL (45)
7.	41S-6	7. 3/8 BRASS FLARE NUT
8.	CO-6	8. 3/8 PIPE COUPLER
9.	N-6X1.5	9. 3/8 X 1.5 BLACK PIPE
10.	BPBCS (See Switching Device Connection for part photo)	10. BARK CHIP SWITCH
11.	SW-HSGV34	11. SUPERWOOL INSULATION/ MHE-HS
12.	9 VOLT BATTERY	12. PICTURED ON PAGE4

PARTS LIST W/ BATTERY POWERED WALL SWITCH (MHE-PO-WS)

	PART NUMBER	PART DESCRIPTION
1.	MHE-C	1. MAXITROL GV34 SAFETY GAS VALVE
2.	MHE-HS	2. GAS VALVE HEAT SHIELD
3.	RSTPB-18	3. THERMOCOUPLE/PILOT ASSEMBLY
4.	SC-1	4. 1" STAINLESS STEEL CONNECTOR
5.	68-6	5. 3/8 COMPRESSION FITTING
6.	409-6-6-45	6. BRASS UNION 3/8" MIP X 3/8"FL (45)
7.	41S-6	7. 3/8 BRASS FLARE NUT
8.	CO-6	8. 3/8 PIPE COUPLER
9.	N-6X1.5	9. 3/8 X 1.5 BLACK PIPE 8"FL (45)
10.	WGWS (See Switching Device Connection for part photo)	10. WALL SWITCH
11.	SW-HSGV34	11. SUPERWOOL INSULATION/ MHE-HS
12.	(4) AA-SIZE BATTERIES	12. PICTURED ON PAGE 4

INSTALLATION INSTRUCTIONS

This gas valve should be installed according to the following instructions. Check for leaks after completing the installation with a soapy water solution.

INLET GAS SUPPLY CONNECTION

1. Be sure the main gas supply is shut off before starting the installation. It should be located so the manual shut-off valve is easily accessible.
2. The direction of gas flow is indicated by the directional arrow on the inlet and outlet boss.
3. You should use new pipe. If you use old pipe, be sure it is clean and free of rust, scale, burrs, chips and old pipe joint compound.
4. Apply pipe joint compound that is approved for all gases, only to the male threads of the pipe joints. DO NOT apply compound to the first two threads. Do not thread pipe too far.

NOTE: Applying pipe joint compound to pipe threads will prevent chips from passing into the internal valve parts, since the pipe joint compound will connect and retain chips that are formed as the pipe is threaded into the body.

5. If a vise or open-ended wrench is used to hold the control while installing the pipe, do not tighten excessively, as this may damage the control.

MHE-C INSTALLATION

1. Attach and tighten the 409-6-6-45 to inlet port onthe MHE-C.
2. Attach and tighten the brass 68-6 assembly (68-6, SC-1, and 41S-6) to the inlet port on the MHE-C.
3. Attach the N-6X1.5, CO-6 and Brass Elbow With Orifice to the right end of the burner pan with the brass elbow facing toward the front of the H-Burner pan.
4. Attach the 41S-6 portion of the 68-6 assembly to the Brass Elbow With Orifice. The valve should now be attached to the burner pan. Make sure all fittings are tight and secure.
5. Use the #8 screws (not illustrated) to attach the RSTPB-18 pilot assembly to the back side of the burner pan in the pre-drilled holes. Attach the pilot so that the pilot burner is above the back wall of the Ember Burner pan. **See Figure 1**

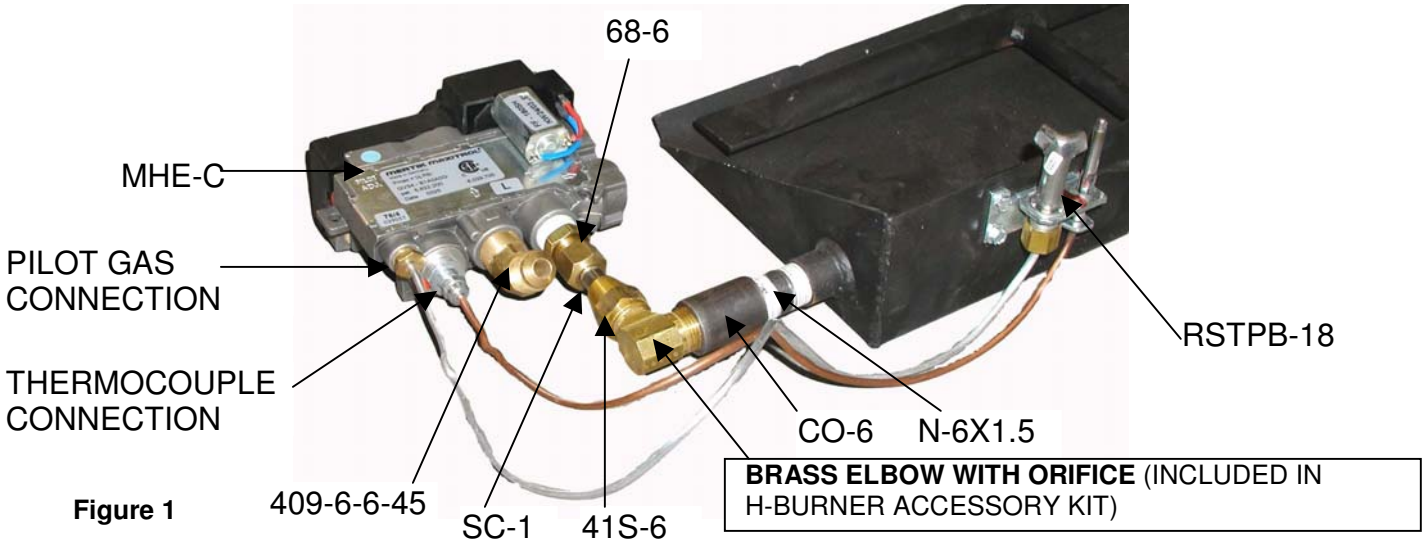
PILOT GAS CONNECTION

Install the silver tubing from the RSTPB-18 into the pilot gas tap, turning until finger-tight. Tighten an additional 1 1/2turns. **See Figure 1**

THERMOCOUPLE CONNECTION

The thermocouple connector should be clean for good electrical contact. Run the thermocouple nut into the thermocouple connection as far as possible by hand. Turn the fitting an additional 1/4 turn. **See Figure 1**

BACK VIEW OF H-BURNER



BRASS ELBOW WITH ORIFICE (INCLUDED IN H-BURNER ACCESSORY KIT)

Figure 1

SWITCHING DEVICE CONNECTION

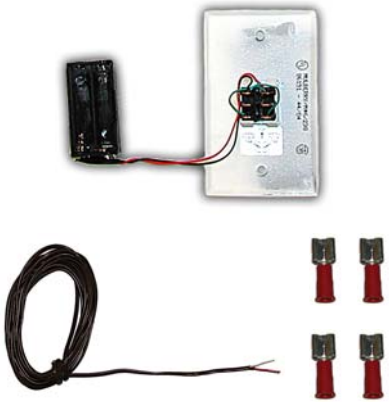
Bark Chip Switch Includes One 9 Volt Battery

Bark Chip -Install battery and spade terminals. Connect to valve switch terminals (see Fig 2). Toggle switch is ready for operation.

Remote Control Includes Four AA Batteries & One 9 Volt Battery

Remote Control -Install batteries in receiver and transmitter. Connect receiver to valve switch terminals (see Fig 2). Remote is ready for operation.

Wall Switch Includes Four AA Batteries



Wall Switch -Install batteries and spade terminals. Connect to middle terminals on switch and valve switch terminals (see Fig 2). Wall switch is ready for operation.

OPERATION INSTRUCTIONS

FOR YOUR SAFETY

WARNING: If you do not follow these instructions exactly, a fire or explosion may occur resulting in property damage, personal injury, or loss of life.

THIS APPLIANCE HAS A PILOT, WHICH MUST BE LIT BY HAND. WHEN LIGHTING THE PILOT, FOLLOW THESE INSTRUCTIONS EXACTLY. BEFORE LIGHTING, SMELL ALL AROUND THE APPLIANCE AREA FOR GAS. BE SURE TO SMELL NEXT TO THE FLOOR BECAUSE SOME GASES ARE HEAVIER THAN AIR AND WILL SETTLE ON THE FLOOR.

BASIC OPERATION

1. Knob-A is for manual pilot, on-off function. Turn knob counterclockwise to the "PILOT" position and depress knob to allow flow of the pilot gas to the pilot burner. **See Figure 2**
   ***USE ONLY YOUR HAND TO PUSH OR PUSH IN KNOB!** Never use tools. If the knob will not push in or turn by hand, don't try to repair it. Call a qualified service technician. Forced or attempted repair may result in a fire or explosion.

2. **THIS APPLIANCE USES AN INTERLOCK SAFETY DEVICE, WHICH WILL NOT ALLOW THE RELEASE OF GAS UNTIL THE THERMOCOUPLE HAS SUFFICIENTLY COOLED. THIS MAY TAKE UP TO FIVE MINUTES. ATTEMPTING TO RELIGHT THE PILOT PRIOR TO THE RELEASE OF THE INTERLOCK WILL FAIL.**
   Light the pilot and continue to depress the knob for approximately thirty seconds. Release the knob and affirm that the pilot flame is still present. If the pilot flame has extinguished, attempt (1.) again and depress knob for one minute. If pilot flame has extinguished, assure than the thermocouple connection is tight. If the pilot flame has extinguished, call your service technician/dealer.

3. Upon lighting the pilot, continue to turn the knob counterclockwise to the "ON" position.

ADJUSTING FLAME HEIGHT

1. Knob-B is for the flame height adjustment. This control uses a servomotor to allow adjustment of flame by the remote control system. However, the flame height may be adjusted by hand. Turn the Knob-B counterclockwise to increase flame height and clockwise to decrease/shut-off the flame. **See Figure 2**

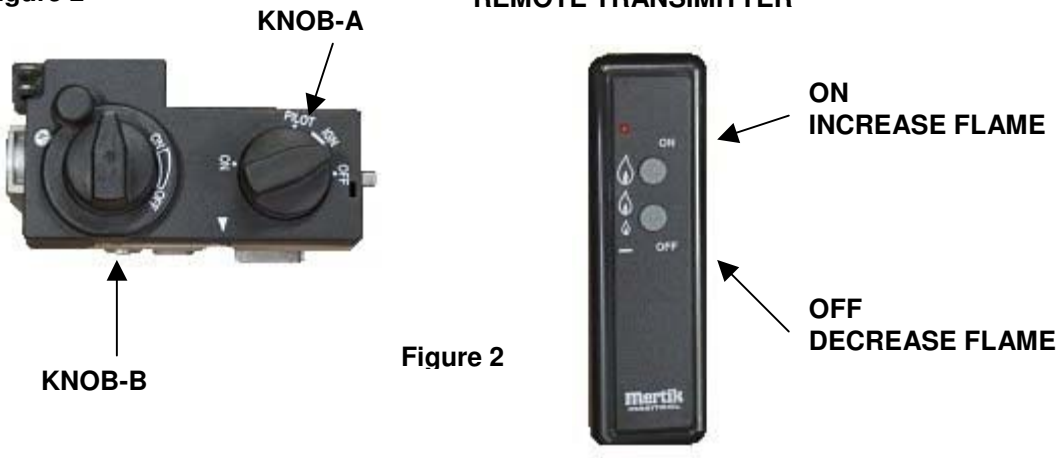


Figure 2

SHUT-OFF PROCEDURE

1. Turn Knob-A (**Figure 2**) right until reaching stop. Press down slightly and continue turning right from "PILOT" position to the "OFF" position.
   *Very high-pressure gas surges may result in internal damage or leaks. If you suspect your control has been exposed to more than 1 1/2 times its maximum, have the unit checked by an expert.