KOZY HEAT

MODEL: #56701
Thief River Falls - 'TRF'

DIRECT VENT GAS FIREPLACE

INSTALLATION AND OPERATING MANUAL

WARNING: If the information in these instructions 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 electrical switches; do not use the phone in your building.
♦ Immediately call your gas supplier from a neighbor's phone. Follow your gas supplier's instructions.
♦ If you cannot reach your gas supplier, call the fire department.

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

This appliance may be installed in an aftermarket permanently located, manufactured (mobile) home, where not prohibited by local codes. This appliance is only for use with the type(s) of gas indicated on the rating plate. This appliance is not convertible for use with other gases, unless a certified kit is used.

IMPORTANT:
READ INSTRUCTIONS CAREFULLY BEFORE INSTALLATION. FAILURE TO INSTALL THIS FIREPLACE CORRECTLY CAN CAUSE SERIOUS STRUCTURAL AND FIRE HAZARDS AND MAY VOID YOUR WARRANTY.

www.kozyheat.com

SUNSET FIREPLACE MANUFACTURING CO.

OMS Test Laboratories, Inc.

September 2004
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IMPORTANT:

READ THIS MANUAL BEFORE INSTALLING AND USING THIS FIREPLACE

MODEL #56701 ‘THIEF RIVER FALLS’ DIRECT VENT GAS FIREPLACE

This fireplace has been tested to and complies with ANSI Z21.88B-2003 oCSA 2.33B-2003 “VENTED GAS FIREPLACE HEATERS” by OMNI-Test Laboratories, Beaverton, OR. Installation must conform with local building codes or in the absence of local building codes, with the National Fuel Gas Code, ANSI Z223.1/ NFPA 54 - Current Edition, or the Natural or Propane Installation Code, CSA B149.1.

WARNING: This Product Must Be Installed By A Licensed Plumber Or Gas Fitter When Installed Within The Commonwealth of Massachusetts.

CONSULT YOUR LOCAL OR NATIONAL INSTALLATION CODES TO ASSURE THAT ADEQUATE COMBUSTION AND VENTILATION AIR IS AVAILABLE.

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

DO NOT REPLACE THIS BURNER UNIT WITH ANY OTHER SIZED BURNER. REPLACEMENT WITH AN UNAUTHORIZED BURNER CAN RESULT IN TEMPERATURES EXCEEDING THE LIMITS FOR THIS UNIT, AND VOID YOUR WARRANTY.

IMPORTANT: NON-COMBUSTIBLE FACING MATERIAL MAY BE APPLIED OVER THE FACE. TO PREVENT THE FACING MATERIAL FROM CRACKING AND FALLING OFF DUE TO EXPANSION OF THE FACE WHEN HEATED, DO NOT ATTACH FACING MATERIAL DIRECTLY TO THE FACE OF THE UNIT. DO NOT OBSTRUCT THE FLOW OF VENTILATION AIR.

INSPECT THE FIREPLACE & ALL COMPONENTS

Inspect the fireplace, vent system & all components. Contact your dealer if any parts are damaged or missing. Do not install the fireplace with damaged, incomplete, or substitute parts.

PLANNING THE INSTALLATION

Prior to installation of this fireplace, the following must be considered:

♦ Location of fireplace.
♦ Configuration of vent system.
♦ Gas piping.
♦ Electrical wiring (for optional fan).
♦ Framing.
♦ Hearth height, width & depth, if desired. NOTE: A hearth is not required.
♦ Materials used for finishing the fireplace. IMPORTANT: A combustible material stand-off is included with this fireplace. Refer to page 22 for installation requirements.
♦ Optional accessories used: Fan, wall switch, remote control, thermostat, etc..

NOTE: When the unit is installed directly on carpeting, tile, or other combustible materials other than wood flooring, it must be installed on a metal or wood panel extending the full width and depth of the unit. The minimum for the support platform under the unit is 40 3/4“ wide by 15 3/4“ deep.

If masonry is to be used (optional), prepare the necessary foundation for the masonry load. When masonry construction is being used, a lintel must be used over the top of the unit to support the added weight.
SPECIFICATIONS

Height .................................. 34 3/4"
Height to top of stand-off ......... 38"
Front width .......................... 40 3/4"
Back width ......................... 22 1/2"
Depth .................................. 15 3/4"

Refer to Diagrams for additional measurements.
INSTALLATION REQUIREMENTS:

Minimum clearances from the fireplace to combustible materials:

From unit face top: 3 1/2''
From unit left & right sides & back: 1/2''
Surround Sides: 0''
To flooring: 0''
Unit top to ceiling: 31''
Unit side to adjacent sidewall: 0''

Mantel Requirements*:
Unit top to 8'' mantel: 8''
Unit top to 12'' mantel: 12''
Projection: 3/4'' maximum projection allowed a minimum of 6'' from unit top.

*See chart at right for additional mantel requirements.

Minimum clearances from vent system:

Dura-Vent or Ameri-Vent chimney systems:
Horizontal Sections: Top: 1 1/2''
Bottom & Sides: 1''
Vertical Section: All sides: 1''

#700 Series Flex Vent System: 1''

IMPORTANT: REFER TO THE VENT PIPE MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR MINIMUM / MAXIMUM PASS-THRU WALL THICKNESSES ALLOWED FOR THEIR WALL THIMBLE.

TYPICAL INSTALLATION OPTIONS:

FIGURE 2A

Model #56701 'TRF'

NOTE:
1/2'' clearance at the back & sides of the fireplace must be maintained.

Finished front opening dimension includes 1/4'' expansion space.
Combustible materials are allowed as shown in figure 2B.
10'' wall materials included in dimensions where applicable. Modify the minimum opening if necessary to accommodate finish material thickness.

FIGURE 2B
VENTING REQUIREMENTS:

THIS FIREPLACE IS APPROVED FOR USE WITH THE SIMPSON DURA-VENT DV-GS 4" X 6 5/8" DIRECT VENT SYSTEM & AMERI-VENT DIRECT CHIMNEY SYSTEM 4" X 6 5/8" DIRECT VENT SYSTEM FOR HORIZONTAL & VERTICAL TERMINATIONS.

THIS FIREPLACE IS ALSO APPROVED FOR USE WITH THE KOZY HEAT #700 SERIES FLEXIBLE VENT SYSTEM WHEN A HORIZONTAL TOP VENT APPLICATION IS DESIRED. A FLEX VENT SYSTEM ADAPTOR, PART #923-F, MUST BE INSTALLED TO PROPERLY ADAPT THE COLLARS ON THE FIREPLACE TO ACCEPT THE FLEXIBLE VENT SYSTEM.

Contact your dealer for the appropriate venting components for your specific application.

Refer to the vent system manufacturer's installation manual for complete installation instructions. Installation must conform with the venting requirements & restrictions as outlined in this manual.

IMPORTANT: Consult the local and national installation codes to assure that adequate combustion and ventilation air is available.

VENTING SPECIFICATIONS:

The fireplace vent system is approved for use with up to 3 - 90-degree elbows. The vertical rise in relation to the horizontal run and number of elbows used in the vent configuration must be strictly adhered to. Refer to the diagrams that follow.

IMPORTANT: Flame height and appearance will vary depending upon venting configuration and type of fuel used.

BACK (REAR) VENTING: STRAIGHT OUT THE BACK: Minimum: 6" followed by termination cap
Maximum: 24" followed by termination cap.

VERTICAL TERMINATIONS: Minimum: 90-degree elbow, 14"
Maximum: 90-degree elbow, 22 ft.

ELBOWS: FOR EACH ADDITIONAL ELBOW USED AFTER THE FIRST ELBOW, 3 FT. MUST BE SUBTRACTED FROM THE MAXIMUM VENTING ALLOWED. A MAXIMUM OF (3) 90- DEGREE ELBOWS MAY BE USED, HOWEVER (2) 45-DEGREE ELBOWS MAY BE USED IN PLACE OF (1) 90-DEGREE ELBOW.

TOP VENTING: The flange on the stand-off / heat shield assembly must be bent 'up' so that it is at a 90° angle. This will allow ample room for installation of the vent system when using the top vent option.

HORIZONTAL TERMINATIONS: Minimum: 90-degree elbow, followed by 6" section, then termination cap.
Maximum: 90-degree elbow then maximum 14 ft.

VERTICAL TERMINATIONS: Maximum: 33 ft.

Horizontal & Vertical combination-30 ft.: 10 ft. maximum horizontal / 20 ft. maximum vertical

MINIMUM TOP VENT CORNER CONFIGURATION: 90-degree elbow directly off the top of the fireplace, followed by a 12" - 17" adjustable pipe length. Wall thickness will determine horizontal length. A minimum of 44 1/8" to the top of the pipe and 45 5/8" to the top of the framed opening from the floor / hearth the fireplace is setting on is required.

ELBOWS: FOR EACH ADDITIONAL ELBOW USED AFTER THE FIRST ELBOW, 3 FT. MUST BE SUBTRACTED FROM THE MAXIMUM VENTING ALLOWED. A MAXIMUM OF (3) 90-DEGREE ELBOWS MAY BE USED, HOWEVER (2) 45-DEGREE ELBOWS MAY BE USED IN PLACE OF (1) 90-DEGREE ELBOW.

HORIZONTAL TERMINATIONS: IF INSTALLING THE VENT SYSTEM WHERE IT MAY BE VULNERABLE TO WIND CONDITIONS, WE RECOMMEND INSTALLING THE #700-CVR DECORATIVE COVER AROUND THE TERMINATION CAP.
Minimum horizontal venting using the top vent option.

Figure 3A

Figure 3B

Minimum top vent corner installation

Figure 3C

Minimum horizontal venting using the back vent option.
This gas appliance must not be connected to a chimney flue serving another type of appliance.

GENERAL:

1. Terminations against vinyl siding must use a vinyl siding protector. Follow instructions included.

2. **DO NOT RECEESS TERMINATION KIT INTO OUTSIDE BUILDING MATERIALS** - i.e.: brick, stone, siding, etc.. If necessary, extend framing so that termination kit will be exposed once building materials are installed.

3. Vent termination must not be located where it will become plugged by snow or other material. The flow of combustion and ventilation air must be not obstructed.

LOCATION CLEARANCES:

1. Above grade, veranda, porch, deck, balcony - 12", (A)
2. Operable window - 12" (B)
3. Permanently closed window - 12" (recommended to prevent condensation on window) (C)
4. Ventilated soffit - 24" (D)
5. Unventilated soffit - 12" (E)
6. Outside / inside corner - 12" (F)
7. Meter / Regulator: NOT TO BE INSTALLED ABOVE within 3 ft. horizontally from the center line of the regulator.
8. Service regulator vent outlet - 3 ft. radius
9. Electrical box - 3 ft. (G) DO NOT INSTALL ABOVE AN ELECTRICAL BOX!
10. Non-mechanical air supply inlet to building - 12"
11. Combustion air inlet to any other appliance - 12"
12. Mechanical air supply inlet - 6 ft. (H) NOTE: Massachusetts installations: 10 ft.
13. Above furnace exhaust or inlet - 12"
14. Above paved side-walk or paved driveway located on public property - 7 ft. * (I)
15. Under veranda, porch, deck, or balcony (must be fully opened on a min. of 2 sides) - 12" (J)
16. Between two horizontal terminations - 12"
17. Between two vertical terminations - 12" (K) - Note: May be the same height.

* A vent cannot be located directly above a side-walk or paved driveway that is located between two single family dwelling and serves both dwellings.

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**FIGURE 4**

[Diagram showing vent locations and clearances]

* CHECK LOCAL & STATE BUILDING CODES FOR ADDITIONAL REQUIREMENTS AND/OR RESTRICTIONS
WHEN VERTICALLY TERMINATING, THE MINIMUM CHIMNEY HEIGHT ABOVE THE ROOF LINE IS DETERMINED BY THE FOLLOWING CHART:

<table>
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<tr>
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<th>Minimum Chimney Height</th>
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<td>6/12 to 9/12</td>
<td>2 ft.</td>
<td>17/12 to 21/12</td>
<td>8 ft.</td>
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<td>10/12 to 12/12</td>
<td>4 ft.</td>
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CAUTION: This gas appliance must not be connected to or joined with any chimney flue serving any other appliance.

**FIGURE 5A**

**FIGURE 5B**

Flange must be at a 90° angle when using the top venting option.
Determine Location

1. Determine the exact position of your fireplace, the width, depth and height of the hearth (optional), and location of the vent system termination. If possible place the fireplace in such a manner that the vent termination will be placed between two studs so additional framing is not necessary.

NOTE: A hearth is not required. If a hearth is desired, combustible materials may be used.

IMPORTANT - Vent cap location must be in compliance with the guidelines on page 6 of this manual.

2. This fireplace has both top and back (rear) venting capabilities. The fireplace is manufactured for back (rear) vent applications, but is easily convertible for top vent applications. Depending on the installation desired & your specific venting configuration, you will need to decide which ONE (top or back) will be used.

If a top vent configuration is desired, complete instructions on converting the fireplace to accept top venting is located on pages #11-#14.

3. HORIZONTAL TERMINATIONS: Frame an opening on the exterior wall for the chimney termination. Refer to the vent pipe manufacturer’s instructions for specific height (H) and width (W) framing dimensions.

The top of this opening must allow a minimum 1 1/2" clearance from the top of the chimney system for rigid pipe applications and 1" clearance from the top of the chimney system for the Kozy Heat #700 series flexible vent system. A 1" clearance from the sides and bottom of the vent systems is required.

To achieve the minimum rear venting requirements, for RIGID PIPE APPLICATIONS, a minimum of 31" (A) to the top of the vent pipe and 32 1/2" (B) to the top of the framed opening from the floor or hearth the fireplace is setting on is required. See figure 6A.

4. VERTICAL TERMINATIONS: Follow vent pipe manufacturer’s installation instructions for vertical terminations. A minimum 1" clearance on all sides of vertical vent pipe sections must be maintained.

To achieve the minimum top venting requirements, for RIGID PIPE APPLICATIONS, a minimum of 44 1/8" (C) to the top of the vent pipe and 45 5/8" (D) to the top of the framed opening from the floor or hearth the fireplace is setting on is required. See figure 6A.

To achieve the minimum top vent corner installation requirements, for FLEX VENT APPLICATIONS, a minimum of 52 1/2" (C) to the top of the vent pipe and 53 1/4" (D) to the top of the framed opening from the floor or hearth the fireplace is setting on is required. See figure 6A.

Caution: Cold air transfer area. The surrounding chase of the fireplace must comply with all clearances as outlined in this manual and be constructed in compliance with local building codes. Outside walls should be insulated to prevent cold air from entering the room.

NOTE: Due to high temperatures, this unit should be located out of traffic areas and away from furniture and draperies.
5. Build the hearth to the desired size and height. See notes below.

6. Rough in the wall enclosure.

**IMPORTANT:** Framing dimensions should allow for wall covering thickness and fireplace facing materials. Adjust opening size as necessary to maintain at least the minimum clearance requirements.

**Minimum opening dimensions are:**

38 1/4" high x 41 1/4" wide x 16 1/4" deep

**IMPORTANT:** 2" X 4" construction is used for the header in figure 6B. If 2" x 6" construction is used, the stud must be installed on end when top venting to maintain the required clearances to the vent pipe.

**IMPORTANT:** NON-COMBUSTIBLE ZONE - See figure 6C.

Minimum finished front opening width (wall covering / facing materials included): 41 1/4"

Minimum finished depth (wall covering / facing materials included): 16 1/4"

*1/2" clearance at the back & sides of the fireplace must be maintained. See figure 6D, page 11.

**NOTE:** When the unit is installed directly on carpeting, tile, or other combustible materials other than wood flooring, it must be installed on a metal or wood panel extending the full width and depth of the unit. The minimum for the support platform under the unit is 40 3/4" wide by 15 3/4" deep. If masonry is to be used (optional), prepare the necessary foundation for the masonry load. When masonry construction is being used, a lintel must be used over the top of the unit to support the added weight.

**NOTE:** If a hearth extension is desired, combustible materials may be used.
NOTE: Provide adequate clearance in front of the fireplace to access the control valve, install and attach gas line, install a fan, etc.

Do not obstruct the upper and lower convection air passage areas to allow proper ventilation air around the unit. Room air enters through the lower passage, is heated and exits at the upper passage. Blocking these passages may result in overheating the fireplace creating a potentially hazardous situation.

![Diagram of fireplace setup with clearance markings.]

**FIGURE 6D**

**PREPARE THE FIREPLACE**

**BACK (REAR) VENT APPLICATIONS:** This fireplace is manufactured for back (rear) vent applications using an approved rigid 4" x 6 5/8" direct vent system. There is no additional adaptor necessary to begin installing the chimney components.

**TOP VENT APPLICATIONS FOR USE WITH THE KOZY HEAT #700 SERIES FLEXIBLE VENT SYSTEM:** A flex vent system adaptor, part #923-F, must be installed when a horizontal top vent application using the Kozy Heat #700 Flexible Vent system is desired. Follow instructions included with the adaptor for proper installation procedures.

**TOP VENT APPLICATIONS FOR USE WITH SIMPSON DURA-VENT OR AMERI-VENT 4" X 6 5/8" RIGID VENT SYSTEMS:**

The exhaust & combustion air intake collars on the back of the fireplace must be re-positioned to the top of the fireplace when venting out the top.

The instructions following will guide you through this process.

**REMOVE THE VENT COLLARS FROM THE BACK OF THE FIREPLACE**

**NOTE:** All of the components removed from the back of the fireplace will be re-installed onto the top.

1. Remove the screw at the top of the cover & remove the cover.

2. Remove the (4) screws securing the 6 5/8" combustion air intake collar & plate from the fireplace & remove the collar / plate assembly.

3. Remove the (6) screws (3 ea. side) securing the 4" exhaust collar assembly & remove from the fireplace.
REMOVE THE COMBUSTION AIR INTAKE & EXHAUST COVERS FROM THE TOP OF THE FIREPLACE:

NOTE: ALL OF THE COMPONENTS REMOVED FROM THE TOP OF THE FIREPLACE EXCEPT FOR THE COVER WITH KNOCKOUT REMOVED IN STEPS #2 & #3 WILL BE INSTALLED ON THE FIREPLACE BACK.

1. Remove the screw securing the cover on top of the fireplace & remove the cover.

2. Remove the screw securing the heat shield cover (w/ knockout) & remove the cover.

3. Using a tin snips, remove the center knockout section as shown.

4. Remove the (4) screws securing the 6 5/8" combustion air intake cover & remove the cover.

5. Remove the (6) screws securing the 4" exhaust cover and remove the cover.

IMPORTANT:

![Diagram showing the removal of the center knockout section.]

You are now ready to complete the conversion by installing the 4" exhaust & 6 5/8" combustion air intake collars to the top of the fireplace and the 4" exhaust and 6 5/8" combustion air intake covers to the back of the fireplace.

The instructions that follow on page 13 will guide you through this process.
INSTALL THE 4" EXHAUST & 6 5/8" COMBUSTION AIR INTAKE COLLARS TO THE TOP OF THE FIREPLACE.

1. Install the 4" exhaust collar assembly to the top of the fireplace as shown below and secure with the (6) screws previously removed.

2. Install the 6 5/8" combustion air intake collar assembly onto the fireplace top as shown below and secure with the (4) screws previously removed.

3. Insert the tab at the top of the heat shield cover with knocked-out section into the slot above the 6 5/8" combustion air pipe as shown below and secure at the front with (1) screw previously removed.

4. Insert the tabs on the top cover plate into slots at the top of the fireplace & secure with (1) screw (previously removed) as shown below.

INSTALLATION OF TOP VENTING COMPONENTS IS NOW COMPLETE.

THE FOLLOWING SECTION WILL GUIDE YOU THROUGH THE FINAL CONVERSION PROCESS OF INSTALLING THE COVER PLATES TO THE BACK OF THE FIREPLACE.

WARNING: THE COVER PLATES ON THE BACK OF THE FIREPLACE MUST BE INSTALLED.

DO NOT PROCEED WITH THE INSTALLATION OF THIS FIREPLACE WITHOUT COMPLETING THE FINAL CONVERSION PROCESS.
INSTALLING THE COVER PLATES TO THE BACK OF THE FIREPLACE:

1. Install the 4" exhaust cover plate to the back of the fireplace as shown & secure with the (6) screws previously removed.

2. Install the combustion air intake cover plate to the back of the fireplace and secure the (4) screws previously removed.

3. Secure the outer cover to the back of the fireplace as shown by inserting the tabs in the plate into the slots in the back of the fireplace, then securing the cover at the top with (1) screw previously removed.

THE CONVERSION PROCESS IS NOW COMPLETE. PROCEED WITH THE FIREPLACE INSTALLATION.
POSITION THE FIREPLACE

1. Place the fireplace into position. Figure 11.

NOTE: Shown in back vent configuration

NOTE: Shown with optional combustible material stand-off installed. See page 22 of this installation manual.

2. REMOVE THE GLASS ASSEMBLY.
   See Figure 12.
   
   A. Locate the spring-loaded handles securing the glass assembly at the top & bottom of the firebox.

   CAUTION: TO PREVENT THE GLASS ASSEMBLY FROM FALLING FROM THE FIREPLACE AND BECOMING DAMAGED, FOLLOW THESE DIRECTIONS EXACTLY WHEN REMOVING THE GLASS ASSEMBLY.

   B. Pull the handles out, then ‘down’ to release the glass assembly at the bottom.

   C. Pull the handles out, then ‘up’ to release the glass assembly at the top.

   D. Lift the glass assembly off from the front of the fireplace and set aside where it will not be broken.

   E. Remove the log package from the firebox and set aside.

3. VENT SYSTEM INSTALLATION:

Install the vent system components for your specific venting configuration. Follow the vent system manufacturer’s installation instructions in conjunction with the venting requirements in this installation manual.

All firestops, wall thimbles, support brackets, etc. must be used as specified by the vent system manufacturer.

All clearances and venting requirements as specified in this manual must be followed.
Fan Kit #TRF-028 Installation Instructions

**INSTALLATION OF THIS FAN SHOULD BE DONE ONLY BY A QUALIFIED INSTALLER**

**IMPORTANT:** If a fan is going to be installed, it is easier to complete before the millivolt board is connected to the gas line.

The wiring must be done prior to enclosing the sides of the unit. An electrical box, romex connector, duplex receptacle, receptacle cover & screws are included in the fireplace components packet.

This optional fan kit #TRF-028 includes:

1. Right & left fan assemblies with temperature control switch
2. Components package: Speed control with mounting bracket, nut & knob, installation instructions.

**NOTE:** To wall-mount the speed control you will need to purchase: (1) Electrical box (1) Cover / switch plate

**NOTE:** Code approved line voltage wiring 16 gauge or better must be used when wiring this system.

**WARNING:** This appliance is equipped with a three-prong (grounding) plug for protection against shock hazard and should be plugged directly into a properly grounded three-prong receptacle. Do not cut or remove the grounding prong from this plug.

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**FIGURE 13**

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**IMPORTANT:** BLACK & WHITE SPEED CONTROL WIRES SHOULD BE CONNECTED TO THE INCOMING BLACK ELECTRICAL WIRES. DO NOT CONNECT THE WHITE SPEED CONTROL WIRES TO THE NEUTRAL ELECTRICAL WIRE. THIS WILL RESULT IN PERMANENT DAMAGE TO THE SPEED CONTROL AND IT WILL NEED REPLACING. See wiring diagram below.
INSTALLATION INSTRUCTIONS

THE FOLLOWING COMPONENTS MUST BE REMOVED FROM THE FIREPLACE PRIOR TO INSTALLATION OF THIS FAN. REFER TO THE FIREPLACE INSTALLATION MANUAL FOR ASSISTANCE IF NECESSARY.

1. Upper hood, upper louver & lower grill, if installed.
2. Glass assembly.

Note: Millivolt board has been removed for clarity. It is not necessary to remove the millivolt board to install this optional fan kit.

INSTALL THE FANS:

1. Slide the left and right fans through the lower grill opening (right side of the valve) pushing them all the way to the back of the fireplace.
2. Slide the left fan assembly to the left until it stops and slide the right fan assembly to the right until it stops. NOTE: The fans will be behind the legs. Figure 14A.

NOTE: Each fan bracket is held in position by a magnetic strip attached to the bottom of each bracket.

3. Connect the fan wiring by inserting the red connectors on the right fan wires onto the terminals on the left fan assembly. It does not matter which connector is on each terminal. Figure 14B.
4. Install electrical box for the speed control and mount the speed control on a wall, if desired.
5. Install the romex connector and electrical box (included with the fireplace) on the fireplace as shown in figure 14C.
6. Insert 115V wiring (with ground) through the romex connector wire to the receptacle.
7. Secure receptacle into the electrical box.
8. Install the cover onto the electrical box and secure with screw provided.
9. Place the temperature control switch on the bottom of the firebox.
10. Plug cord into receptacle in the electrical box.
11. Turn on/off speed control counter-clockwise until it 'clicks'. This is the 'OFF' position.
12. Turn the speed control 'ON' by turning the knob clockwise past the 'click' - this is the highest setting.
13. Replace the glass assembly.
14. Replace the lower grill, upper louver & upper hood.

NOTE: The fan will not operate unless the speed control has been turned 'ON' and sufficient heat has been applied to the temperature control switch. The fan will turn 'ON' and 'OFF' automatically when the fireplace heats and cools. Adjust fan to desired speed while it is running.

TEMPERATURE CONTROL SWITCH POSITION: Prior to adjusting the temperature control switch, unplug the 3-prong plug on the fan cord from the receptacle. Adjust the position of the temperature control switch to a warmer location under the firebox to turn the fan 'ON' sooner or move it to a cooler location under the firebox to turn the fan 'ON' later. The fan will turn on when the sensor in the temperature control switch reaches 110° F and will turn 'OFF' when the sensors reach 90° F. After adjustment, plug the 3-prong plug on the fan cord into the receptacle.

NOTE: This appliance must be electrically grounded and connected in accordance with local codes, or in the absence of local codes, with the National Electrical Code, ANSI/NFPA 70-Current edition, or the Canadian Electrical Code, CSA C22.1.
RUN THE GAS LINE.

CAUTION: Installation of the gas line must only be done by a qualified person in accordance with local building codes.

GAS CONVERSIONS
If a gas conversion is necessary, one of the following conversion kits must be used:

- Natural Gas Conversion Kit #OCK-338 - used to convert an LP Gas millivolt board to natural gas.
- LP Gas Conversion Kit #OCK-352 - used to convert a Natural Gas millivolt board to LP Gas.

The conversion shall be carried out in accordance with the requirements of the provincial authorities having jurisdiction and in accordance with the requirements of the ANSI Z223.1 installation code.

NOTE: This unit is equipped with a 3/8" x 12" long flexible gas connector and manual shut off valve.

NOTE: The gas line should be run to the point of connection where the shut-off valve and flexible gas line will connect.

CAUTION: The manual shut-off valve or flexible gas tubing must not extend outside of the unit cavity. See the WARNING label affixed to the flexible tubing for additional installation instructions and warnings.

---

NATURAL GAS:

The minimum inlet gas supply pressure: 5.0 inches W.C. (7.0 inches W.C. recommended)
The maximum inlet gas supply pressure: 10.5 inches W.C.
Manifold pressure: 3.5 inches W.C.
Manifold pressure (lo setting): 1.7 inches W.C.

Orifice size: 38 Input: 28,000 BTU/hr. Efficiency: 71.9% AFUE: 72%
Minimum input: 20,000 BTU/hr

LP GAS:

The minimum inlet gas supply pressure: 11.0 inches W.C. (recommended)
The maximum inlet gas supply pressure: 13.0 inches W.C.
Manifold Pressure: 10.0 inches W.C.
Manifold Pressure (lo setting): 5.4 inches W.C.

Orifice size: 52 Input: 28,000 BTU/hr. Efficiency: 74% AFUE: 73%
Minimum input: 21,000 BTU/hr

This fireplace is equipped for use at altitudes of 0-2,000 ft. in the U.S. and 0-4,000 ft. in Canada.

IMPORTANT: The efficiency rating of this appliance is a product thermal efficiency rating determined under continuous operating conditions and was determined independently of any installed system.

NOTE: For high altitude installations consult the local gas distributor or the authority having jurisdiction for proper rating methods.
1. Run the gas line. An accessible shut off valve must be installed up stream from the regulator.

   NOTE: Do not run the incoming gas line in a manner that would obstruct the operation of the optional fan.

2. This unit is designed to accept either a 3/8" or 1/2" gas line approved for gas appliances. Consult local building codes to properly size the gas supply line leading to a 3/8" reduction.

3. A gas line knockout is positioned on either side of the unit for gas line connection.

4. Connect the gas line to the manual shut-off valve.

5. Connect the flexible gas line (installed on the millivolt board valve) to the manual shut off valve.

![IMPORTANT:]

ALL CONNECTIONS WHETHER FIELD OR FACTORY MADE MUST BE CHECKED FOR LEAKS!

NOTE: The appliance and its individual shutoff valve must be disconnected from the gas supply piping system during any pressure testing of that system at test pressures in excess of ½ psi.

NOTE: The appliance must be isolated from the gas supply piping system by closing its individual manual shutoff valve during any pressure testing of the gas supply piping system at test pressures equal to or less than ½ psi.

Pressure check taps for both the manifold (outgoing) & inlet (incoming) pressures are located in front of the gas valve. The top pressure tap is the manifold pressure and the bottom pressure tap is the incoming pressure. Follow instructions on page #25 for checking these pressures.

(H) SECURE THE MILLIVOLT BOARD:

This unit is equipped with the millivolt board, burner, log grate, pilot shield, & cover assembly already installed.

1. Referring to the 'INSTALLING THE MILLIVOLT BOARD' section on pages 28-29, check to ensure that all (6) screws securing the millivolt board are in place and properly tightened.

2. Ensure that the burner tube is properly positioned over the burner orifice.
LOG INSTALLATION

The TRF-500A log set includes 10 logs, 2 bark pcs. & embers. The logs are numbered on the bottom side - refer to the instructions below for proper placement.

1. Position base log #1 onto the log brackets & over the pilot shield so the front of the log is against the backside of the back burner tube.

Press the log down onto the pins protruding from the log brackets. See figure 15A.

2. Position base logs #2 & #3 onto the front log brackets so the front the logs are against the backside of the front burner tube.

Press the logs down onto the pins protruding from the log brackets. See figure 15A

3. Position the embers included with this log set onto the front burner as shown.

4. Position middle logs #4, #5, & #6 onto the base logs as shown in figure 15B.

5. Position logs #7, #9, & #10 as shown in Figure 15C.

6. Position top log #8 as shown in figure 15D. Set the bottom of the log on the right tip of the #9 log and the top of the log against the back refractory panel.

7. Place the (2) bark pieces between the #9 and #10 logs as shown in figure 15D below.
THERMOSTAT - WALL SWITCH - REMOTE INSTALLATION (OPTIONAL).

**CAUTION: DO NOT CONNECT HIGH VOLTAGE (115V) WIRE TO THE GAS VALVE!**

If desired, a thermostat (wireless style available), wall switch or remote control unit may be used to turn the unit off and on. **Only one of these may be installed.** Follow the instructions included with each kit.

**NOTE: INSTALLATION OF A THERMOSTAT, WALL SWITCH OR REMOTE CONTROL SHOULD ONLY BE DONE BY A QUALIFIED INSTALLER.**

**IMPORTANT:** No high voltage (115v) is required to operate any of these systems.

**OPTIONAL:** Disconnect the on/off rocker switch wires from the top & bottom terminals on the gas valve.

**WALL SWITCH / THERMOSTAT USERS:**

Run low-voltage (thermostat) wire from the top and bottom terminals on the gas valve to the desired location of the thermostat or wall switch.

Attach the appropriate connector to each wall switch / thermostat wire and connect to the top and bottom terminals on the gas valve.

**REMOTE CONTROL USERS:**

Follow instructions included with the remote control.

**IMPORTANT:** The insulated cover included with the remote control must be placed over the remote receiver to protect it from overheating.

Thermostat Wiring Diagram

**FIGURE 16A**

**IMPORTANT:** If the ON/OFF rocker switch wires are not disconnected, the rocker switch must be in the ‘OFF’ position if one of these systems is installed on the fireplace.

If the rocker switch is ‘ON’, the fireplace burner will operate until it is turned ‘OFF’ by the rocker switch. A thermostat, wall switch, or remote control will not turn the fireplace ‘OFF’ when it has been turned ‘ON’ by the rocker switch.

The fireplace must be turned ‘ON’ and ‘OFF’ by the same method. **FOR EXAMPLE:** If the fireplace is turned ‘ON’ by the remote control, it must be turned ‘OFF’ by the remote control.

Remote Control Wiring Diagram

**FIGURE 16B**
COMPLETE THE INSTALLATION

1. A) If not previously done, plumb & level the unit and secure the fireplace to the framing using the stud tabs located on the sides of the unit.

B) Use screws (not provided) to secure the unit to the flooring through the holes located in the bottom of the outer box. *IMPORTANT - MOBILE HOME INSTALLATIONS: THE FIREPLACE MUST BE SECURED TO THE FLOOR.*

C) Complete the fireplace walls, and the unit facing.

   IMPORTANT: This fireplace has a 3 1/2" clearance requirement from the top of the fireplace. A combustible material stand-off has been included and must be attached to the fireplace top (see diagram below) when combustible finish material will be used. Attach this stand-off to the top (at the front) by aligning the slots in the stand-off to the corresponding holes in the fireplace top. Secure with the (3) sheet metal screws provided (in fireplace components packet).

   If tile or marble is used around or over the face of the fireplace, we recommend using rock board as a backer at the top of the fireplace instead of the combustible material stand-off.

   **CAUTION:** **ONLY NON-COMBUSTIBLE MATERIAL MUST BE USED FOR A MINIMUM OF 3 1/2" FROM THE TOP OF THE FIREPLACE.**

   The top stand-off / heat shield assembly (see diagram below) is adjustable to accommodate the thickness of finish material (non-combustible only) you are using. To adjust, loosen the screws securing it to the top of the fireplace and slide to desired position. Re-tighten the screws to secure in place.

   **CAUTION: NEVER PERMANENTLY REMOVE THIS ASSEMBLY FROM THE FIREPLACE - IT MUST BE IN SECURED IN PLACE REGARDLESS OF FINISH MATERIAL USED.**

   ![Diagram of fireplace installation details](image)

   **CAUTION:** The surrounding wood chase of the outside wall must be insulated to prevent cold air from entering the room.

2. **THIS STEP SHOULD ONLY BE DONE BY A QUALIFIED INSTALLER OR SERVICE TECHNICIAN:**

   A) Perform lighting and shutdown procedures as described on pages #24-25. This should be done prior to replacing the glass so that any necessary adjustments can be made and proper operation verified.
3. Replace the glass.

A) Place the glass assembly onto the front of the fireplace and secure with the spring-loaded handles FIRST AT THE TOP, THEN AT THE BOTTOM of the firebox. CAUTION: TO PREVENT THE GLASS ASSEMBLY FROM FALLING OFF WHEN INSTALLING ON THE FIREPLACE, SECURE THE TOP GLASS LATCH BRACKETS FIRST, THEN THE BOTTOM.

WARNING: DO NOT OPERATE THIS FIREPLACE WITH THE GLASS ASSEMBLY REMOVED, CRACKED OR BROKEN. Replacement of the glass assembly, part #TRF-007T should be done by a licensed or qualified service person.

4. Upper louver, hood & Lower Grill Installation - Refer to Figures 17A - 17C.

A) Align the hooks (A) in the upper louver to the slots located in the face of the fireplace and set down into position. Figure 17A.
B) Insert the flange at the top of the upper hood into the clips located in the top of the upper air passage. NOTE: This is a fairly tight fit. Figure 17B
C) Align the hooks (B) at the top of the bracket on the lower grill to the slots located in the face of the fireplace (just above the lower air passage). At the same time, align the lower end of the bracket (C) into the slot on the lower flange of the fireplace face. Push the lower grill down to secure in position - Figure 17B. NOTE: The lower grill must be removed to access the gas valve and controls.

Remove:
A) Grasp the bottom of the upper hood at each end and pull the hood out of the clips at the top of the air passage.
B) Lift the upper louver up out of the slots and remove from the fireplace.
C) Lift the lower grill up out of the slots and remove from the fireplace.
LIGHTING & SHUTDOWN

NOTE: Prior to lighting, check all fittings for leakage. This is accomplished by applying soapy water on all connections made. If there is any leakage, bubbles will appear at the point of connection. If bubbles occur, tighten the fittings until the bubbles no longer appear.

IMPORTANT: TEST ALL CONNECTIONS WHETHER FIELD OR FACTORY MADE.

NOTE: The appliance and its individual shutoff valve must be disconnected from the gas supply piping system during any pressure testing of that system at test pressures in excess of ½ psi.

NOTE: The appliance must be isolated from the gas supply piping system by closing its individual manual shut off valve during any pressure testing of the gas line at test pressures equal to or less than 1/2 psig (3.5 kPa).

Pressure check taps for the manifold (outgoing) and inlet (incoming) pressures are located in front of the gas valve. The top pressure tap is the manifold pressure and the bottom pressure tap is the incoming pressure. Follow instructions on page #26 to check these pressures.

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.

1. This appliance has a pilot which must be lighted by hand. When lighting the pilot, follow these instructions exactly.
2. BEFORE LIGHTING, smell all around the appliance for gas. Be sure to smell next to the floor because some gas is heavier that air and will settle on the floor.
3. 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. Forced or attempted repair may result in a fire or explosion, and loss of warranty.
4. 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 which has been under water.

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

DUE TO HIGH SURFACE TEMPERATURES, KEEP CHILDREN, CLOTHING AND FURNITURE AWAY

This appliance needs fresh air for safe operation and must be installed so there are provisions for adequate combustion and ventilation air.

WHAT TO DO IF YOU SMELL GAS:
*Do not touch electrical switches.
*Do not try to light any appliance.
*Do not use any phone in your building.
*Follow the gas supplier’s instructions
*Immediately call your gas supplier from a neighbor’s phone.
*If you cannot reach your gas supplier, call the fire department.

LIGHTING INSTRUCTIONS

Refer to figure 18, page 25.
1. STOP! Read safety information above.
2. To access the gas valve & controls, lift the lower grill up out of the slots and remove from the fireplace.
3. Set the thermostat to the lowest setting. (If installed)
4. Turn off all electric power to the appliance. (Fan)
5. Push in black control knob (A) slightly and turn clockwise \ to "OFF".

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. If you then smell gas, STOP! Follow the safety information above. If you don’t smell gas, go to the next step.
7. Find the pilot - follow metal tube from gas control. The pilot is behind the burner tube.
8. Turn the black control knob (A) on the gas valve counterclockwise \ to "PILOT".

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9. Push in the black control knob all the way and hold in. Press the RED igniter button (B). The pilot will generally light with two or three pushes on the igniter. Hold the knob in for about one (1) minute after the pilot is lit. Release knob and it will pop back out. Pilot should remain lit. If it goes out, repeat steps 5 through 9.

*If knob does not pop out 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.

10. Turn black control knob (A) counterclockwise to "ON".

11. Flip the ON/OFF switch (C) to the "ON" position. If using a thermostat, leave on/off switch ‘OFF’ and set the thermostat to desired setting.

12. Replace the lower grill.

13. Turn on electric power to the fireplace.

**NOTE:** When the unit is initially lit, condensation will appear on the glass, this is normal in all gas fireplaces, and will disappear in one to three minutes.

14. If you wish to turn the burner off, flip the on/off switch to the ‘OFF’ position. If a wall switch has been installed, simply turn it off. If a thermostat has been installed, simply adjust temperature setting. **NOTE:** The pilot will stay lit.

**TO TURN GAS OFF TO APPLIANCE**

1. To access the gas valve & controls, lift the lower grill up out of the slots and remove from the fireplace.
2. Set the thermostat to the lowest setting. (If installed)
3. Turn off all electric power to the appliance if service is to be performed.
4. Push in control knob(A) slightly and turn clockwise to “OFF”. Do not force.
5. Replace the lower grill.

**KEEP BURNER & CONTROL COMPARTMENT CLEAN. SEE INSTALLATION AND OPERATING INSTRUCTIONS ACCOMPANYING APPLIANCE.**

**INITIAL BURN PERIOD**

AN ODOR WILL OCCUR DURING THE FIRST FEW HOURS OF BURNING. THIS IS THE PAINT CURING AND SUBSTANCES USED IN THE MANUFACTURING PROCESS. IT IS RECOMMENDED TO LEAVE THE FAN (IF INSTALLED) OFF DURING THIS PERIOD AS IT WILL SPEED UP THE PAINT CURING PROCESS.

DUE TO THE MAKEUP OF THE LOGS & REFRACTORY, THEY WILL DISCOLOR DURING THE INITIAL BURNER PERIOD. THIS MAY TAKE UP TO 4 HOURS OF BURN TIME. ONCE THE CURING PROCESS IS COMPLETE, THE TRUE COLOR WILL RETURN.

IMPORTANT: **DO NOT BURN THIS FIREPLACE WITHOUT THE GLASS ENCLOSURE PROPERLY IN PLACE.**

**MAKE SURE THE HOMEOWNER IS AWARE OF THIS**

**NOTE:** Children and adults should be alerted to the hazards of high surface temperature and should stay away to avoid burns or clothing ignition. Young children should be carefully supervised when they are in the same room as the appliance.

Clothing or other flammable material should not be placed on or near the appliance.

**NOTE:** THIS FIREPLACE MAY PRODUCE NOISES OF VARYING DEGREE AS IT HEATS AND COOLS TO DUE METAL EXPANSION AND CONTRACTION. THIS IS NORMAL AND DOES NOT AFFECT THE PERFORMANCE OR LONGEVITY OF THE FIREPLACE.
PRESSURE TESTING
MANIFOLD & INLET PRESSURE

IMPORTANT NOTICE: A pressure check tap for both the manifold (outgoing) and inlet (incoming) pressure has been incorporated into the gas valve. The top pressure tap is the manifold pressure and the bottom pressure tap measures the incoming pressure. Follow the instructions below for proper pressure testing procedures.

TO CHECK THE MANIFOLD PRESSURE:

1. Light pilot.
2. Loosen the manifold pressure tap [D] by turning the screw counter-clockwise.
3. Attach manometer to pressure tap using a 5/16" I.D. hose [F].
4. Turn black control knob [A] to the ‘on’ position.
5. Turn the burner on by depressing the rocker switch [C] to expose the ‘red’ and note manometer reading.
6. Turn the rocker switch [C] to the ‘off’ position.
7. Disconnect manometer hose and tighten screw (clockwise). Screw should be snug, do not over tighten.
8. Attach manometer to manifold pressure tap to verify that it is completely sealed. Manometer should read no pressure when the rocker switch is turned on.

NOTE: If manifold pressure reading is within the normal range, an incoming pressure check is not necessary. A too high or too low pressure reading warrants an inlet (incoming) gas pressure check.

TO CHECK THE INLET PRESSURE:

1. Loosen Inlet pressure tap screw [E] by turning screw counter-clockwise.
2. Attach manometer using a 5/16" I.D. hose [F].
3. Light the pilot.
4. Turn the black control knob [A] to the ‘on’ position. (Burner should not come on) and note manometer reading.
5. Turn the rocker switch [C] to the ‘on’ position and check the pressure to ensure that it stays near the maximum inlet pressure.
6. Turn the rocker switch [C] to the ‘off’ position.
7. Turn the pilot to the ‘off’ position.
8. Disconnect hose and tighten screw (clockwise). Screw should be snug, do not over tighten.
9. Relight pilot and turn the control knob [A] to the ‘on’ position. Attach manometer to the inlet pressure tap to verify that it is completely sealed. Manometer should read no pressure.

NOTE: If inlet pressure reading is too high or too low, contact the gas company. Only a qualified gas service technician should adjust the incoming gas pressure.

CAUTION: A LOW PRESSURE READING CAN CAUSE DELAYED IGNITION.
MAINTENANCE REQUIREMENTS

1. The appliance should be inspected at least once a year by a professional service person.

NOTE: INSTALLATION AND REPAIR SHOULD BE DONE ONLY BY A QUALIFIED SERVICE PERSON. THE APPLIANCE SHOULD BE INSPECTED BEFORE USE AND AT LEAST ANNUALLY BY A QUALIFIED SERVICE PERSON. MORE FREQUENT CLEANING MAY BE REQUIRED DUE TO EXCESSIVE LINT FROM CARPETING, BEDDING MATERIALS, ETC. IT IS IMPERATIVE THAT CONTROL COMPARTMENTS, BURNERS AND CIRCULATION AIR PASSAGEWAYS OF THE APPLIANCE BE KEPT CLEAN.

2. The compartment below the firebox (behind the lower grill) must be cleaned at least once a year, more frequent cleaning may be required due to excessive lint from carpeting, bedding materials, or other fibrous materials. It is imperative that the burner be cleaned once a year.

FAN
The fan should be disconnected from electrical current, and cleaned (vacuumed) every six months. The bearings are sealed and require no oiling.

VENT SYSTEM
Annual examination of the venting system by a qualified agency is required.

IF THE VENT-AIR INTAKE SYSTEM IS DISASSEMBLED FOR ANY REASON, REINSTALL PER THE INSTRUCTIONS PROVIDED WITH THE INITIAL INSTALLATION.

The flow of combustion and ventilation air must not be obstructed.

IMPORTANT: ANY SAFETY SCREEN OR GUARD REMOVED FOR SERVICING MUST BE REPLACED PRIOR TO OPERATING THE APPLIANCE.

CAUTION: LABEL ALL WIRES PRIOR TO DISCONNECTION WHEN SERVICING CONTROLS. WIRING ERRORS CAN CAUSE IMPROPER AND DANGEROUS OPERATION. VERIFY PROPER OPERATION AFTER SERVICING.

MILLIVOLT BOARD SYSTEM

1. Annual cleaning of the burner is required. The burner & cover assembly may be removed for easier access.
2. Refer to pages #28-#29 for complete instruction on removing & reinstalling the burner & cover assembly.
6. Visually check for blocked port holes, especially near the pilot. Blocked port holes may cause delayed ignition.
4. Replace the burner cover following instructions on pages #28-#29.
5. Visually check the pilot light and burner when they are burning. The flames should be steady, not lifting or floating.

GLASS CLEANING & REPLACEMENT
- Clean glass only when cool and only with non-abrasive cleansers.
- Do not operate this fireplace with the glass/frame assembly remove, cracked or broken.
- The glass assembly, Part #TRF-07T, shall only be replaced as a complete unit, as supplied by Hussong Mfg. Co., Inc.
- Replacement of the glass & gasket assembly, Part #TRF-07T, must only be performed by a licensed or qualified service person. DO NOT SUBSTITUTE MATERIALS.
- Do not strike or slam glass door assembly.

CAUTION: KEEP THE APPLIANCE AREA CLEAR OF COMBUSTIBLE MATERIALS, SUCH AS GASOLINE AND OTHER FLAMMABLE VAPORS AND LIQUIDS.
MILLIVOLT BOARD REMOVAL / INSTALLATION

NOTE: This fireplace is equipped with the millivolt board, log plate assembly & pilot shield already installed. Follow instructions 'INSTALLING THE BOARD' on page #29 to properly secure the millivolt board in place. Follow these procedures should the millivolt board need replacing or is removed for servicing.

MILLIVOLT BOARD REMOVAL:

CAUTION: If the burner and/or pilot has been burning, the logs and refractory will be hot and continue to hold heat. Use the appropriate protection to avoid burner and place them on a properly protected surface upon removal to avoid damage to flooring or personal property.

1. Turn the black control knob to the 'OFF' position.
2. Shut off the gas supply at the manual shut-off valve.
3. Disconnect the gas line flex tube from the manual shut-off valve.
4. Disconnect any wall switch, remote control or thermostat wires from the top & bottom terminals on the gas valve.
5. Remove the upper hood, upper louver, lower grill & glass assembly. Refer to the instructions in the manual if necessary.
6. Remove the logs and embers from the log plate assembly and set aside on the properly protected surface.
7. Remove the pilot shield.
8. Remove the bottom refractory panels from the log plate assembly.
9. Remove the remaining refractory panels in the following order: left side, top, right side, and back. Set aside for later re-installation.

10. Remove the burner tube by lifting the front of the tube up, off the tabs at each end first, then sliding it to the left until it is off the burner orifice. Figure 20A

11. Grasp the log grate (attached to the log plate) with both hands & lift the front of the log plate assembly up far enough to clear the front of the firebox. Slide the log plate assembly out of the firebox and set aside. Fig. 20B

12. Loosen and remove the (6) screws securing the board. Figure 20C.

13. Carefully lift the board up & remove from the firebox.

Figure 20A

Figure 20B

Figure 20C
MILLIVOLT BOARD INSTALLATION:

NOTE: The millivolt board is fitted with a gasket to seal the millivolt board. Make certain this gasket is properly place around the opening before installing the millivolt board. If the gasket is damaged, a replacement one must be used.

1. Grasp the board with both hands and place inside the firebox, aligning the (6) mounting holes in the board to the corresponding holes in the bottom of the firebox. Secure with the (6) screws previously removed. Refer to figure 20C.
2. Slide the log plate assembly into the firebox as shown in figure 20B, and set down into position. IMPORTANT: The flange at the front of the log plate assembly must be inside the firebox.
3. Install the burner tube by sliding the end with the venturi air shutter over the burner orifice on the millivolt board and at the same time, placing the mounting holes in the front ends of the burner tube over the tabs on the millivolt board as shown in figure 20B. CAUTION: Ensure that the burner orifice is properly positioned into the burner tube.
4. Install pilot shield as shown in figure 20A.
5. Re-install the side, back & top refractory panels. Refer to the installation instructions on page 30.
6. Re-install the bottom refractory panels.
7. Replace the logs, embers & klinkers. Refer to the diagrams attached for proper alignment if necessary.
8. Connect the flexible gas line to the manual shut-off valve.
9. Re-connect any wall switch, remote control or thermostat wires onto the top & bottom terminals on the gas valve.
10. Replace the glass assembly, lower grill, upper single louver & upper hood.
11. Check all connections for gas leaks, whether field or factory made.

IMPORTANT: CHECK ALL CONNECTIONS, WHETHER FIELD OR FACTORY MADE, FOR LEAKS!
**REFRACTORY BRICK PANEL INSTALLATION**

1. Place the back refractory brick panel against the back of the firebox and set it down onto the top of the burner cover as shown in figure 21A.

2. Install the left refractory brick panel against the left side of the firebox as shown in figure 21B.

   **NOTE:** The front of the refractory brick panel should be flush with the front edge of the firebox.

3. Place the top refractory panel into position as shown in figure 21C below. Tilt the back of the panel slightly down and position the remaining right refractory panel against the right side of the firebox & flush with the front edge of the firebox.

4. Re-position the top refractory panel so that the ends rest on top of the left side and right side refractory brick panels as shown in figure 21D below.

5. Replace the bottom refractory panels.

6. Replace the logs & embers.

7. Place the klinkers onto the bottom refractory panels as desired. Figure 21E.
TROUBLE SHOOTING GUIDE

NOTE: The millivolt board includes the following items: Valve, generator, pilot assembly, pilot shield, piezo, electrode, rocker switch, burner, orifice and orifice holder. If any of these items are defective, contact your dealer for the appropriate repair / replacement procedures to follow.

WARNING: DO NOT ATTEMPT TO SERVICE THIS UNIT IF YOU ARE NOT A QUALIFIED INSTALLER OR REPAIRMAN.

1. If the unit fails to ignite a qualified service person should check the unit installation.

2. It is imperative that the control compartment, burner and circulation air passageways of the unit be kept clean. This is necessary to provide adequate combustion and ventilation air.

3. All of the working parts of this unit can be removed at one time. Before removing millivolt board, check for loose wires.

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<td>The nut which holds the piezo in place is loose.</td>
<td>Tighten nut.</td>
</tr>
<tr>
<td>is depressed</td>
<td>Wire on back of piezo button is loose or off.</td>
<td>Put wire back into place.</td>
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<td></td>
<td>Wire from piezo to electrode is loose at electrode.</td>
<td>Reconnect wire.</td>
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<td></td>
<td>Electrode moved out of position.</td>
<td>Realign electrode with 1/8&quot; space between it &amp; the pilot.</td>
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<td>Gas line not purged.</td>
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<td></td>
<td>Not holding black control knob in long enough.</td>
<td>Hold in longer.</td>
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<td></td>
<td>No spark at piezo.</td>
<td>See problem #1.</td>
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<td>Not holding black control knob in long enough.</td>
<td>Hold button in longer to heat thermocouple.</td>
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<td>Thermocouple connection loose.</td>
<td>Check connection on valve and tighten if necessary.</td>
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<td>Pilot hood misdirecting pilot flame from thermocouple.</td>
<td>Check pilot flame location. Flame must be burning on generator and thermocouple.</td>
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<tr>
<td></td>
<td>Refractory panels are not positioned against firebox back &amp; sides.</td>
<td>Secure refractory panel with high-temp sealant.</td>
</tr>
<tr>
<td></td>
<td>Pilot shield not installed or not in proper position.</td>
<td>Install pilot shield or re-position.</td>
</tr>
</tbody>
</table>
4. Burner won't light

- Pilot not lit
- Black control knob not turned 'ON'.
- Rocker switch not turned 'ON'
- Rocker switch wire not connected
  Wall switch, remote control or thermostat not connected properly or turned to wrong setting. See figures 16A & 16B.

5. Burner won't stay lit.

- Generator wires loose on gas valve terminals.
- Generator wire grounded out pinched wires.
- Generator is not producing enough millivolts to sustain burner operation.
- Refractory panels are not positioned against firebox back & sides.

SOLUTION

- Relight pilot
- Turn black control knob to the 'ON' position.
- Depress switch to the 'ON' position.
- Check wiring diagram Figure 22 and ensure that all wires are secure. Connect properly or disconnect and use on/off rocker switch only.
- Reposition wires and tighten screws. See Figure 22 for wiring diagram.
- Screws securing millivolt board may need due to loosening to remove pinched wire.
- Check millivolt reading, replace generator if necessary.
- Secure refractory panel with high-temp sealant.
REPLACEMENT PARTS

Replacement parts are available through your local dealer. Contact them for availability and pricing.

MILLIVOLT BOARD AND PARTS

<table>
<thead>
<tr>
<th>Part</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>TRF-400A</td>
<td>Millivolt Board - Natural Gas</td>
</tr>
<tr>
<td>TRF-401A</td>
<td>Millivolt Board - LP Gas</td>
</tr>
<tr>
<td>700-023</td>
<td>On/Off Rocker Switch</td>
</tr>
<tr>
<td>700-032</td>
<td>Piezo Ignitor</td>
</tr>
<tr>
<td>700-036</td>
<td>Millivolt Generator</td>
</tr>
<tr>
<td>700-039</td>
<td>Hi/Lo Adjustable regulator (Natural Gas)</td>
</tr>
<tr>
<td>700-040</td>
<td>Hi/Lo Adjustable regulator (LP Gas)</td>
</tr>
<tr>
<td>700-053</td>
<td>Natural Gas - Robertshaw Gas Valve</td>
</tr>
<tr>
<td>700-054</td>
<td>LP Gas - Robertshaw Gas Valve</td>
</tr>
<tr>
<td>700-055</td>
<td>Pilot/Generator/Thermocouple - Nat. Gas</td>
</tr>
<tr>
<td>700-056</td>
<td>Pilot/Generator/Thermocouple Assembly-LP Gas</td>
</tr>
<tr>
<td>700-059</td>
<td>Thermocouple (30-second)</td>
</tr>
<tr>
<td>700-060</td>
<td>Pilot Tube with fitting (valve to pilot)</td>
</tr>
<tr>
<td>TRF-030A</td>
<td>Burner Cover</td>
</tr>
<tr>
<td>TRF-035</td>
<td>Burner Tube</td>
</tr>
</tbody>
</table>

FAN - REPLACEMENT ONLY

<table>
<thead>
<tr>
<th>Part</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>TRF-028</td>
<td>Fan Kit with Temperature limit switch &amp; speed control</td>
</tr>
<tr>
<td>404-4</td>
<td>Limit Switch Assembly</td>
</tr>
<tr>
<td>600085</td>
<td>Speed Control</td>
</tr>
</tbody>
</table>

GLASS & GLASS GASKET

<table>
<thead>
<tr>
<th>Part</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>TRF-07T</td>
<td>26&quot; x 35&quot; Glass with gasket</td>
</tr>
<tr>
<td>500-404</td>
<td>1 1/8&quot; Glass gasket w/ adhesive</td>
</tr>
</tbody>
</table>

LOG SET / REFRACTORY PANELS

<table>
<thead>
<tr>
<th>Part</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>TRF-500A</td>
<td>Log Set</td>
</tr>
<tr>
<td>TRF-G900</td>
<td>Refractory Panel Set - Top, Back &amp; Sides</td>
</tr>
<tr>
<td>TRF-G901</td>
<td>Refractory Panel Set - Bottom</td>
</tr>
</tbody>
</table>

*Consult your dealer for information on optional accessories available for this fireplace.

This appliance tested & certified by:
OMNI-Test Laboratories, Inc.
5465 SW Western Avenue
Beaverton, Oregon 97075

Model #56701 Thief River Falls ‘TRF’
September 2004

Manufactured by:
Hussong Mfg. Co., Inc
204 Industrial Park Drive
Lakefield, MN 56150

www.kozyheat.com
KOZY HEAT GAS BURNING FIREPLACE
LIMITED 10 YEAR WARRANTY

Effective July 01, 2003

This Limited 10 Year Warranty will not become effective until the warranty registration form has been completed and mailed to Hussong Manufacturing Co., Inc., P.O. Box 577, Lakefield, MN 56150. This registration form must be received within 30 days of installation. Failure to do so may result in delayed warranty coverage and submission of proof of purchase will be required.

Hussong Manufacturing Co., Inc. warranties to the original purchaser of this Kozy Heat Fireplace, that it is free of defects in materials and workmanship at the time of manufacture.

Subject to the following conditions & requirements, Hussong Manufacturing Co., Inc. extends the following limited warranty under normal use and service, with respect to the Kozy Heat line of gas burning fireplaces.

YEAR 1: Subject to the conditions & requirements listed below, within the first year from date of purchase, Hussong Manufacturing Co., Inc. shall, at its discretion, replace or repair any such defect in material or workmanship, at Hussong Manufacturing Co., Inc.'s expense, including reasonable labor costs to repair or replace the defective component, if a factory pre-authorization is given for the repair.

YEARS 2 - 10: Subject to the conditions & requirements listed below, beginning with the first day of the second year and continuing through the tenth year, Hussong Manufacturing Co., Inc., will at its discretion, provide repair or replacement parts at current list prices for any defect in material or workmanship of components, including optional components and accessories (if available). Hussong Manufacturing Co., Inc. shall not be responsible for any installation, labor, transportation or other indirect costs.

LIMITATION OF LIABILITY

To make a claim under this warranty, the purchaser must first contact the dealer/installer from whom the fireplace was purchased.

This limited warranty will be void if the fireplace is not installed by a qualified installer and according to the installation instructions. Use of unauthorized components will make this warranty null and void.

This limited warranty also is void if the fireplace is not operated, at all times, according to the operating instructions furnished.

This warranty is limited to defects in material and workmanship. It does not apply to any product that has been subject to negligence, misapplication, improper installation. Remote control warranties are covered by Ambient Technologies, Inc., and are excluded from this Limited Warranty.

No person is authorized to extend the time of this warranty or to accept on Hussong Manufacturing Co., Inc.'s behalf any additional obligation of liability connected with the unit.

It is expressly agreed and understood that this warranty is Hussong Manufacturing Co., Inc.'s sole obligation and purchaser's exclusive remedy for defective fireplace equipment. Hussong Manufacturing Co., Inc. shall not be liable for any consequential, incidental or contingent damages whatsoever. The foregoing warranty is exclusive and in lieu of all other expressed warranties. Hussong Manufacturing Co., Inc. shall not be held to implied warranties, including but not limited to the implied warranties of merchantability and fitness for a particular purpose. This warranty replaces all previous warranty policies.

Some states do not allow the exclusion or limitation of incidental or consequential damages or limitations on how long an implied warranty lasts, so the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

Hussong Manufacturing Co., Inc. reserves the right to make changes at any time, without notice, in design, material, specifications and prices. Hussong Manufacturing Co., Inc. reserves the right to discontinue models and products.

WARRANTY CONDITIONS & REQUIREMENTS:

1. You are the original purchaser. This warranty is not transferable.
2. Installation of the fireplace is performed by a qualified installer.
3. Installation and operation must comply with installation and operation instructions.
4. Paint and glass gaskets are covered for 30 days from date of purchase.
5. Components (including glass panels) broken, during shipping, careless handling of components, or defects resulting from improper installation, misuse of the fireplace and components are not covered under this warranty.
6. This warranty does not cover any part of the fireplace or any components which have been exposed to or submerged under water.
7. Hussong Manufacturing Co., Inc. must be notified by the dealer the fireplace was purchased from or a qualified installer or service technician of the defect.
8. Annual service of the fireplace as required in the installation manual, is performed by a qualified installer/service technician.
   (Copies of such service records may be required to claim a warranty.)
9. All previous warranty/service has been performed by a qualified installer or service technician. (Copies of such service records may be required to claim a warranty.)
LIFETIME WARRANTY

THIS LIFETIME WARRANTY COVERAGE WILL BE EXTENDED AS DESCRIBED BELOW PROVIDED ALL WARRANTY CONDITIONS AND REQUIREMENTS ARE MET AS OUTLINED IN THE 10 YEAR LIMITED WARRANTY POLICY.

LIFETIME WARRANTY COVERAGE

LIFETIME WARRANTY IS EXTENDED AS FOLLOWS: Hussong Manufacturing warranties to the original purchaser that the firebox, heat exchanger, fiber logs, burner tube and glass of this Kozy Heat fireplace will not be defective in material or workmanship under normal use and service for as long as you own this product. If any of these components fail due to defects in material or workmanship under normal use and service, Hussong Manufacturing Co., Inc. will, at its sole discretion, repair or replace the defective component. This LIFETIME WARRANTY does not cover any installation, labor, transportation or other indirect costs arising from defective components.

LIMITATION OF LIABILITY

This Lifetime warranty will be void if the fireplace is not installed by a qualified installer and according to the installation instructions. Use of unauthorized components will make this warranty null and void. This lifetime warranty also is void if the fireplace is not operated, at all times, according to the operating instructions furnished. This warranty is limited to defects in material and workmanship of components specified. It does not apply to any product that has been subject to negligence, misapplication, improper installation.

No person is authorized to extend the time of this Lifetime warranty or to accept on Hussong Manufacturing Co., Inc.’s behalf any additional obligation of liability connected with the unit.

Hussong Manufacturing Co., Inc. may fully discharge all obligations with respect to this Lifetime warranty by refunding the wholesale price of the defective component(s).

It is expressly agreed and understood that this Lifetime warranty is Hussong Manufacturing Co., Inc.'s sole obligation and original purchaser's exclusive remedy for defective fireplace equipment. Hussong Manufacturing Co., Inc. shall not be liable for any consequential, incidental or contingent damages whatsoever other than those incurred by Hussong Manufacturing Co., Inc. to repair or replace the defective component. The foregoing warranty is exclusive and in lieu of all other expressed warranties. Hussong Manufacturing Co., Inc. shall not be held to implied warranties, including but not limited to the implied warranties of merchantability and fitness for a particular purpose. This lifetime warranty replaces all previous lifetime warranty policies.

Hussong Manufacturing Co., Inc. reserves the right to make changes at any time, without notice, in design, material, specifications and prices. Hussong Manufacturing Co., Inc. reserves the right to discontinue models and products.

JUNE 1998

TO ACTIVATE THIS LIFETIME WARRANTY COVERAGE, THIS REGISTRATION CARD MUST BE COMPLETED AND MAILED WITH YOUR COMPLETED 10 YEAR LIMITED WARRANTY FORM WITHIN 30 DAYS OF INSTALLATION.

PURCHASER'S NAME: ________________________________

ADDRESS: _______________________________________

INSTALLATION DATE: ____________________________

MODEL #: __________________ SERIAL #: __________

TELEPHONE # __________________

INSTALLER NAME: _______________________________

ADDRESS: ______________________________________

TELEPHONE # __________________

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