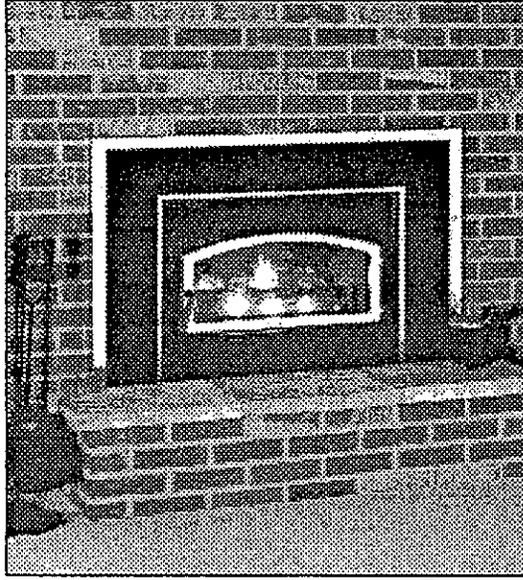


Model Clay-40GI Installation / Operator's Manual



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

- * Do not try to light any appliance.
- * Do not touch any electrical switch; do not use any phone in your building.
- * Immediately call your gas supplier from a neighbors phone. Follow the gas suppliers instructions.
- * If you cannot reach your gas supplier call the fire department.

Installation and service must be performed by a qualified installer, service agency or the gas supplier.

CAUTION: Read all instructions before use. Keep this manual for future reference. All appliances should be installed by a professional gas appliance service person.

CAUTION:

READ RULES CAREFULLY FOR SAFE OPERATION AND INSTRUCTION.

THIS MANUAL WILL HELP YOU TO OBTAIN EFFICIENT, DEPENDABLE SERVICE FROM YOUR HEATER, AND ENABLE YOU TO ORDER REPAIR PARTS CORRECTLY. KEEP IN A SAFE PLACE FOR FUTURE REFERENCE.



WARNING

Refer to this manual for correct installation and operation procedures. For assistance or additional information consult a professional gas appliance service person.

DO NOT install or use this heater in bathrooms, bedrooms/ sleeping quarters, mobile homes, trailers, recreational vehicles, or as a fireplace insert.



227 Industrial Park Road
P.O. Box 151
South Pittsburg, TN 37380
(615) 837-2100



#85130A 2/95

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INTRODUCTION

WARNING

Improper installation, adjustment, alteration, service or maintenance may void warranty and cause injury or property damage. Refer to this manual.

For assistance or additional information, consult a qualified installer, service agency or the gas supplier.

Installation must conform with local codes or with the national fuel gas code ANSI Z223.1-988 or with CANI-B149 installation code.

IMPORTANT INFORMATION

For safe installation and operation of your gas fireplace, please note the following:

1. This appliance generates high temperatures and should be located out of traffic areas and away from furniture and draperies.
2. Children and adults should be alerted to the hazards of the high surface temperatures of this appliance and should stay away to avoid burns or ignition of clothing.
3. Children should be carefully supervised when they are in the same room as your fireplace appliance.
4. Under no circumstances should this appliance be modified. Parts that have to be removed for servicing should be replaced prior to operating this appliance.
5. Installation and any repairs to this appliance should be done by a qualified service person. A professional service person should be called to inspect this appliance annually. Make it a practice to have all of your gas appliances checked annually.
6. Control compartments, burners and air passages in this appliance should be kept clean and free of dust and lint. Make sure that the gas valve and pilot light are turned off before you attempt to clean this unit.
7. The venting system (chimney) of this appliance should be inspected at least once a year and if needed, your venting system should be cleaned.
8. Keep the area around your appliance clear of combustible and liquids. This appliance should not be used as a drying rack for clothings, nor should Christmas stockings or decoration be hung in the area of it.
9. This appliance requires adequate ventilation for safe operation. An Outside Air Kit is available from your local dealer if desired or required by local code.

10. Do not operate this appliance without glass in place. Replace damaged glass only with original equipment glass or equivalent. (Consult your Clayton dealer).
11. Under no circumstances should any solid fuels (wood, paper, cardboard, coal) be used in this appliance.

THIS APPLIANCE IS FOR USE WITH NATURAL OR PROPANE GAS ONLY AS INDICATED ON RATING PLATE.

NOTE: BTU ratings shown on the rating plate area for elevations up to 2,000 feet, for elevations up to 2,000 feet. For elevations above 2,000 feet, rating should be reduced at the rate of four (4) percent for each 1,000 feet above sea level.

GAS SPECIFICATIONS			
MODEL	FUEL	GAS CONTROL	MAXIMUM INPUT
G40NG	Natural	Remote On/Off	26,000 BTU/HR
G40PG	Propane	Remote On/Off	23,500 BTU/HR
Manifold Pressure - Natural Gas 3.5" W.C.P. Propane Gas 10.5" W.C.P.			
Gas Inlet - 1/2" NPT			
Supply	Minimum Pressure	Maximum Pressure	
Natural Gas	4.5" W.C.P.	10.5" W.C.P.	
Propane "	10.0" W.C.P.	14.0" W.C.P.	

L.P. AND NATURAL ORIFICE			
0-2,000 feet	-	Natural	#41
		L.P.	#54
2,000-4,500 feet	-	Natural	#42
		L.P.	#55
4,500-6,000 feet	-	Natural	#43
		L.P.	#56

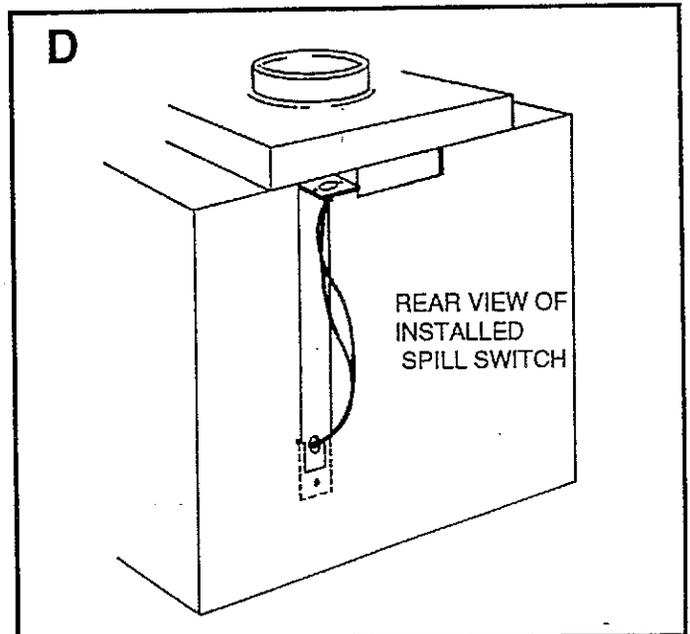
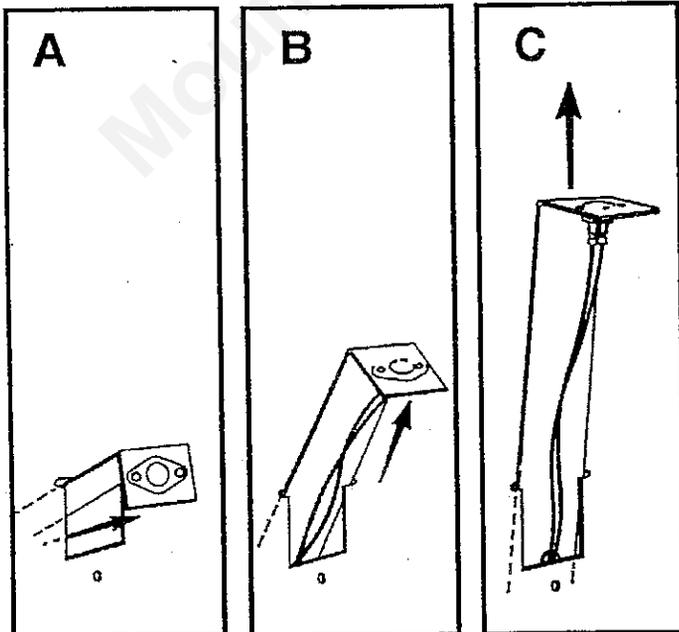
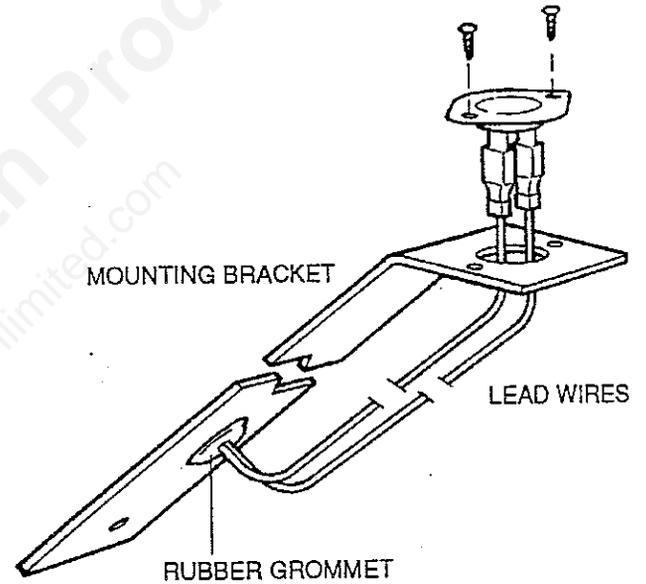
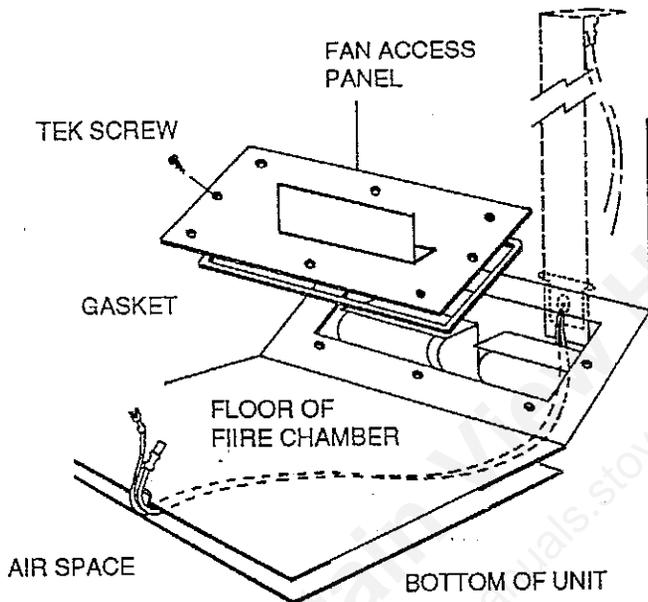
Spill Switch Replacement - (Factory Installed)

The spill switch is a temperature sensitive safety device that automatically shuts off the gas burner if heat of approximately 250 degrees or more is detected in the area of the flue outlet. Excessive temperature is usually the result of an improper flue connection. Once the temperature has dropped the burner can be reignited, but the spill switch will not allow continued operation until the source of the problem is corrected.

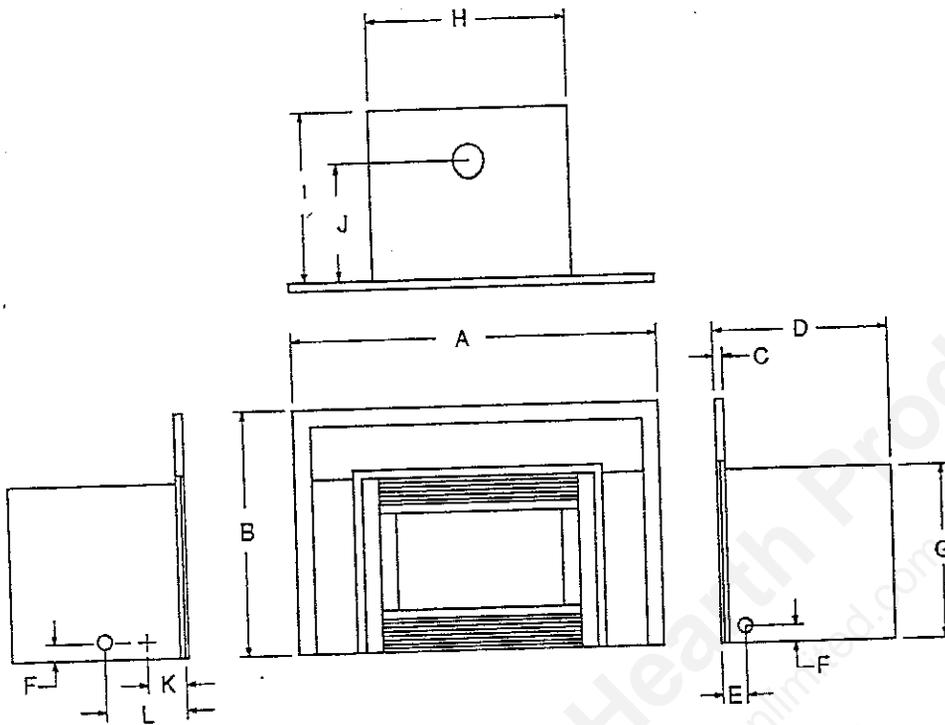
1. Remove fan access panel and gasket at the rear of the fire chamber.
2. Working through the fan compartment, slide the switch end of the spill switch mounting bracket through the square opening in the outer back of the unit.

3. Slide the bracket upward until the screw hole at the bottom of the bracket lines up with the hole in the back of the unit.
4. Secure bracket from inside of fan compartment with a sheet metal screw.
5. Feed spill switch lead wires under floor of fire chamber and bring out at front of unit.
6. Replace gasket and fan access panel.

(See wiring schematic on page 6 for connection of the spill switch)



DIMENSIONS

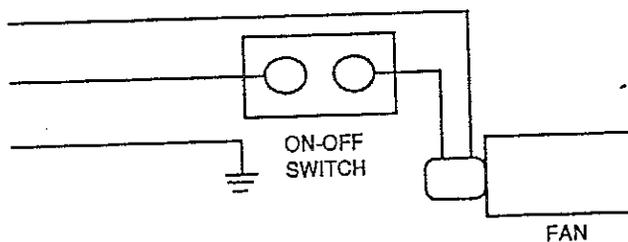


- (A) 42"-48"
- (B) 29-1/2"-32"
- (C) 1"
- (D) 16-3/8"
- (E) 3-9/16"
- (F) 2-3/4"
- (G) 20-1/2"
- (H) 23-5/8"
- (I) 15-3/8"
- (J) 10-5/8"
- (K) 3-1/8"
- (L) 7-1/2"

INSTALLATION OF BLOWER (Factory Installed)

The Clay-40G is equipped with a blower which has a speed control and a three-wire grounded cord. To avoid possible shock, the grounding plug must not be removed. This appliance, when installed, must be electrically grounded in accordance with local code and national electric code, ANSI/SFPA 70 & CSA C22.1.

FAN WIRING DIAGRAM



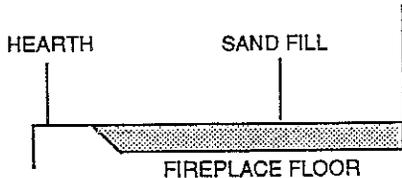
CAUTION:

Do not use this heater if any part has been under water. Immediately call a qualified service technician to inspect the heater and replace any part of the control system and any gas control which has been under water.

GAS FIREPLACE INSERT

FIREPLACE PREPARATION

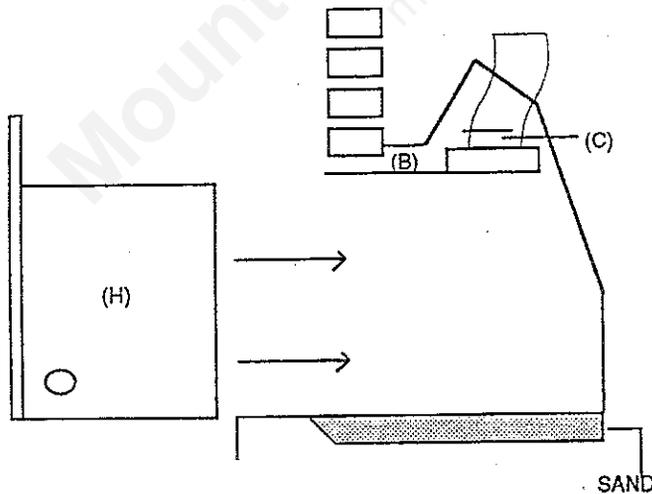
1. If floor of fireplace is lower than the hearth, fill in with sand and level off, if desired.



2. Slide Clayton firebox into fireplace opening and mark position of gas and electrical knockouts for installation of gas line and wiring. Also mark height and position of flue connector for proper installation of chimney liner.

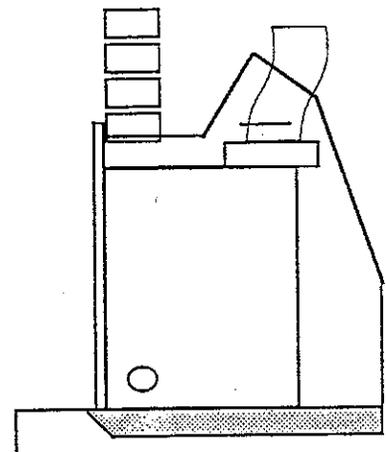
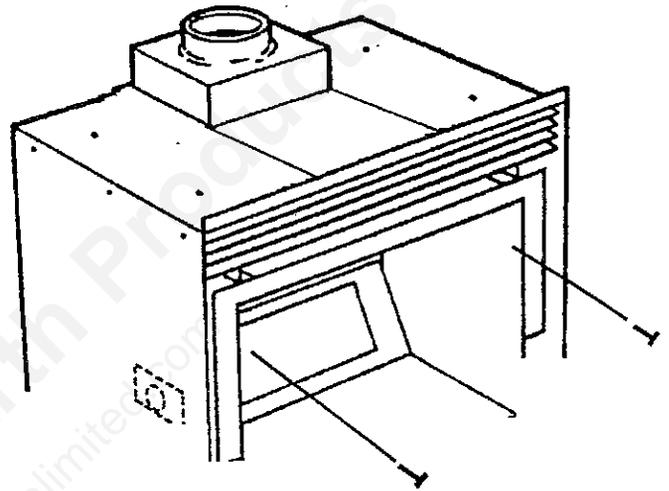
3. Remove Clayton firebox from fireplace and install an approved 4" diameter flue liner. Liner must include start section and flexible section. This appliance must not be connected to a chimney flue serving a separate solid fuel burning appliance. Consult your dealer or heating contractor. **WARNING: Operation of this heater when not connected to a properly installed and maintained venting system or tampering with the vent safety shutoff system can result in carbon monoxide (CO) poisoning and possible death.**

4. Install rough gas and electrical lines. (Should be done by qualified personnel only).

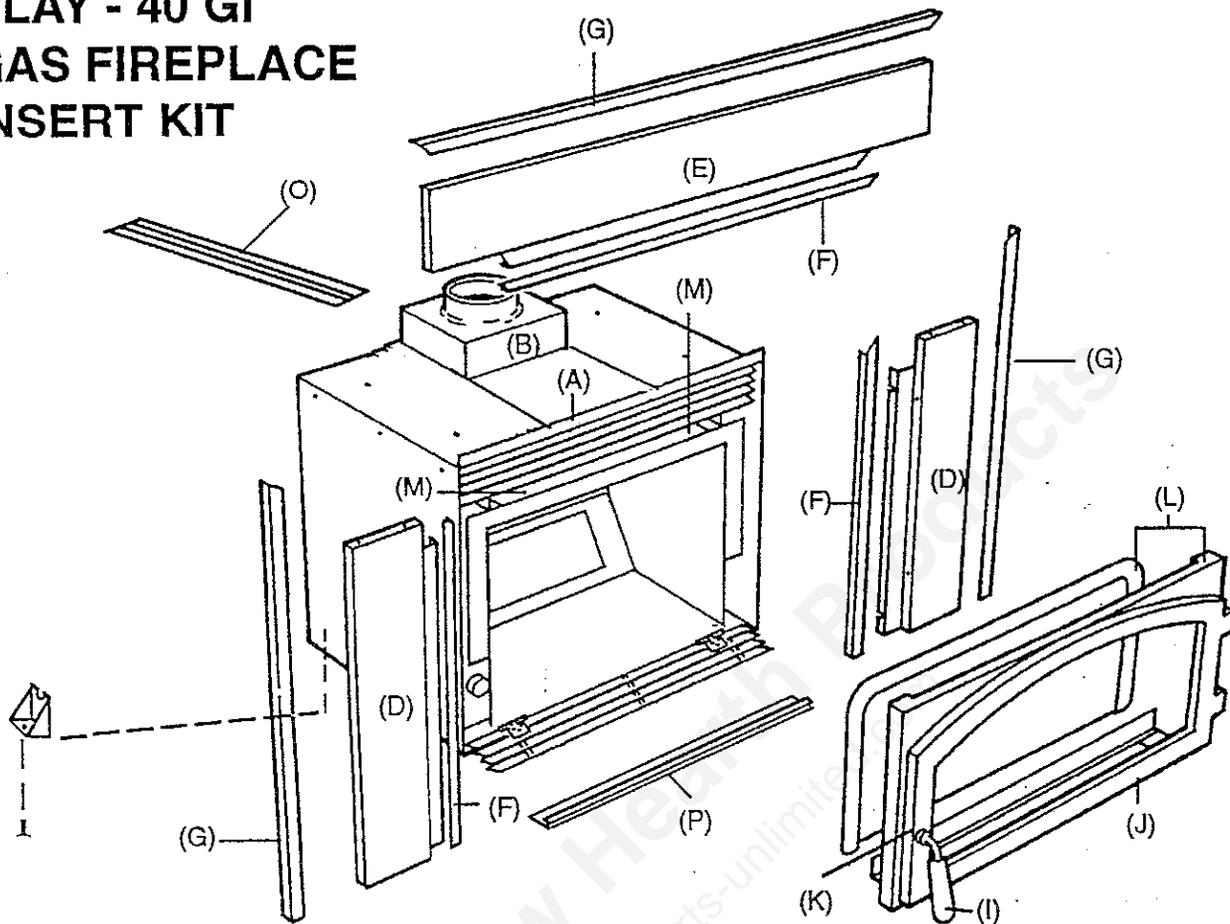


REMOVAL OF TOP GRILL

- Take out two bottom screws and pull grill forward and down.



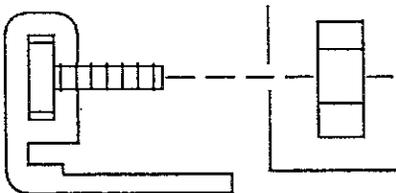
CLAY - 40 GI GAS FIREPLACE INSERT KIT



INSERT KIT ASSEMBLY

1. Remove door and top grill (removing 2 screws (M)) to proceed with assembly.
2. Attach flue plate (B) to starter section (C) of flue liner as shown on page 4.
3. Slide firebox assembly (H) part way into the fireplace opening and engage flue plate with slide tracks on top of firebox as shown on page 4.
4. Fill space between firebox and fireplace walls with fiberglass insulation, if desired.
5. Continue sliding unit into opening until flue plate can be drawn completely forward. Secure front of flue plate with two #8 x 1/2 tek screws.
6. Connect sides (D) and top (E) face panels with four 24 x 1/2 screws and nuts provided. Attach face panel assembly to unit with four 10-24 nuts and washers, re-attach top grill to unit.
7. Attach inner brass trim (F) to face panels. Attach and tighten corner angles then attach other brass trim with special bolts and 10-24 nuts to face panels.
8. Place additional strips of fiberglass insulation around back of face panels to prevent air leakage between the room and the chimney. Push unit tightly against fireplace surround.
9. Make gas and electrical connections.
10. Screw wooden handle onto threaded metal handle. Insert handle assembly (I) into hole on door frame (J), turn to seven o'clock position, and secure with 3/32 set screw (K).
11. Re-hang door assembly.
12. Push brass trim piece (P) into flush position with face of unit.

Slide bolt heads into channel on trim, align with holes in face panel edges and secure with nuts.



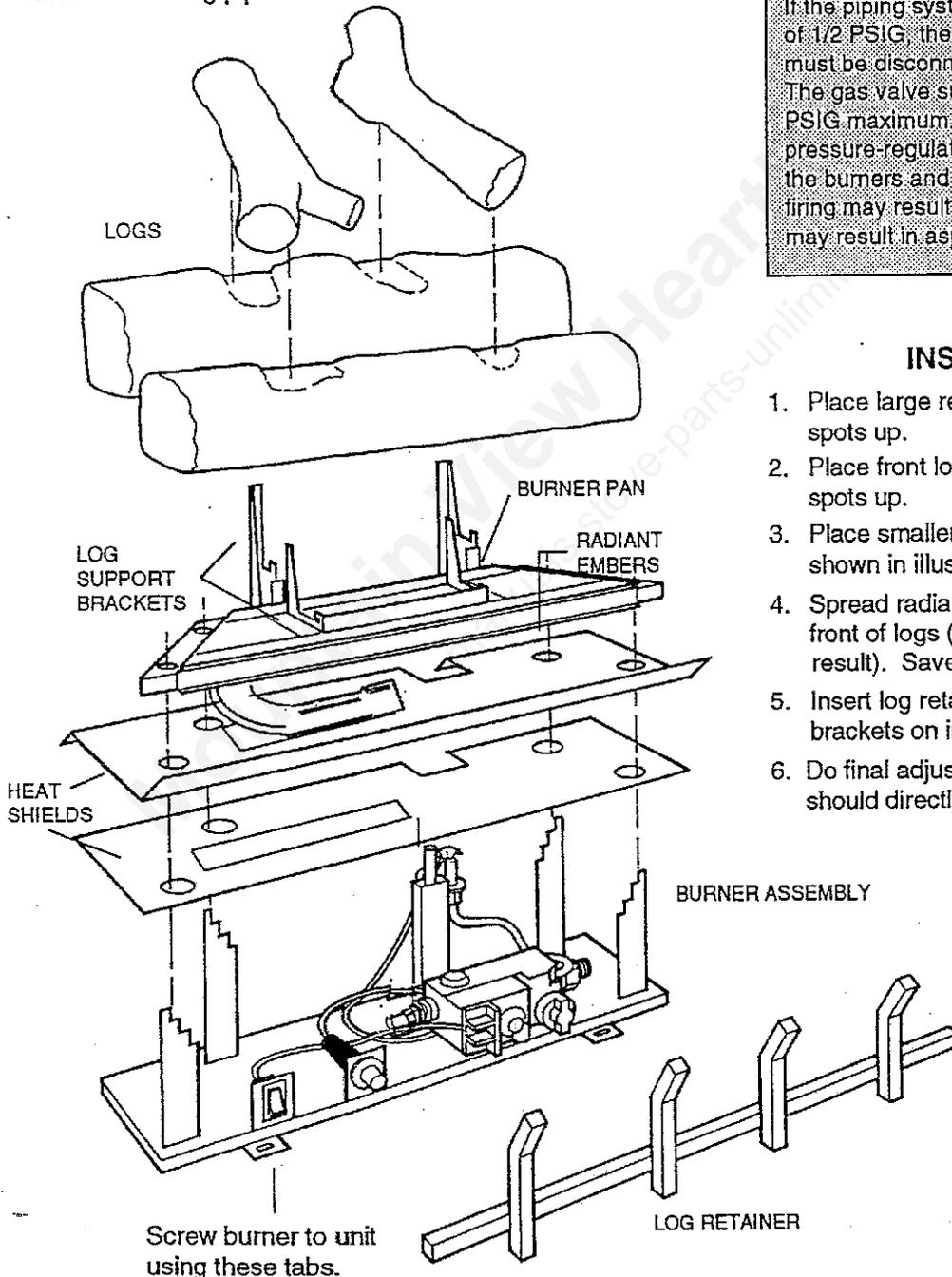
GAS PIPE AND BURNER INSTALLATION

- A. The gas burner is factory installed with a gas line coming out the back of the unit on the right side.
- B. An accessible manual shut-off valve is required in the gas supply line. A ground joint union is required in the gas supply line to provide for burner removal or servicing. The burner pan and shields may be disassembled to provide better access for gas fittings, testing, and maintenance.
- C. When a vertical section of piping is required for installation, a condensation trap (drip leg) is required.
- D. For natural gas, a minimum of 3/8" iron pipe with gas pressure of 4.5 W.C. must be used for supply from the meter. Consult with the local gas utility for any questions concerning pipe size.

- E. A 1/8" NPT plugged tapping, accessible for test gauges connection, must be installed immediately up stream of the gas supply connection to the appliance.
- F. Make gas connection to burner assembly with pipe or listed flexible connection. Seal space between pipe and knockout on firebox with high temp caulk. See illustration below.
- G. Turn gas supply on and check for leaks using a soap and water solution.

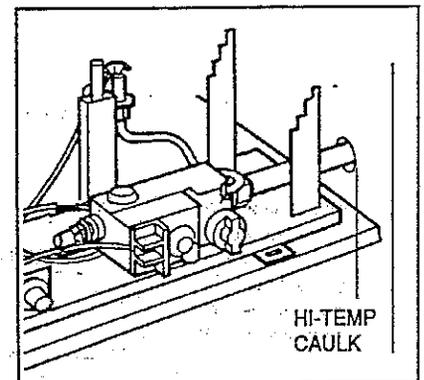
(DO NOT USE NEAR AN OPEN FLAME).

The fireplace must be isolated from the gas-supply piping system by closing the individual manual shut-off valve during any pressure testing of gas-supply piping system at test pressure equal to or less than 1/2 PSIG or 14" W.C. If the piping system is to be tested at pressures in excess of 1/2 PSIG, the fireplace and its individual shut-off valve must be disconnected from the gas-supply piping system. The gas valve supplied with this fireplace is rated at 1/2 PSIG maximum. Any higher pressure may rupture the pressure-regulator diaphragm and will cause over-firing of the burners and improper burner operation. The over-firing may result in creation of carbon monoxide which may result in asphyxiation.

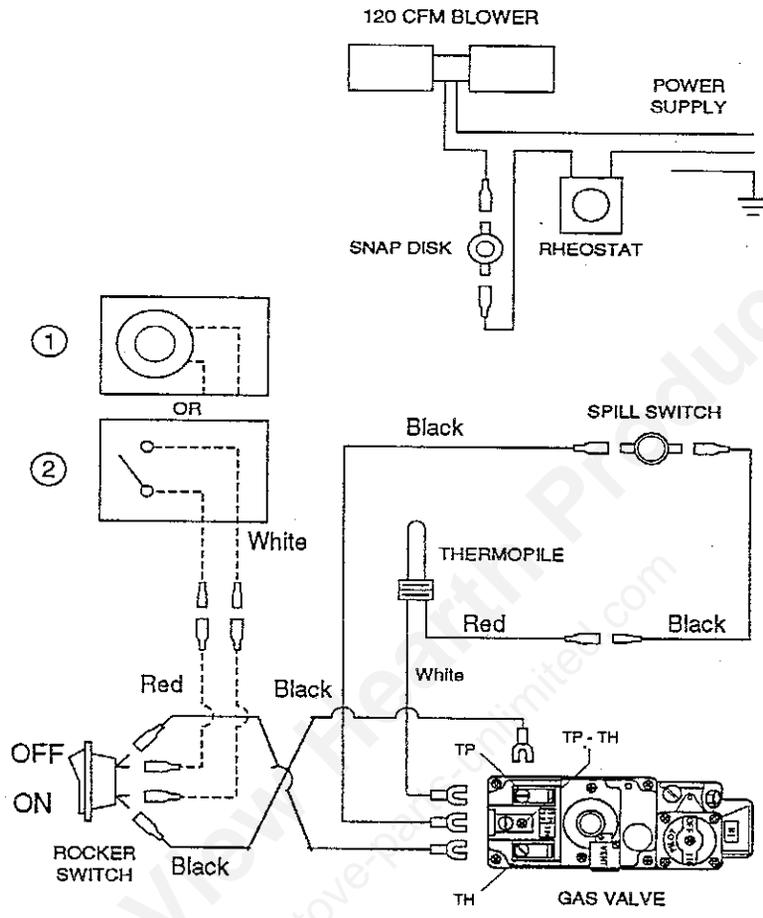


INSTALLATION OF LOGS

1. Place large rear log against back support bracket, flat spots up.
2. Place front log against front support bracket, flat spots up.
3. Place smaller top logs on flat spots of bottom logs as shown in illustration at right.
4. Spread radiant ember material along screen area in front of logs (many small pieces will give you the best result). Save the bag of radiant embers for future use.
5. Insert log retainer. Ends are supported by "U" brackets on interior sides of firebox
6. Do final adjustment of logs with burner on. No flames should directly hit the logs.



CLAY 40G WIRING SCHEMATIC



CONTROL OPTIONS

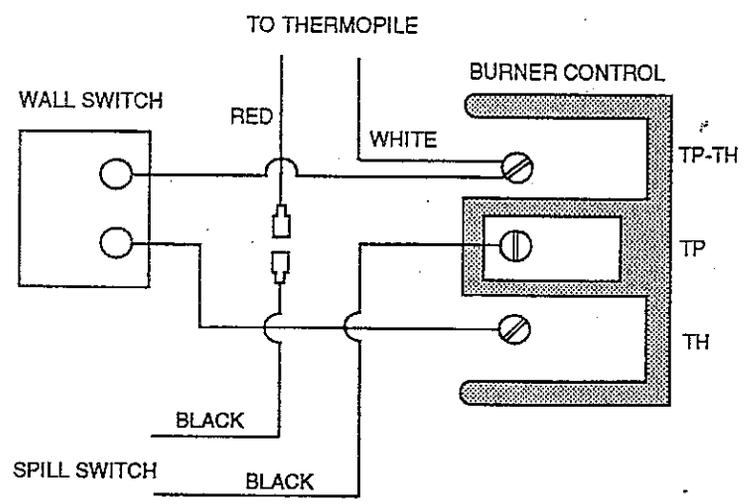
- ① THERMOSTAT
- ② A. WALL SWITCH
B. REMOTE

NOTE: Gas unit will not operate unless spill switch is installed.

----- Indicates low voltage wiring

INSTALLATION OF REMOTE WALL SWITCH FOR AUTOMATIC GAS VALVE

1. Thread wire through gas inlet opening. Be sure not to cut wire. Run wire to a conveniently located wall receptacle box. For best long term results, switch must not be more than 10 feet from fireplace.
2. Attach wire to switch and install in receptacle box.
3. Connect wiring to gas valve.



TOO TURN OFF GAS TO APPLIANCE

1. Set the thermostat to lowest setting.
2. Turn off all electric power to the appliance if service is to be performed.
3. Open lower grill.
4. Push in gas control knob slightly and turn clockwise to "OFF". Do not force.
5. Close lower grill.

FOR YOUR SAFETY READ BEFORE LIGHTING

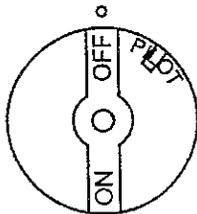
WARNING: If you do not follow these instructions exactly, a fire or explosion may result causing property damage, personal injury or loss of life.

- A. This appliance has a pilot which must be lighted by hand. When lighting the pilot, follow these instructions exactly.
 - B. BEFORE LIGHTING smell all around the appliance areas for gas. Be sure to smell next to the floor because some gas is heavier than air and will settle on the floor.
WHAT TO DO IF YOU SMELL GAS
 - * Do not try to light any appliance.
 - * Do not touch any electric switch; do not use any phone in your building.
 - * Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
 - C. Use only your hand to push in or turn the gas Control 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. Force or attempted repair may result in a fire or explosion.
 - D. Do not use this appliance if any part has been under water. Immediately call a qualified service technician to inspect the appliance and to replace any part of the control system and any gas control which has been under water.
- * If you cannot reach your gas supplier, call the fire department.

LIGHTING INSTRUCTIONS

1. STOP! Read the safety information above on this label.
2. Set the thermostat to lowest setting.
3. Turn off all electric power to the appliance.
4. Open lower grill.
5. Push in gas control knob slightly and turn clockwise to "OFF".

GAS
CONTROL
KNOB
SHOWN IN
"OFF" POSITION



NOTE: knob cannot be turned from "PILOT" to "OFF" unless knob is pushed in slightly. Do not force.

6. Wait five (5) minutes to clear out any gas. Then smell for gas, including near the floor. If you smell gas, STOP! Follow "B" in the safety information with this label. If you don't smell gas, go to the next step.

7. Turn knob on gas control counterclockwise to "PILOT".
8. Push in control knob all the way and hold in. Immediately light the pilot by pushing the piezo electric spark lighter (Red Button). Continue to hold the control knob in for about one (1) minute after the pilot is lit. Release knob and it will pop back up. Pilot should remain lit. If it goes out, repeat steps five through ten.
 - * If the knob does not pop up when released, stop and immediately call your service technician or gas supplier.
 - * If the pilot will not stay lit after several tries, turn the gas control knob to "OFF" and call your service technician or gas supplier.
9. Turn gas control knob counterclockwise to "ON".
10. Turn rocker switch on.
11. If unit fails to start, repeat steps five through ten.
12. Turn on all electric power to the appliance.

NOTE: If unit is equipped with a remote "ON - OFF" wall switch, main burner will not ignite if wall switch is "OFF".

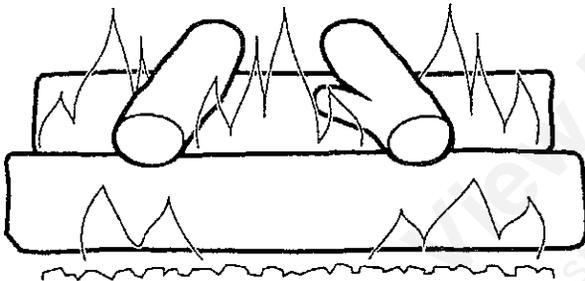
MAINTENANCE

It is important to keep burner and the burner compartment clean. This must be done periodically, at least once per season.

Steps for Cleaning Procedure:

1. Turn off pilot.
2. Remove door assembly (See instructions).
3. Remove logs.
4. Vacuum burner compartment, especially around the orifice opening.
5. Reinstall logs.
6. Replace glass.
7. Ignite pilot - see Operating Section of the manual.
8. Operate the burner and visually check to make sure the flame pattern appears similar to the pictorial illustration below.

NOTE: It is important to periodically perform a visual check of the pilot, the burner flame and flame impingement and to compare them with the diagram shown below. No flame should directly hit the logs.



SHUT-DOWN PROCEDURE

- a) To turn off Main Burner only, turn Valve Knob to "PILOT" position.
- b) For complete shut down, slightly depress Valve Knob, turn to "OFF" position.

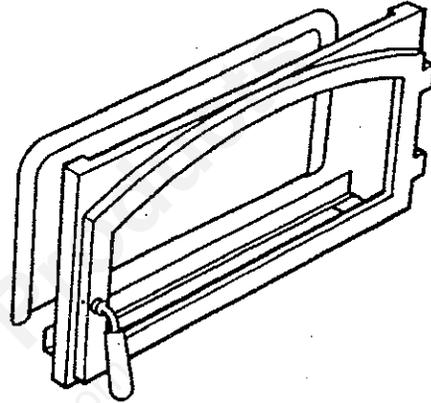
The Burner Assembly has been engineered and permanently adjusted for proper flame control. **DO NOT ALTER GAS ORIFICE.**

Periodic visual checks of the Pilot Flame should be conducted to ensure that the flame is continuously present except when the Valve Knob is in the "OFF" position.

Periodically remove the logs from the grate assembly and vacuum any loose particles from the Grate and Burner area.

REMOVAL OF DOOR ASSEMBLY AND GLASS

1. Remove four screws at top & bottom of door frame.
2. Remove door frame by pulling straight out.
3. To reinstall, reverse procedure.



NOTE: Handle on door is for aesthetics only, don't pull or turn on handle.

FAN REMOVAL INSTRUCTIONS

1. Turn off gas and electricity.
2. Remove door assembly (see instructions above).
3. Remove logs and disassemble burner assembly. See page 6.
4. Remove fan cover plate (8 screws in back). Note baffle on back of fan cover plate goes up.
5. Remove two fan mounting nuts.

OPTIONAL EQUIPMENT

OUTSIDE AIR KIT #C69065

Includes Vent Hood, 90° Elbow and Clamps.

THERMOSTAT KIT #C69142

Provides automatic temperature control. You set the temperature at your comfort level.

HAND HELD REMOTE KIT #C69070

Arm Chair convenience at the press of a button.

WALL SWITCH KIT #C69055

Allows convenience of turning unit on with a switch.

GAS PRESSURE REQUIREMENTS

The number one cause of all operating problems with gas appliances is improper gas pressure!

Such problems as changes in flame color or configuration, gas pilot or burner outages, intermittent operation, changes in heat output, excessive burner noise, etc., are nearly always the result of changes in gas pressure or improper gas pressure at the time of the installation.

The most important item to check during the initial installation and the first thing to check when operating problems occur is gas pressure!

Gas Supplies normally enter a typical residence at 1/2 PSI (13"-15" W.C.) (3.KPA). A regulator is then placed inside the residence which drops this pressure to 7" W.C. (1.8KPS) (Nat. Gas).

This "inches to inches" regulator is of adequate capacity to service the gas appliances such as water heater, dryer, furnace, etc. If this regulator's capacity is not sufficient to add the Gas Clay 40, an additional "inches to inches: regulator must be installed specifically for the fireplace. EXCEPTION: some codes allow 2 PSI (1.4KPA) supplies to enter the residence, in which case "pounds to inches" regulators are used.

The following table provides information on correct gas pressure requirements. **Be sure your gas supplier or plumber carefully follows this table when installing your Gas Appliance.**

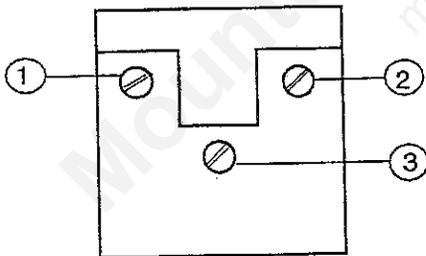
	DESIRED PRESSURE	MINIMUM PRESSURE	MAXIMUM PRESSURE	MANIFOLD PRESSURE*	AIR SHUTTER POSITION
NATURAL GAS	7.0" W.C.	4.5" W.C.	10.5" W.C.	3.5" WC	1/8" OPEN
L.P. GAS	11.0" W.C.	10.0" W.C.	14.0" W.C.	10.5" W.C.	FULL OPEN

*1/8" N.P.T. Pressure tap is located on Robertshaw Control - manifold pressure must be taken with burner operating.

MILLIVOLT SYSTEM CHECK

The millivolt system and individual components may be checked with a millivolt meter having a 0-1000 MV range. Before checking the system, be certain wall thermostat lead wire does not exceed length recommended in the Wiring Section Table, and all connections are clean and tight.

Conduct each check shown in the chart below by connecting meter test leads to terminals as indicated. All readings are closed circuit.



Component Check	Connect Meter Test Leads To Terminals	Wall Thermostat Contacts Should Be	Meter Reading Should Be	See Check Result Below
Valve Operator System	2 & 3	Closed	Greater Than 100 MV	A
Wall Thermostat	1 & 3	Closed	Less Than 80 MV	C
Thermopile and Magnet	1 & 2	Open	Greater Than 325 MV	B

A. TEST RESULTS

If the reading is more than 100 millivolts and the automatic valve does not come on, replace the valve operator. If the closed circuit reading is less than 100 millivolts, determine the cause by preceding with steps "B" and "C".

B. TEST RESULTS

If "B" reading is less than 325 MV, clean and tighten all electrical connections and adjust pilot if necessary to increase millivolt output. If unable to adjust to at least the specified minimum, change the thermopile.

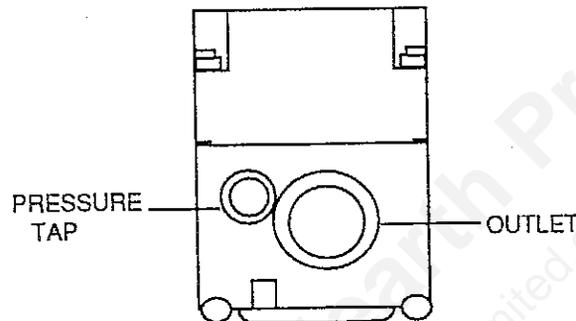
When proper thermopile output is obtained, the magnet may then be checked. With pilot in operation, allow meter reading to stabilize. Extinguish pilot burner and note meter reading at dropout point of magnet. If magnet remains locked up to a reading of 120 MV or less, the magnet is good.

C. TEST RESULTS

If "C" reading is more than that specified for the system being checked, clean and tighten thermostat leads and connection, shorten lead wires if possible or use heavier gauge wire. Rapidly cycle thermostat to clean contacts, or change the thermostat.

MANUAL AND ELECTRIC MODELS

1. Manometer or gauge attachment may be accomplished at pressure tap plug.
2. Remove regulator adjustment screw cap (top of regulator).
3. With small screwdriver, rotate adjustment screw "clockwise" to increase, or "counterclockwise" to decrease pressure.
4. Replace regulator adjustment screw cap.



The Claytons have been safety tested by Warnock Hersey Inc. to the following standards:
ANSI Z21.11.1b and Can 1-2.1-Vented Room Heater.
Safety Controls - AGA Certified
Switches and Rheostats - UL Listed

ANSI APPROVAL

Gas appliances must be tested and certified by a nationally recognized testing and certification laboratory to ANSI (American National Standards Institute) gas appliance safety standards.

There are a number of nationally recognized testing and certification agencies around the United States and Canada. Among them are Warnock Hersey, American Gas Association Laboratories, Underwriters Laboratories, etc.

The Clayton Clay-40G has been tested and certified by Warnock Hersey Inc., 8431 Murphy Drive, Middleton, Wisconsin 53562 to ANSI #Z21.111b vented room heater and CAN 1-2.1.

The Clayton Clay-40G has met all necessary AGA/ANSI Standards and are fully certified for installation in any community. If there are any questions or if you need further substantiation either write to or call Warnock Hersey, Inc. in Middleton at (608) 836-4400, Wisconsin or call Clayton at (615) 837-2100.

TROUBLESHOOTING

PROBLEM: Piezo sparker won't light pilot.

POSSIBLE CAUSES:

1. Misaligned electrode.
2. Incorrect wire connections.
3. Defective electrode (too cracked, dirty, or misaligned).
4. Defective push button.
5. No gas present.

REMEDIES:

1. Realign electrode so it produces spark into pilot hood (approximately 1/8" from pilot hood).
 2. Make sure connections are proper.
 3. Replace electrode if shorted out or if it has cracked porcelain.
 4. Replace push button.
 5. turn gas on.
-

PROBLEM: Pilot will not stay lit.

POSSIBLE CAUSES:

1. Incorrect lighting procedure.
2. Pilot flame not making proper contact with thermopile.
3. Bad connection between thermopile and screw terminals on gas valve.
4. Wires on wrong terminals.
5. Thermopile is defective, dirty or weak.
6. Thermopile is shorting out where it passes through cabinet.
7. Gas valve will not prove pilot.
8. Spill switch wires not connected or bad switch.
9. Air on line.
10. Wire from valve to wall switch or remote switch is nicked or shorting out.
11. Switch defective or short in circuit.

REMEDIES:

1. Checking lighting instructions found on label in gas fireplace or in owners manual.
2. Adjust pilot up.
3. Make sure screws are snug holding thermopile. (Do not overtighten or you will strip them.)
4. White lead from thermopile must go to top screw TH TP terminal and red wire must go to spill switch wire.
5. Test with millivolt meter and replace if necessary. Thermopile should read about 325-550 millivolts.

6. Replace thermopile.

7. Replace valve.

8. Connect spill switch wires to valve - make sure spill switch is closed with meter.

PROBLEM: Pilot stays on but main burner won't come on.

POSSIBLE CAUSES:

1. Wired incorrectly.
2. Wall switch, on/off switch, or remote hand switch defective.
3. Not enough voltage being generated by pilot.
4. Defective control valve.

REMEDIES:

1. One wire to top screw (TH TP) of valve, one to bottom screw (TH). One wire to each side of switch or thermostat.
 2. Replace wall switch, on/off switch, or remote hand switch.
 3. Adjust pilot light up to create more voltage or replace thermopile.
 4. Replace control valve.
-

PROBLEM: Wall switch must be pushed multiple times to make flame come on.

POSSIBLE CAUSES:

Defective wall switch.

REMEDIES:

Replace wall switch.

NOTE: Can use standard single pole electrical switch.

PROBLEM: Window keeps getting sooty.

POSSIBLE CAUSES:

Unit needs more primary air.

1. Blocked primary air port.
2. Unit is spilling.
3. Flame impingement on logs or elsewhere.
4. Logs too close to or touching glass.
5. Valve and burner over-fired.

REMEDIES:

1. Check between the elbow and orifice where it enters the side of the burner. Over a period of time dust, lint, pet hair, etc. can plug primary air hole. Clean out.
2. Check for blocked flue or downdraft situation.
3. Reposition logs or adjust flame.
4. Move logs to allow at least 3/8" clearance from logs to glass.
5. Check the amount of flow with monometer, and adjust regulator if necessary.

PROBLEM: Dirty window. (White on window.)

POSSIBLE CAUSES:

Initial burn off of paint and sealants used to produce unit.

REMEDIES:

1. Clean window using AJAX or COMET, and paper towel.
2. Dissolve powder AJAX or powder COMET in water on window. Clean in small circular motions. Rinse thoroughly and reinstall in unit. **DO NOT USE ANY LIQUID CLEANERS** on window. It will burn black on window when reinstalled.

Note: Windows are made of neo (pyro) ceramic, NOT glass. Because of this, they will handle temperatures in excess of 1,200° F constant temperature. The window only reaches between 500-600° F. Because of this it is almost impossible to bake something into the window. Most things will, with a little effort, come off if you follow these directions.

PROBLEM: Circulating fan speed does not vary.

POSSIBLE CAUSES:

Variable speed rheostat defective.

REMEDIES:

Replace rheostat.

Note: Only replace rheostat with a rheostat supplied by Clayton Manufacturing. Light dimmer switches or incorrect rheostats will burn out the fan motor. This will void the warranty of the fan.

PROBLEM: Fan makes humming sound, but won't come on.

POSSIBLE CAUSES:

1. Rheostat needs adjustment.
2. Fan impellers dirty.
3. Fan defective.

REMEDIES:

1. Adjust variable speed control.
2. Clean fan.
3. Replace fan.

Note: Make sure the fan plug-in cord is not nicked by decorative trim kits. This could cause the fan to short out and also damage the gas valve.

PROBLEM: Fireplace not venting

POSSIBLE CAUSES:

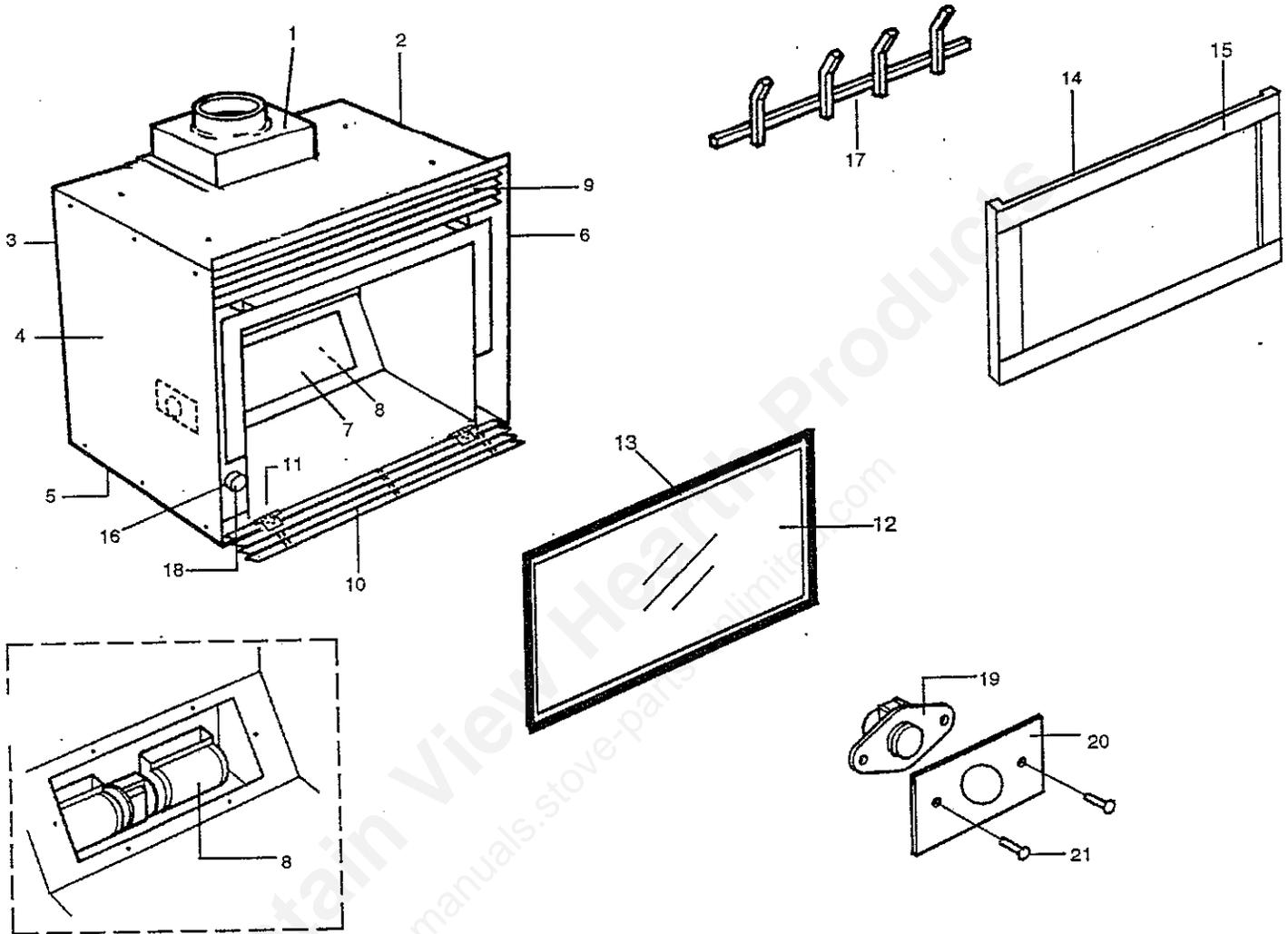
1. Chimney blocked.
2. Air problems in house, negative pressure, etc.
3. Improper chimney installation.

REMEDIES:

1. Remove blockage.
2. Air used must be replaced. Guidelines can be found in your local gas codes under "Combustion Air Requirements". Install Clayton outside air kit.
3. Check all chimney connections for proper fit.

CLAY-40 GAS FIREPLACE PARTS LIST

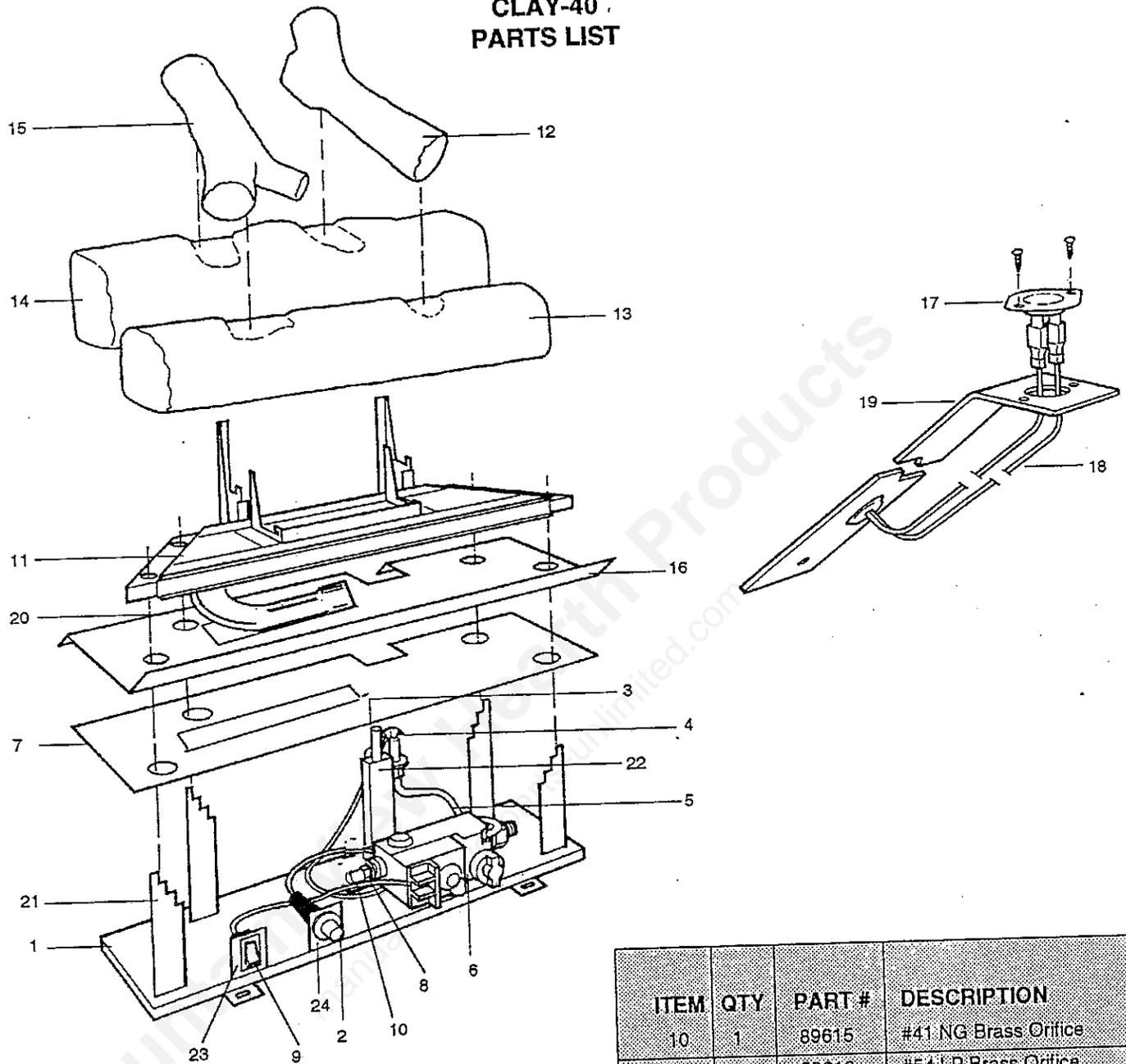
All-repair parts will be available from your local dealer. When ordering, always give the following information: (A) part number, (B) part description and (C) model number.



ITEM	QTY	PART #	DESCRIPTION
1	1	68897	Connector Box
2	1	23940	Top
3	1	23936	Outer Back
4	1	23938	Left Side
5	1	23924	Base
6	1	23937	Right Side
7	1	C45110	Fan Cover
8	1	80337	120 CFM Blower
9	1	C45109	Top Grill
10	1	C45104	Bottom Grill
11	2	C18513	Hinge
12	1	C93945	Glass
13	68"	99460	3/4 Rope Gasket
14	1	CL4246	Glass Holder

ITEM	QTY	PART #	DESCRIPTION
15	1	C95924	Square Brass Trim
16	1	C42375	Fan Speed Control
17	1	89676	Log Retainer
18	1	C41255	Speed Control Knob
19	1	C45575	Snap Disc
20	1	C04565	Cover Plate
21	2	83437	Screw #8 x 1/2 TEK

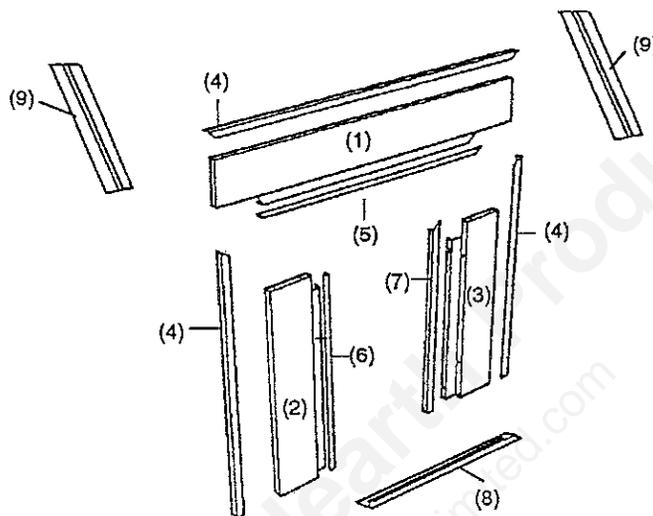
CLAY-40 PARTS LIST



ITEM	QTY	PART #	DESCRIPTION
1	1	23932	Control Pan
2	1	C43810	Piezo Ignitor
3	1	C43815	Thermopile
4	1	89685	NG Pilot Orifice #18
8	1	89686	LP Pilot Orifice #10
5	1	86423	Pilot Supply Line
6	1	89653	Nat. Gas Valve
8	1	89654	LP Gas Valve
7	1	68760	Lower Heat Shield
8	1	C43808	3/8" to 1/2" Bushing
9	1	C42373	On/Off Rocker Switch

ITEM	QTY	PART #	DESCRIPTION
10	1	89615	#41 NG Brass Orifice
	1	89616	#54 LP Brass Orifice
11	1	C45108	Burner Assembly
12	1	C93167	Top Right Log
13	1	C94164	Front Log
14	1	C93166	Rear Log
15	1	C94165	Top Left Log
16	1	68761	Upper Heat Shield
17	1	C45580	250 Deg Spill Switch
18	1	80332	Spill Switch Wire Harness
19	1	68895	Spill Switch Bracket
20	1	86503	Venturi
21	4	23933	Burner Support
22	1	C04575	Pilot Assembly Bracket
23	1	C04567	Switch Bracket
24	1	C04569	Piezo Bracket

40G - INSERT TRIM KIT PARTS LIST (OPTIONAL)



9" BLACK INSERT PANEL W/GOLD TRIM KIT

ITEM	QTY.	PART #	DESCRIPTION
1	1	C14530	9" Top Panel-Black
2	1	C14531L	9" Left Side Panel-Black
3	1	C14531R	9" Right Side Panel-Black
4	3 pcs.	C95940	9" Gold Trim Kit w/hardware
5	1	CL4553	Inner Top Trim
6	2	CL4554	Inner Side Trim (left/right)
7	1	CL4545	Insert Black Trim

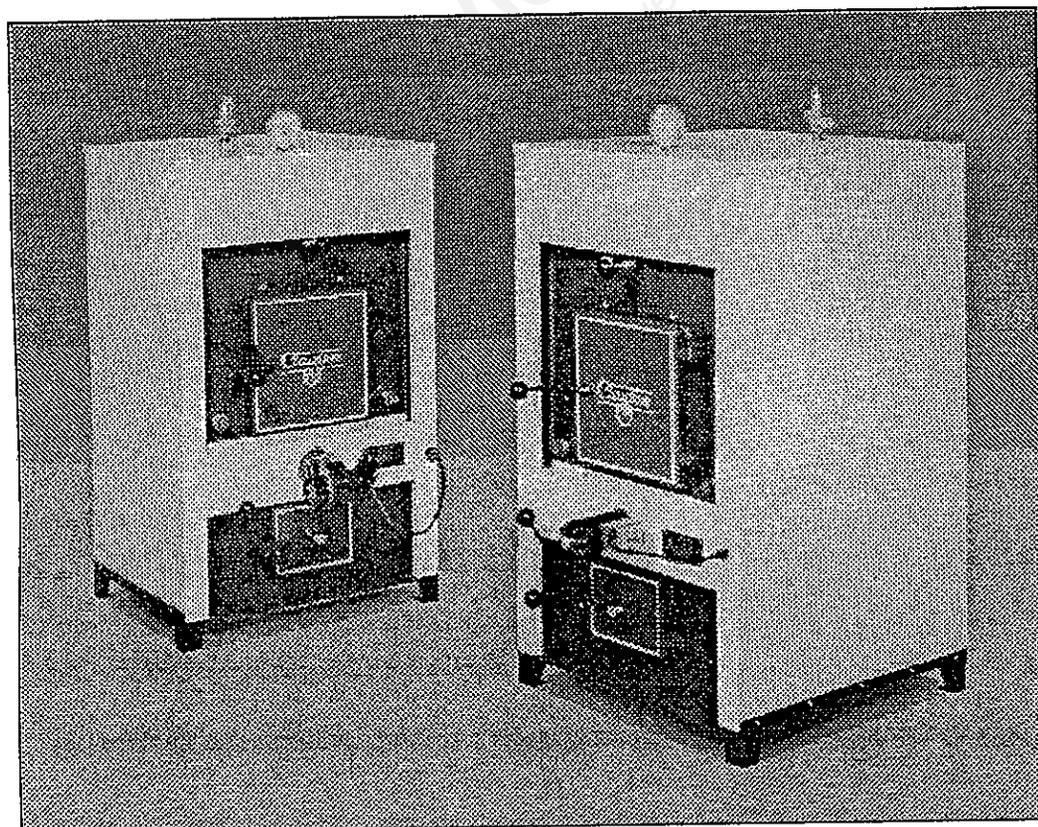
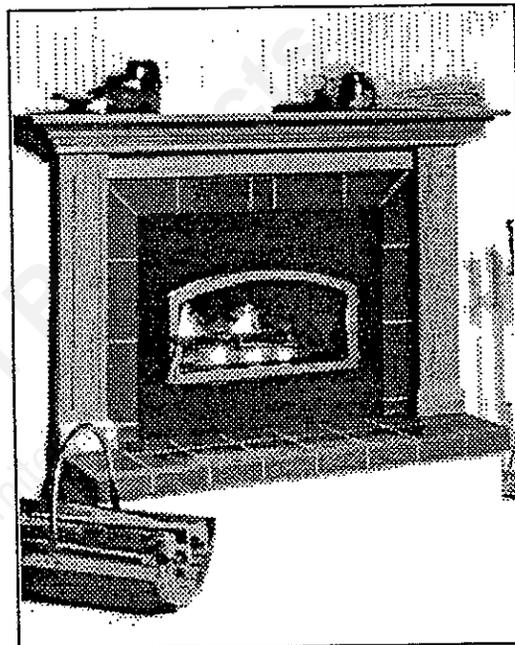
12" BLACK INSERT PANEL W/GOLD TRIM KIT

ITEM	QTY.	PART #	DESCRIPTION
1	1	G14547	12" Top Panel-Black
2	1	C14550L	12" Left Side Panel-Black
3	1	C14550R	12" Right Side Panel-Black
4	3 pcs.	C95945	12" Gold Trim Kit w/hardware
5	1	CL4553	Inner Top Trim
6	1	CL4554	Inner Side Trim (left/right)
7	1	CL4545	Insert Black Trim

SOME OTHER FINE PRODUCTS FROM...

Clayton

MODEL
Clay-60
GAS ZERO CLEARANCE
FIREPLACE



CLAYTON 5.6/7.1
SOLID FUEL
FURNACES

HOW TO ORDER REPAIR PARTS

THIS MANUAL WILL HELP YOU OBTAIN EFFICIENT, DEPENDABLE SERVICE FROM THE HEATER, AND ENABLE YOU TO ORDER REPAIR PARTS CORRECTLY.

KEEP IN A SAFE PLACE FOR FUTURE REFERENCE.

WHEN WRITING, ALWAYS GIVE THE FULL MODEL NUMBER WHICH IS ON THE NAMEPLATE ATTACHED TO THE BACK OF THE HEATER.

WHEN ORDERING REPAIR PARTS, ALWAYS GIVE THE FOLLOWING INFORMATION AS SHOWN IN THIS LIST:

1. The PART NUMBER
2. The PART DESCRIPTION
3. The MODEL NUMBER: CLAY - 40GI
4. The SERIAL NUMBER: _____

CLAYTON
227 Industrial Park Road
P.O. Box 151
South Pittsburg, TN 37380
(615) 837-2100