



P/N 126737-01 Rev. B 04/2014



P126737-01



Installation and Operation Instructions

Superior™ Custom Series Decorative B-Vent Fireplace Electronic Ignition System

Models

BRT4036TEN	BRT4042TEN	BRT4036TEP	BRT4042TEP
BRT4336TEN	BRT4342TEN	BRT4336TEP	BRT4342TEP
BRT4536TEN	BRT4542TEN	BRT4536TEP	BRT4542TEP

INSTALLER: Leave this manual with the appliance.

CONSUMER: Retain this manual for future reference.

Installateur : Laissez cette notice avec l'appareil.

Consommateur : Conservez cette notice pour consultation ultérieure.

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



WARNING

AVERTISSEMENT



**HOT GLASS WILL
CAUSE BURNS.**

**DO NOT TOUCH GLASS
UNTIL COOLED.**

**NEVER ALLOW CHILDREN
TO TOUCH GLASS.**

**UNE SURFACE VITRÉE CHAUDE PEUT
CAUSER DES BRÛLURES.**

**LAISSER REFROIDIR LA SURFACE VITRÉE
AVANT D'Y TOUCHER.**

**NE PERMETTEZ JAMAIS À UN ENFANT DE
TOUCHER LA SURFACE VITRÉE.**

**EL VIDRIO CALIENTE
CAUSARÁ QUEMADURAS.**

**USTED DEBE NUNCA TOCAR
EL VIDRIO CALIENTE.**

**LOS NIÑOS DEBEN NUNCA
TOCAR EL VIDRIO.**

WARNING: If the information in these instructions is not followed exactly, a fire or explosion may result causing property damage, personal injury or death.

- 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 neighbor's phone. Follow the gas supplier's 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.

AVERTISSEMENT : Assurez-vous de bien suivre les instructions données dans cette notice pour réduire au minimum le risque d'incendie ou d'explosion ou pour éviter tout dommage matériel, toute blessure ou la mort.

- Ne pas entreposer ni utiliser d'essence ni d'autres vapeurs ou liquides inflammables dans le voisinage de cet appareil ou de tout autre appareil.
- **QUE FAIRE SI VOUS SENTEZ UNE ODEUR DE GAZ :**
 - Ne pas tenter d'allumer d'appareil.
 - Ne touchez à aucun interrupteur. Ne pas vous servir des téléphones se trouvant dans le bâtiment où vous trouvez.
 - Appelez immédiatement votre fournisseur de gaz depuis un voisin. Suivez les instructions du fournisseur.
 - Si vous ne pouvez rejoindre le fournisseur de gaz, appelez le service des incendies.
- L'installation et l'entretien doivent être assurés par un installateur ou un service d'entretien qualifié ou par le fournisseur de gaz.

⚠ WARNING: Improper installation, adjustment, alteration, service or maintenance can cause injury or property damage. Refer to this manual for correct installation and operational procedures. For assistance or additional information consult a qualified installer, service agency or the gas supplier.

**NOT FOR USE WITH SOLID FUEL
CHECK LOCAL CODES PRIOR TO INSTALLATION**

SAVE THIS BOOK

This book is valuable. In addition to instructing you on how to install and maintain your appliance, it also contains information that will enable you to obtain replacement parts or optional accessory items when needed. Keep it with your other important papers.

This fireplace may not be installed in manufactured (mobile) housing constructed to HUD standards. The fireplace may be installed in aftermarket, non-HUD manufactured housing provided its installation complies with State and Local Codes and in the absence of these codes complies with the National Fuel Gas Code **ANSIZ223.1 NFPA 54**.


State of Massachusetts: The installation must be made by a licensed plumber or gas fitter in the Commonwealth of Massachusetts.

NOTICE: Young children should be carefully supervised when they are in the same room as the appliance. Toddlers, young children, and others may be susceptible to accidental burns. A physical barrier is recommended if there are to be at-risk individuals in the house. To restrict access to a fireplace or stove, install an adjustable safety gate to keep toddlers, young children, and other at-risk individuals out of and away from hot surfaces.

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SAFETY

 **WARNING:** This product contains and/or generates chemicals known to the State of California to cause cancer or birth defects or other reproductive harm.

IMPORTANT: Read this owner's manual carefully and completely before trying to assemble, operate or service this fireplace. Improper use of this fireplace can cause serious injury or death from burns, fire, explosions, electrical shock and carbon monoxide poisoning.


 **DANGER:** Carbon monoxide poisoning may lead to death!

This fireplace is a vented product. This fireplace will not produce any gas leakage into your home if properly installed. This fireplace must be properly installed by a qualified service person. If this unit is not properly installed by a qualified service person, gas leakage can occur.

Carbon Monoxide Poisoning: Early signs of carbon monoxide poisoning resemble the flu, with headaches, dizziness or nausea. If you have these signs, the fireplace may not have been installed properly. **Get fresh air at once!** Have fireplace inspected and serviced by a qualified service person. Some people are more affected by carbon monoxide than others. These include pregnant women, people with heart or lung disease or anemia, those under the influence of alcohol and those at high altitudes.

Propane/LP gas and natural gas are both odorless. An odor-making agent is added to each of these gases. The odor helps you detect a gas leak. However, the odor added to these gases can fade. Gas may be present even though no odor exists.

Make certain you read and understand all warnings. Keep this manual for reference. It is your guide to safe and proper operation of this fireplace.

 **WARNING:** Any change to this fireplace or its controls can be dangerous.

1. This appliance is only for use with the type of gas indicated on the rating plate. This appliance is not convertible for use with other gases unless a certified kit is used.
2. For propane/LP fireplace, do not place propane/LP supply tank(s) inside any structure. Locate propane/LP supply tank(s) outdoors. To prevent performance problems, do not use propane/LP fuel tank of less than 100 lbs. capacity.
3. If you smell gas
 - shut off gas supply
 - 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 neighbor's phone. Follow the gas supplier's instructions
 - if you cannot reach your gas supplier, call the fire department.
4. Never install the fireplace
 - in a recreational vehicle
 - where curtains, furniture, clothing or other flammable objects are less than 36" from front and 42" from top of fireplace. For side clearances see Figure 6, page 7
 - in high traffic areas
 - in windy or drafty areas
5. This fireplace reaches high temperatures. Keep children and adults away from hot surfaces to avoid burns or clothing ignition. Fireplace will remain hot for a time after shutdown. Allow surfaces to cool before touching.
6. Carefully supervise young children when they are in the room with fireplace.
7. A hearth extension is not required with this appliance. If one is installed, it is for aesthetic purposes only and does not have to meet the standard requirements.
8. Turn fireplace off and let cool before servicing or repairing. Only a qualified service person should install, service or repair this fireplace. Have fireplace inspected annually by a qualified service person.
9. You must keep control compartments, burners and circulating air passages clean. More frequent cleaning may be needed due to excessive lint and dust from carpeting, bedding material, etc. Turn off the gas valve and pilot light before cleaning fireplace.
10. Have venting system inspected annually by a qualified service person. If needed, have venting system cleaned or repaired. See Cleaning and Maintenance, page 21.

SAFETY

Continued

11. Keep the area around your fireplace clear of combustible materials, gasoline and other flammable vapor and liquids. Do not run fireplace where these are used or stored. Do not place items such as clothing or decorations on or around fireplace.
12. Do not use this fireplace to cook food or burn paper or other objects.
13. Do not use any solid fuels (wood, coal, paper, cardboard, etc.) in this fireplace. Use only the gas type indicated on fireplace nameplate.
14. This appliance, when installed, must be electrically grounded in accordance with local codes or, in the absence of local codes, with the *National Electrical Code*, *ANSI/NFPA 70* or the *Canadian Electrical Code*, *CSA C22.1*.
15. Do not obstruct the flow of combustion and ventilation air in any way. Provide adequate clearances around air openings into the combustion chamber along with adequate accessibility clearance for servicing and proper operation.
16. Do not install fireplace directly on carpeting, vinyl tile or any combustible material other than wood. The fireplace must set on a metal or wood panel extending the full width and depth of the fireplace.
17. Do not use fireplace if any part has been exposed to or under water. Immediately call a qualified service person to arrange for replacement of the unit.
18. Do not operate fireplace if any log is broken.
19. Do not use a blower insert, heat exchanger insert or other accessory not approved for use with this fireplace.
20. Provide adequate clearances around air openings.

UNPACKING

The following items are packed inside the firebox. Remove before positioning firebox into framing.

- Transition Collar - For vent connection
- Ceramic Log Pack - Shrink-wrapped on cardboard
- Three (3) plastic bags containing lava rock, pan and ember materials

- Rear Log - Remove two plastic quick ties from around burner and grate
- Grate Stand - Lift off of burner pan

Check all items for any shipping damage. If damaged, promptly inform dealer or distributor where you bought the product. Safely retain these items for later installation.

INTRODUCTION

All 36" and 42" models listed within this manual are vented gas fireplaces that use an electronic control valve and electronic ignition system. A 6" B-Type venting system and a listed type vent cap are not supplied but are required for proper operation. See venting instructions on pages 10 and 11.



WARNING: This gas appliance must not be connected to a chimney flue servicing a solid fuel burning appliance.

Models BRT4036TEN, 4336TEN, 4536TEN, 4042TEN, 4342TEN, 4542TEN are factory equipped for use with natural gas and must be converted when intended for use with propane/LP gas. A respective model PCBE-36 or PCBE-42 conversion kit may be purchased for simple conversion to propane/LP gas. See Accessories, page 25.

BEFORE YOU BEGIN

Before beginning the installation of your appliance, read these instructions through completely.

This INNOVATIVE HEARTH PRODUCTS appliance and its approved components are safe when installed according to this installation manual and are operated as recommended by INNOVATIVE HEARTH PRODUCTS. Unless you use INNOVATIVE HEARTH PRODUCTS approved components tested for this appliance, **YOU MAY CAUSE A FIRE HAZARD!**

The INNOVATIVE HEARTH PRODUCTS warranty will be voided by and INNOVATIVE HEARTH PRODUCTS disclaims any responsibility for the following actions:

- A) Modification of the appliance or any of the components.
- B) Use of any component part not approved by INNOVATIVE HEARTH PRODUCTS in combination with this appliance.
- C) Installation and/or operation in a manner other than instructed in this manual.
- D) The burning of anything other than the type of

INTRODUCTION

Continued

gas approved for use in this gas appliance. The installation must conform with local codes or, in the absence of local codes, with the current *National Fuel Gas Code, ANSI Z223.1/NFPA 54*.

This fireplace complies with the National Safety Standards and is listed and tested by PFS Corporation to *ANSI Z21.50/CSA 2.22* standard as vented gas fireplace.

NOTICE: Decorative product not for use as a heating appliance.

WARNING: Installation of this appliance should be done by a qualified service person well trained in the installation of such appliances. You will also need a building permit from your local Building and Safety Commissioner before installing this appliance; otherwise your insurance co. may not cover this appliance.

CAUTION: Do not connect appliance before pressure testing gas piping. Damage to gas valve may result and an unsafe condition may be caused.

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 1/2 psi (3.5 kPa).

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 1/2 psi (3.5 kPa).

For the purpose of input adjustment two pressure taps (for IN and OUT pressures) are provided on the gas control valve for test gauge connections to the appliance.

SELECTING LOCATION

To determine the safest and most efficient location for your appliance, you must take into consideration the following guidelines:

1. The location must allow for proper clearances (see *Clearances*, page 7).
 2. Consider a location where heat output would not be affected by drafts, air conditioning ducts, windows or doors.
 3. A location that avoids the cutting of joists or roof rafters will make installation easier.
- Figure 1 shows a plan view of a few common locations.

Flush installations are recommended where living space is limited or at a premium and since the space required to enclose the appliance would be located beyond an outside wall, this would also reduce the cutting of joists, roof rafters and such. Check local codes for any restrictions.

Projected installations can extend any distance into the room. A projection may be ideal for a new addition on an existing, finished wall.

Corner installations make use of space that may not normally be used and provides a wider and more efficient range for radiant heat transference.

Internal wall installations provide a discreet option for room separation and can also be ideal as an addition to an existing wall.

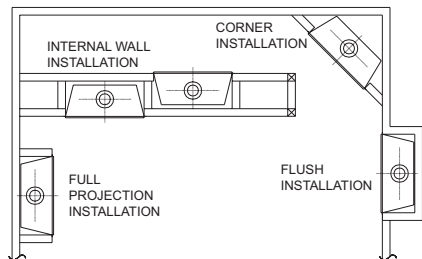
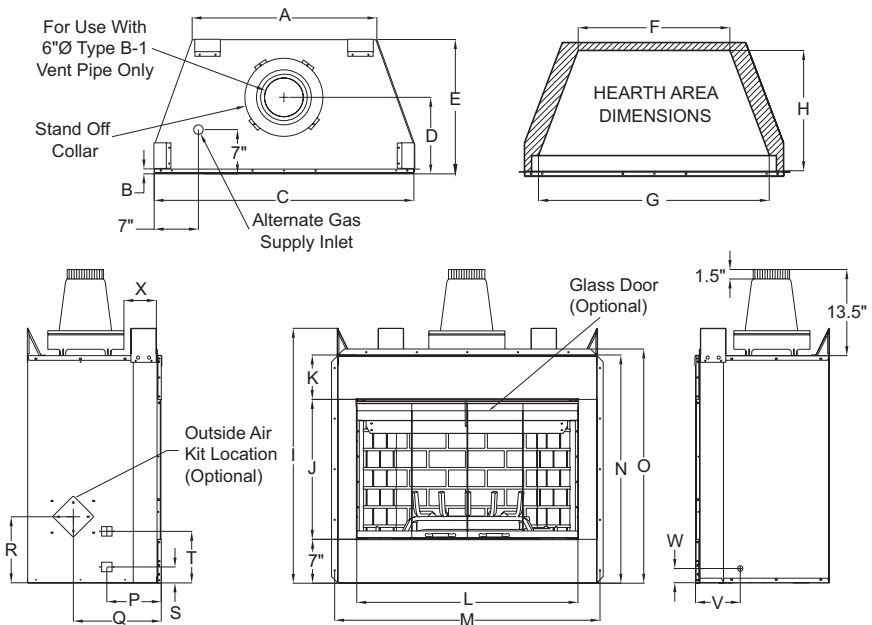


Figure 1 - Possible Locations for Installing Appliance

PRODUCT SPECIFICATIONS

GAS RATING - NATURAL		
	BRT 4036TEN, 4336TEN, 4536TEN	BRT 4042TEN, 4342TEN, 4542TEN
Max. Input Rating:	40,000 Btu/Hr	45,000 Btu/Hr
Manifold Pressure:	3.5" WC (.87 kPa)	3.5" WC (.87 kPa)
Minimum Supply Pressure:	4.5" WC (1.12 kPa)	4.5" WC (1.12 kPa)
Maximum Supply Pressure:	10.5" WC (2.66 kPa)	10.5" WC (2.66 kPa)
Orifice Size:	# 30	# 29
GAS RATING - PROPANE/LP		
	BRT 4036TEP, 4336TEP, 4536TEP	BRT 4042TEP, 4342TEP, 4542TEP
Max. Input Rating:	40,000 Btu/Hr	45,000 Btu/Hr
Manifold Pressure:	10" WC (2.49 kPa)	10" WC (2.49 kPa)
Minimum Supply Pressure:	11" WC (2.74 kPa)	11" WC (2.74 kPa)
Maximum Supply Pressure:	13" WC (3.23 kPa)	13" WC (3.23 kPa)
Orifice Size:	# 52	# 50



	Model 36	Model 42	Model 36	Model 42	Model 36	Model 42
A	29"	36"	I	40 1/4"	Q	13 7/8"
B	5/8"	5/8"	J	21"	R	10 1/2"
C	41"	48"	K	8"	S	2 1/2"
D	12"	14"	L	34 3/4"	T	8 1/8"
E	21 1/4"	23"	M	42"	U	11"
F	22 1/4" (24" w/o Brick)	29 1/4" (31" w/o Brick)	N	36"	V	7"
G	32 5/8" (34" w/o Brick)	39 1/2" (41 1/4" w/o Brick)	O	37"	W	2 1/4"
H	15 3/4" (16 3/4" w/o Brick)	17 3/4" (18 3/4" w/o Brick)	P	8 5/8"	X	5"

Figure 2 - Appliance Dimensions

PRE-INSTALLATION PREPARATION

CLEARANCES

Minimum clearances to combustibles are:

Back and Sides of Outer Surround 0" min.

Drywall to Sides of Front Face

(Nailing Flanges) 0" min.

"B" Vent Surfaces 1" min.

Ceiling to Opening 42" min.

Floor 0" min.

Perpendicular Wall See Figure 6



CAUTION: Do not block required air spaces with insulation or any other material. Do not obstruct effective opening of appliance with any type of facing material.

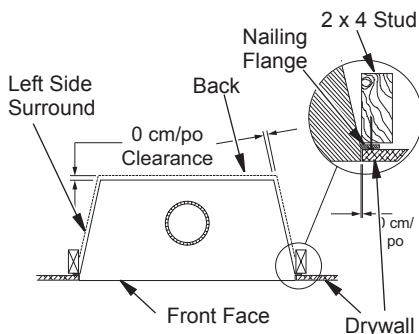


Figure 3 - Minimum Clearances (Top View)

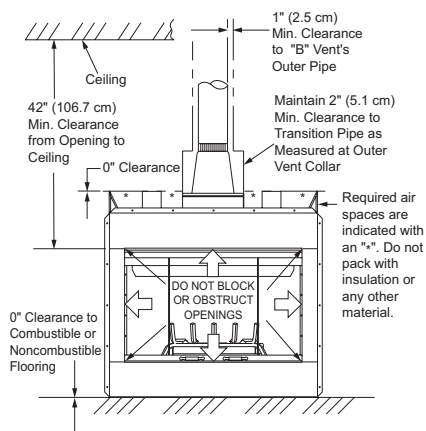
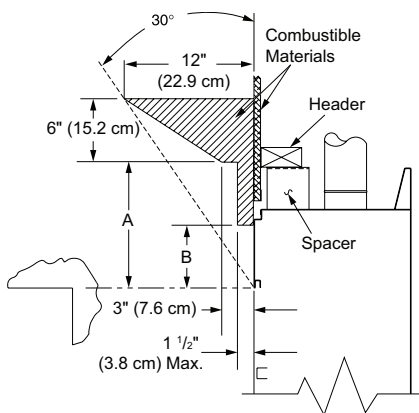


Figure 4 - Minimum Clearances (Front View)

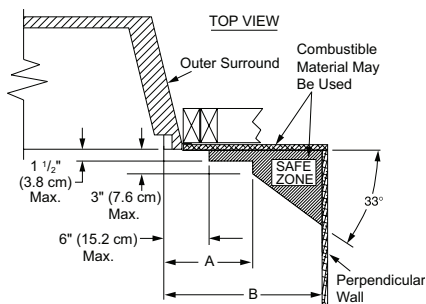
MANTEL CLEARANCES AND WALL DETAILS

A combustible mantle shelf maybe installed a maximum 12" (22.9 cm) from wall. Figures 5 and 6 show the minimum allowable distances from various combustible mantle components in relation to fireplace opening.



	BRT 4036TEN, 4336TEN, 4536TEN, 4036TEP, 4336TEP, 4536TEP	BRT 4042TEN, 4342TEN, 4542TEN, 4042TEP, 4342TEP, 4542TEP
A	14" (35.6 cm)	15" (38 cm)
B	8" (20.3 cm)	9" (22.9 cm)

Figure 5 - Mantel Clearances - Side View (Cross Section)



	BRT 4036TEN, 4336TEN, 4536TEN, 4036TEP, 4336TEP, 4536TEP	BRT 4042TEN, 4342TEN, 4542TEN, 4042TEP, 4342TEP, 4542TEP
A	9" (22.9 cm)	6" (15.2 cm)
B	12" (30.5 cm)	9" (22.9 cm)

Figure 6 - Side Clearances - Top View (Cross Section)

PRE-INSTALLATION PREPARATION

Continued

FRAMING

1. Frame appliance enclosure as illustrated in Figures 7 and 8.

Note: If a wall covering is used to line enclosure, then all measurements must be from surface of covering.

2. Place appliance into framing and secure.

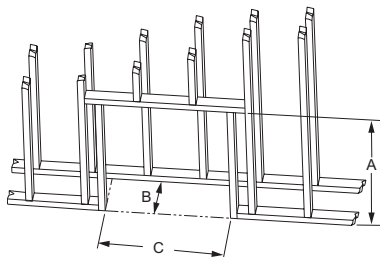
Note: If appliance is to be raised above floor level, a platform must be built to support appliance.

3. Install supply line to appliance using a 1/2" NPT black iron gas line terminating 2 5/16" above bottom of appliance. The gas line must be installed through lower left side access point or alternate access hole in the bottom of appliance (see Figure 19, page 14).

4. Repack insulation around gas line to cover any remaining openings in conduit sleeve. Prepare incoming gas line with teflon tape or pipe joint compound and hook up incoming gas line to flexible gas line.

Note: If 1/2" NPT black iron pipe does not mate with fitting at the end of flexible gas line, remove fitting and replace with a 37 degree flare 3/4"-12, 1/2" NPT (female) fitting.

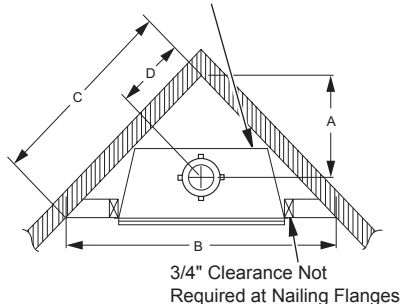
⚠ WARNING: When finishing appliance, do not overlap combustible material onto the black front face. Brick, tile or other noncombustible materials may be applied to the face provided that any gap is between the material used and the face is caulked with a noncombustible caulking.



	36 INCH MODELS	42 INCH MODELS
A	40 3/8" (102 cm)	44 3/8" (112 cm)
B	21 3/8" (54.3 cm)	23 1/8" (58.7 cm)
C	41 1/4" (104.8 cm)	48 1/4" (122.6 cm)

Figure 7 - Rough Opening for Installing in Wall

These Dimensions Allow for a 3/4" Clearance at Sides and Back of Fireplace. However, 0" Clearance is Permitted



	BRT 4036TEN, 4336TEN, 4536TEP, 4036TEP, 4336TEP, 4536TEP	BRT 4042TEN, 4342TEN, 4542TEP, 4042TEP, 4342TEP, 4542TEP
A	24 1/2" (62.2 cm)	27 9/16" (70 cm)
B	73 7/8" (187.6 cm)	83 7/8" (213 cm)
C	52 3/16" (132.6 cm)	59 5/16" (150.6 cm)
D	17 1/4" (43.8 cm)	19 1/2" (49.5 cm)

Figure 8 - Corner Installation Guidelines

INSTALLING TRANSITION PIPE AND STARTER COLLAR

The transition pipe and starter collar shown in Figure 9 are supplied with fireplace, unattached and ready for installation. Remove starter collar and set aside. Slide transition pipe over vent collar and attach with a minimum of three screws. Replace starter collar over transition pipe and attach using four screws located on leg stands (five used on model M42E). To install B-vent piping, slide first piece of B-vent over transition pipe and attach with either a minimum of two screws or other means approved by the vent manufacturer.

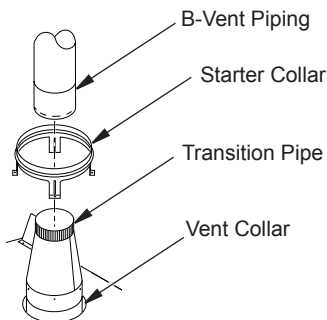


Figure 9 - Installing Transition Pipe and Starter Collar

REQUIREMENTS FOR THE COMMONWEALTH OF MASSACHUSETTS

For all side wall horizontally vented gas fueled equipment installed in every dwelling, building or structure used in whole or in part for residential purposes, including those owned or operated by the Commonwealth and where the side wall exhaust vent termination is less than seven (7) feet above finished grade in the area of the venting, including but not limited to decks and porches, the following requirements shall be satisfied:

INSTALLATION OF CARBON MONOXIDE DETECTORS

At the time of installation of the side wall horizontally vented gas fueled equipment, the installing plumber or gas fitter shall observe that a hard wired carbon monoxide detector with an alarm and battery backup is installed on the floor level where the gas equipment is to be installed. In addition, the installing plumber or gas fitter shall observe that a battery operated or hard wired carbon monoxide detector with an alarm is installed on each additional level of the dwelling, building or structure served by the side wall horizontal vented gas fueled equipment. It shall be the responsibility of the property owner to secure the services of qualified licensed professionals for the installation of hard wired carbon monoxide detectors.

In the event that the side wall horizontally vented gas fueled equipment is installed in a crawl space or an attic, the hard wired carbon monoxide detector with alarm and battery back-up may be installed on the next adjacent floor level.

In the event that the requirements of this subdivision can not be met at the time of completion of installation, the owner shall have a period of thirty (30) days to comply with the above requirements; provided, however, that during said thirty (30) day period, a battery operated carbon monoxide detector with an alarm shall be installed.

Approved Carbon Monoxide Detectors

Each carbon monoxide detector as required in accordance with the above provisions shall comply with NFPA 720 and be ANSI/UL 2034 listed and IAS certified.

SIGNAGE

A metal or plastic identification plate shall be permanently mounted to the exterior of the building at a minimum height of eight (8) feet above grade directly in line with the exhaust vent terminal for the horizontally vented gas fueled heating appliance or equipment. The sign shall read, in print size no less than 1/2" in size, "GAS VENT DIRECTLY BELOW. KEEP CLEAR OF ALL OBSTRUCTIONS".

INSPECTION

The state or local gas inspector of the side wall horizontally vented gas fueled equipment shall not approve the installation unless, upon inspection, the inspector observes carbon monoxide detectors and signage installed in accordance with the provisions of 248 CMR 5.08(2)(a) 1 through 4.

EXEMPTIONS: The following equipment is exempt from 248 CMR 5.08(2)(a) 1 through 4:

- The equipment listed in Chapter 10 entitled "Equipment Not Required To Be Vented" in the most current edition of NFPA 54 as adopted by the Board; and
- Product Approved side wall horizontally vented gas fueled equipment installed in a room or structure separate from the dwelling, building or structure used in whole or in part for residential purposes.

MANUFACTURER REQUIREMENTS

Gas Equipment Venting System Provided

When the manufacturer of Product Approved side wall horizontally vented gas equipment provides a venting system design or venting system components with the equipment, the instructions provided by the manufacturer for installation of the equipment and the venting system shall include:

- Detailed instructions for the installation of the venting system design or the venting system components; and
- A complete parts list for the venting system design or venting system.

Gas Equipment Venting System Not Provided

When the manufacturer of a Product Approved side wall horizontally vented gas fueled equipment does not provide the parts for venting the flue gases, but identifies "special venting systems", the following requirements shall be satisfied by the manufacturer:

- The referenced "special venting system" instructions shall be included with the appliance or equipment installation instructions; and
- The "special venting systems" shall be Product Approved by the Board, and the instructions for that system shall include a parts list and detailed installation instructions.

A copy of all installation instructions for all Product Approved side wall horizontally vented gas fueled equipment, all venting instructions, all parts lists for venting instructions, and/or all venting design instructions shall remain with the appliance or equipment at the completion of the installation.

VENTING INSTALLATION

A B-type venting system must be connected to appliance for venting to the outside of building.

The following section is provided as a guide to a standard B-type vent installation.

Standing codes requirements concerning B-type vent installations may vary within your state, province or local codes jurisdiction. Therefore, it is recommended that you check with your local building codes for specific requirements or in absence of local codes, follow Section 7.0 of the current *National Fuel Gas Code ANSI Z223.1/NFPA 54*.

This gas appliance must be vented to the outdoors only and may not be terminated into an attic space or into a chimney flue servicing a solid-fuel burning appliance.

This appliance may be vented through a manufactured chimney system or a masonry chimney using a B-vent adapter or a chimney liner system if all are listed, inspected and approved by local codes and/or building authorities.

The examples shown in Figure 10, page 11 are typical of most B-vent installations and codes practices.

Example 1: Shows the minimum allowable system height and lateral offset for a 60° or greater inclination. Code specifies that offsets at 60° or greater are considered horizontal and must follow the 75% rule for lateral to total vertical system height. Codes also allow only one offset in the total system when

at 60° or greater. The total vertical height in this example represents the minimum height of 8 feet and therefore the allowable lateral is 6 feet when the 75% rule applies. If the lateral length must exceed 75% then the system must be sized in accordance with the Category I venting tables.

Example 2: Shows a multiple offset each at 45° of inclination. Multiple offsets are permitted if they do not exceed 45° of inclination. The total lengths of the two offsets are not required to meet the 75% allowable rule.

Example 3: Shows a single offset at 45° of inclination and therefore the lateral length at 10 feet of offset does not have to meet the 75% rule.

In each case the offsets must be supported and firestops must be positioned wherever the vent must pass through a sub-floor, ceiling joist or an attic overhang. The vent pipe must terminate vertically into a listed type vent cap and extend a sufficient height through an approved roof flashing, roof jack or a roof thimble (38FST recommended). At all points the listed clearances must be maintained.

Vent terminations must be located in accordance with height and proximity rules of NFPA No. 54. These rules apply to vents at 12" diameter or less and require a minimum height in accordance with the roof pitch and a minimum of 8 ft. distance from a vertical wall or obstruction (see Figure 11, page 11).

IMPORTANT NOTICE

NFPA 54 defines minimum space requirements for the installation of this appliance. This fireplace must be installed in an unconfined space with a minimum of 50 cubic feet per 1,000 BTUs of gas output. Therefore 36" models require 2,650 cubic feet, 42" models require 3,100 cubic feet and 50" models require 3,300 cubic feet. If the space you wish to install the fireplace does not meet these requirements NFPA 54 details several actions that may be taken.

VENTING INSTALLATION

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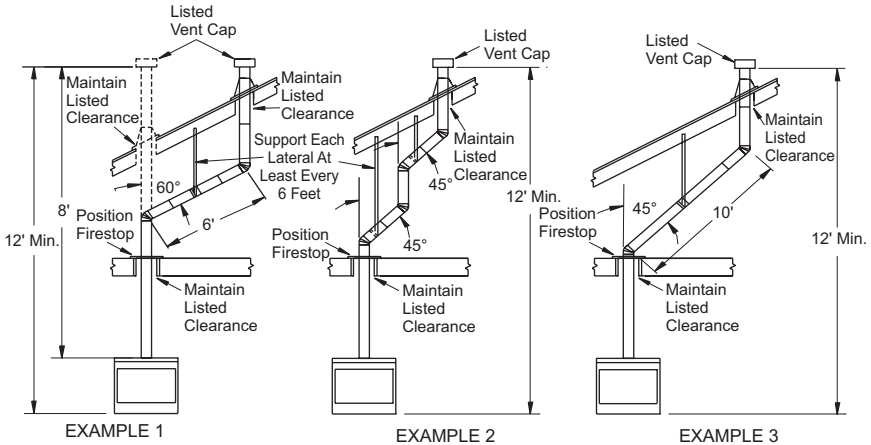


Figure 10 - Typical B-Vent Configuration

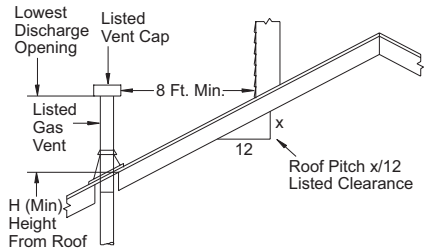
If venting horizontally through a side wall becomes necessary, a listed thimble approved for use with B-type vent must be used. Check with your local codes before venting through a side wall.

Some codes areas allow the use of existing B-type vent systems if the system is at or above the recommended diameter of the flue, in this case 6".

The flue connection must be made using listed B-type connectors and the existing system must be code inspected for damage and proper installation.

It is not recommended that this appliance be common vented with an existing gas burning appliance. However, if it becomes necessary to common vent this appliance, the venting system must be sized and configured in accordance with the common venting guides Appendix G of the current *National Fuel Gas Code ANSI Z223.1/NFPA 54*.

Note: Before connecting this appliance to an existing vent system or a common venting system consult with your local architect, planner or building official.



Roof Pitch	H (Min.) Feet	Meter
Flat to 6/12	1.0	0.30
6/12 to 7/12	1.25	0.38
Over 7/12 to 8/12	1.5	0.46
Over 8/12 to 9/12	2.0	0.61
Over 9/12 to 10/12	2.5	0.76
Over 10/12 to 11/12	3.25	0.99
Over 11/12 to 12/12	4.0	1.22
Over 12/12 to 14/12	5.0	1.52
Over 14/12 to 16/12	6.0	1.83
Over 16/12 to 18/12	7.0	2.13
Over 18/12 to 20/12	7.5	2.27
Over 20/12 to 21/12	8.0	2.44

Figure 11 - B-Vent Terminations

WARNING: This appliance must be properly connected to a system and must not be connected to a chimney flue servicing a separate solid fuel burning appliance.

VENTING INSTALLATION

Continued

CHECKING FOR PROPER VENTING

After completing and checking electrical, gas and vent connections, follow the lighting instructions and allow the main burner to run for approximately 5 minutes. Hold a lighted match or cigarette near the top edge of fireplace opening and play it along entire length of opening (see Figure 12). Proper venting should tend to draw the flame or smoke into the appliance. Improper venting or escaping of spillage of burned gas, is indicated when the match flickers or goes out. Smoke from a cigarette will also tend to disperse away from the appliance.

If the appliance is found to be improperly venting, shut it off and notify your installer or a qualified service agency to inspect the venting system.

NOTICE: This appliance is equipped with a vent safety shutoff switch which will shut down the appliance in the case of a venting problem. Do not bypass the vent safety switch. If the appliance should shut down, contact a qualified installer, service agency or your gas supplier to have the vent inspected before operating.

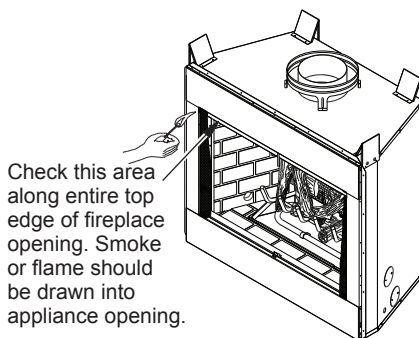


Figure 12 - Checking for Spillage

INSTALLATION

WALL SWITCH INSTALLATION

The installation of a wall switch allows you to activate the gas control valve and turn the fireplace on and off. The wall switch is to be connected to the incoming 120 volt regular household wiring that supplies electricity to the fireplace. Refer to wiring diagram in this manual on page 22.

OPTIONAL REMOTE CONTROL INSTALLATION (Model WRC)

Note: If using optional wireless hand-held remote control, wall switch must be in the ON position to be operational. The remote control then becomes the switching mechanism for fireplace operation.

1. Remove front refractory access panel by lifting up and angling out of firebox opening (see Figure 13).
2. The WRC model receiver does not require a battery. Receiver can be installed by plugging the short extension cord into fireplace receptacle. Plug receiver unit into extension cord. Plug ignition module plug into receiver unit (see Figure 14).

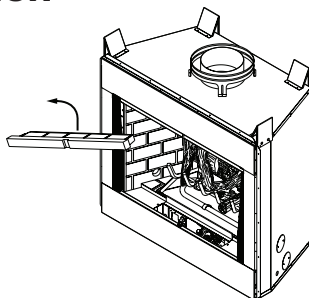


Figure 13 - Removing Front Refractory Access Panel

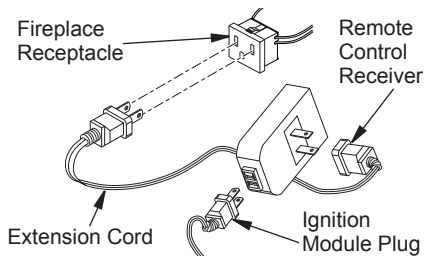


Figure 14 - Installing WRC Remote Receiver

INSTALLATION

Continued

3. Activate remote handset battery by removing insulating tab on back of handset (see Figure 15). Battery is included pre-installed.
4. Once the battery is activated unit is ready to use.
5. Replace front refractory access panel.

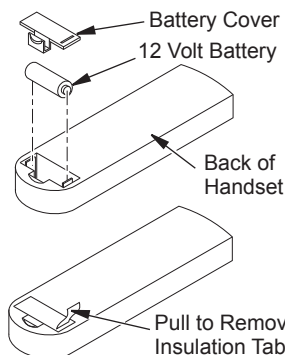


Figure 15 - Installing Battery into Back of Handset

GAS LINE HOOK-UP

WARNING: Gas line hookup should be done by your gas supplier or a qualified service person.

WARNING: Before you proceed, make sure your gas supply is OFF.

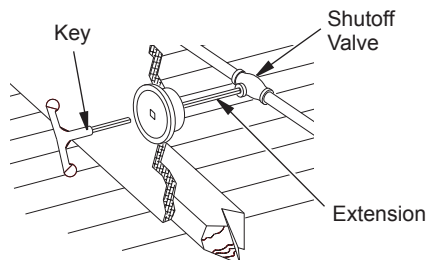
A manual shutoff valve has been included in the appliance's gas supply system. You may consider installing an extra gas shutoff valve outside appliance's enclosure (check with local codes) where it can be accessed more conveniently with a key through a wall as shown in Figure 16.

In conformance with local codes, route a 1/2" NPT gas line to appliance through hole in left side of firebox or sub-floor as shown in Figure 17.

CAUTION: Do not kink flexible gas line.

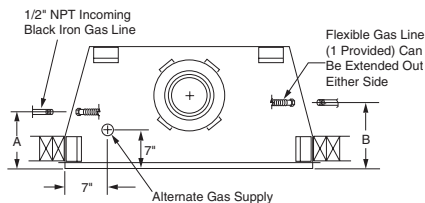
INNOVATIVE HEARTH PRODUCTS recommends that a black iron gas line be routed from the gas source, through a sediment trap (shown in Figure 18) and into appliance. Once connected through appliance, a flexible gas line may be used for ease of installation to gas control valve (see Figure 19, page 14).

Before connecting black iron gas line to inside of appliance a sediment trap must be included outside appliance between gas line and gas shutoff valve. It must extend down 3" beyond center of pipe. Prepare incoming black iron gas line with teflon tape or pipe joint compound (Check with local building codes).



Typical Exterior Wall Gas Shutoff Installation

Figure 16 - Manual Shutoff Valve Installation



	BRT 4036TEN, 4336TEN, 4536TEN, 4036TEP, 4336TEP, 4536TEP	BRT 4042TEN, 4342TEN, 4542TEN, 4042TEP, 4342TEP, 4542TEP
A	8 5/8" (21.9 cm)	10 1/2" (26.7 cm)

Figure 17 - Routing Incoming Gas Line

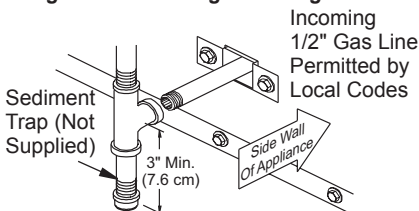


Figure 18 - Sediment Trap

INSTALLATION

Continued

⚠ CAUTION: Compounds used on threaded joints of gas piping shall be resistant to the action of Liquefied Petroleum (LP or propane) and should be applied lightly to ensure excess sealant does not enter the gas line.

⚠ WARNING: All gas piping and connections must be tested for leaks after the installation is completed.

After ensuring that gas valve is on, apply a commercial leak detection solution to all connections and joints. If bubbles appear, leaks can be detected and corrected.

Do not use an open flame for leak testing and do not operate any appliance if a leak is detected.

Complete your gas installation by connecting incoming gas line with flexible gas line. Secure tightly with wrench but **DO NOT OVERTIGHTEN**.

EMBER AND PAN MATERIAL PLACEMENT

1. Open bag(s) of vermiculite and fill entire burner pan until burner tube is completely covered (see Figure 20).
2. Smooth pan material just even with edges of burner pan.
3. Remove ember material from bag and flatten small amounts into quarter size pieces and lay on top of surface of pan material (see Figure 21).
4. Place just enough to cover entire surface and leave about a 1/2" gap under lower grate members to allow air to flow (see Figure 22, page 15).

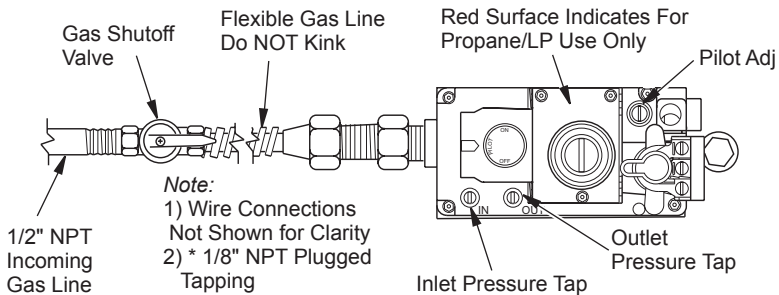


Figure 19 - Connecting Flexible Gas Line to Millivolt Valve

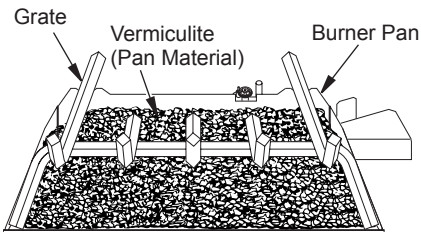


Figure 20 - Fill Entire Burner Pan with Vermiculite

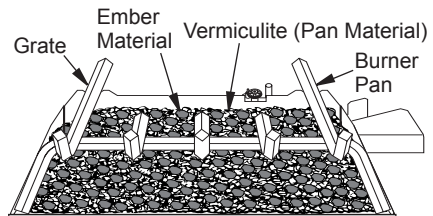


Figure 21 - Ember Material on Surface of Pan Material (Vermiculite)

INSTALLATION

Continued

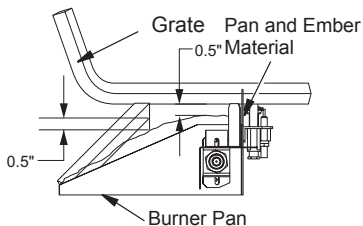


Figure 22 - Pan and Ember Material Clearances

LOG PLACEMENT FOR MODEL BRT 4036TEN 4336TEN, 4536TEN, 4036TEP, 4336TEP, 4536TEP

1. Place small front right log (log 1) on right front of grate as shown in Figure 23.
2. Place large back log (log 2) onto grate making sure notches rest over grate as shown in Figure 23.
3. Place log 3 into notch on log 2, resting front end on top of log 1 (see Figure 24).
4. Place upper end of log 4 into notch on log 2 as shown in Figure 24. Rest lower end of log 4 onto middle grate finger as shown in Figure 25.
5. Place upper end of log 5 into notch on left of log 2 (see Figure 25). Rest lower end of log 5 on grate as shown in Figure 26.
6. Insert lower end of log 6 between first two grate fingers as shown in Figure 26 and position upper end of log 6 into notched area on front of log 2 as shown in Figure 26.

As an option to enhance the look of the hearth, you may place lava rock provided around front and sides of burner.

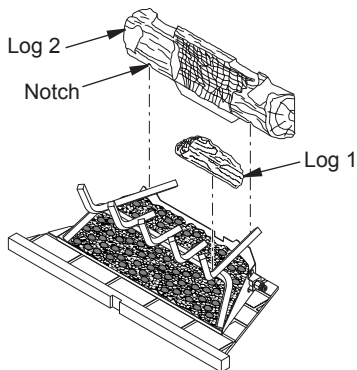


Figure 23 - Installing Logs 1 and 2

NOTICE: Do not put lava rock inside the burner pan or around the air mixer fitting. Placing lava rock inside the burner pan or blocking the openings of the propane/LP air mixer could cause performance problems.

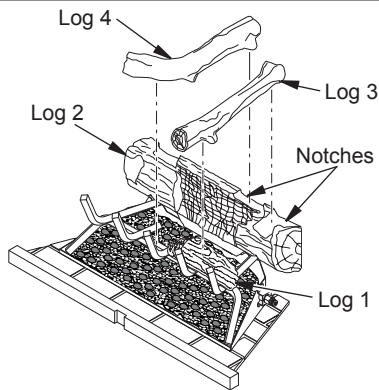


Figure 24 - Installing Logs 3 and 4

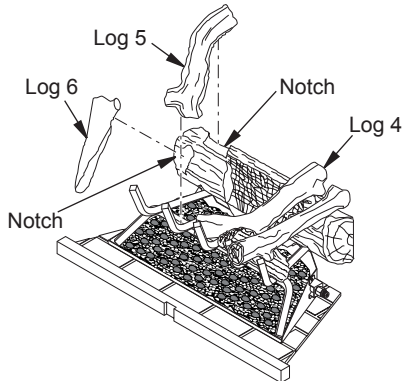
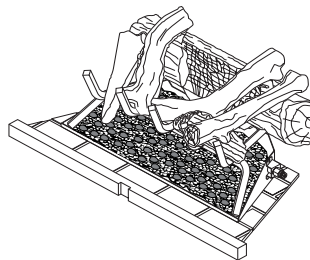


Figure 25 - Installing Logs 5 and 6



**Figure 26 - Logs Installed for
BRT4036TEN/TEP, BRT4336TEN/TEP and
BRT4536TEN/TEP Models**

INSTALLATION

Continued

LOG PLACEMENT FOR MODEL BRT 4042TEN, 4342TEN, 4542TEN, 4042TEP, 4342TEP, 4542TEP

1. Place large back log (log 1) onto grate making sure notches rest over grate (see Figure 27).
2. Insert lower end of log 2A between first two grate fingers and position upper end into notch on front of log 1. See Figure 27. Place log 2B on front right side of grate as shown in Figure 27.
3. Place log 3 into notch on top left of log 1, resting lower end on left two grate fingers (see Figure 28).
4. Place upper end of log 4 into notch on log 1 as shown in Figure 28. Rest lower end of log 4 on the middle grate finger as shown in Figure 29.

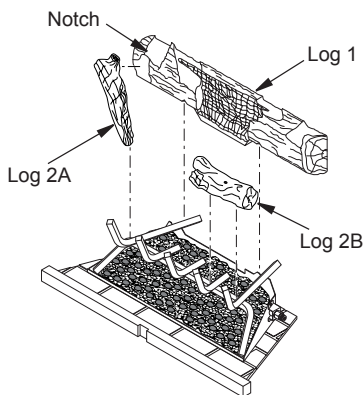


Figure 27 - Installing Logs 1, 2A and 2B

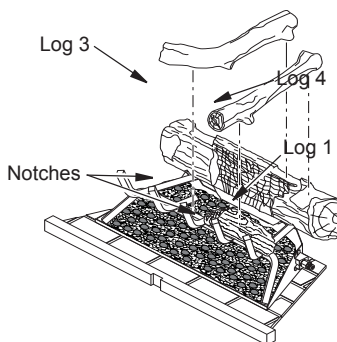


Figure 28 - Installing Logs 3 and 4

5. Place upper end of log 5 into notch on top inner right of log 1 (see Figure 29). Rest lower end of log 5 on middle grate finger as shown in Figure 30.
6. Place log 6 into notch on top right of log 1 (see Figure 29). Rest lower end of log 6 on top of log 2B (see Figure 30).

As an option to enhance the look of the hearth, you may place lava rock provided around front and sides of burner pan.

NOTICE: Do not put lava rock inside the burner pan or around the air mixer fitting. Placing lava rock inside the burner pan or blocking the openings of the propane/LP air mixer could cause performance problems.

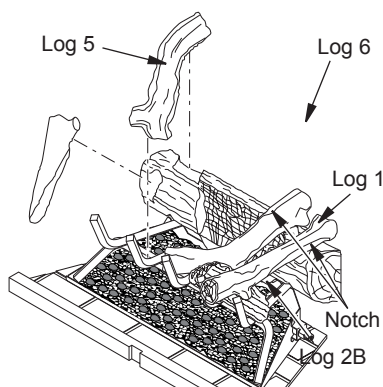


Figure 29 - Installing Logs 5 and 6

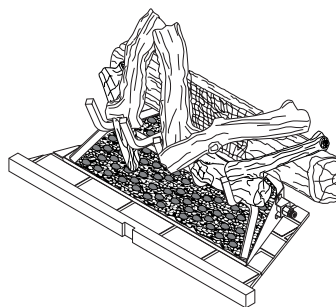


Figure 30 - Logs Installed for
BRT4042TEN/TEP, BRT4342TEN/TEP and
BRT4542TEN/TEP Models

INSTALLATION

Continued

COMBUSTION AIR KIT MODEL AK4 (OPTIONAL)

The outside air kit may be installed on the left side of fireplace only. The vent can be installed through any outside wall a minimum of three feet below fireplace termination cap. The handle to operate damper door for outside air inlet will be located inside left "screen pocket" of firebox (see Figure 31). Pull handle to open or push to close.

CAUTION: Air inlet ducts are not to terminate in attic space.

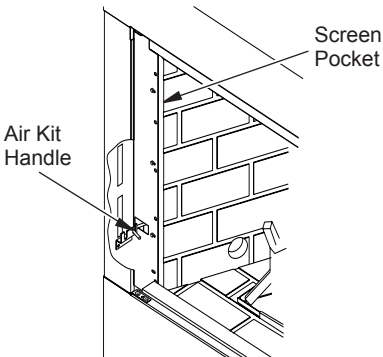


Figure 31 - Air Kit Handle Location

APPLIANCE ENCLOSURE

Before finishing enclosure around appliance, inspect all joints around outer surround. Any gaps between nailing flanges and framing should be sealed with noncombustible insulation or caulking.

If appliance is mounted on a raised platform, it must be a continuous surface and not on blocks without a solid surface. This will prevent entry of cold air by means of conduction through the total bottom of appliance (see Figure 32).

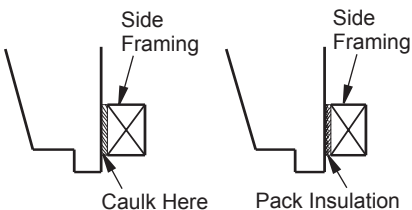


Figure 32 - Sealing Between Appliance and Framing

INSTALLING OPTIONAL GLASS DOOR ACCESSORY

CAUTION: Use only glass doors certified for use with this appliance.

Note: Glass door may be heavy for some individuals. If this is the case, please request help if needed.

The BRT4036, BRT4336, BRT4536, BRT4042, BRT4342 and BRT4542 B-vent fireplaces are approved for use with optional bi-fold glass doors (see [Accessories](#), page 25). Glass panels may be ordered and installed anytime after fireplace installation is complete.

Follow these steps to install left and right panels:

1. With handle at the bottom, completely fold panel on its hinges.
2. With handle facing center of firebox opening, insert lower pivot pin on glass door panel into hole in pivot plate on bottom edge of fireplace opening (see Figure 33).
3. Keeping folded door tilted, slide upper two pins into guide track found under upper facial edge of firebox opening.
4. Tilt glass assembly fully vertical until outer pivot pin snaps into mounting hole in upper spring clip (see Figure 33).
5. Once top and bottom pins are secured, unfold door into the closed position.

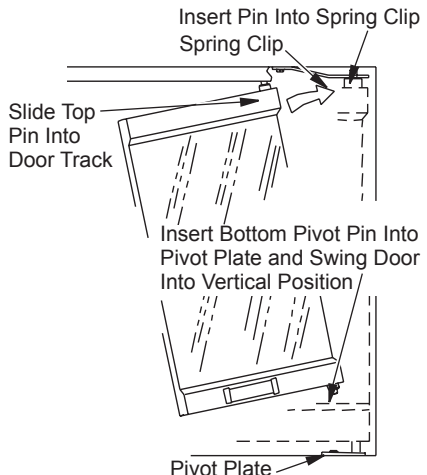


Figure 33 - Installing Optional Glass Door

INSTALLATION

Continued

- Repeat process for opposite door assembly.
- To adjust doors, slide them partially open. Using a screwdriver, loosen hold-down screws in the spring clip (see Figure 34) and pivot plate.
- Close both doors until evenly joined at the middle and note gap at outer edges of face.
- Reopen one door at a time and retighten upper and lower hold-down screws.
- Repeat process until both doors are evenly joined, spaced and working freely.

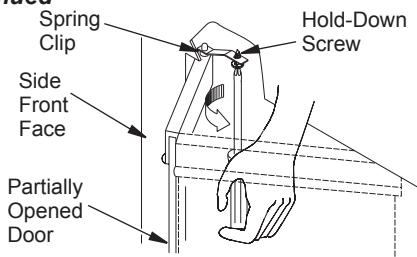


Figure 34 - Adjusting Glass Doors



CAUTION: The glass panels become very hot while the appliance is operating. Do not attempt to adjust or clean the glass doors until the appliance has fully cooled.

The doors may be removed for replacement or cleaning as follows:

- Partially open door and press up on upper spring clip with a screw driver until outer top pivot pin is free of clip.
- Fully fold frame assembly and slide upper edge towards center of firebox opening until guide pins are free of frame rail (see Figure 35).

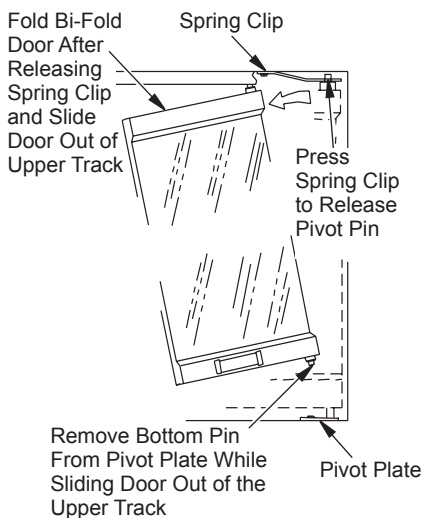


Figure 35 - Removing Glass Doors



CAUTION: Always operate the appliance with the doors either fully opened or fully closed. Operating the appliance with the doors partially open can result in improper venting of flue products.

WARNING: Discontinue use of the appliance immediately if doors are damaged and contact a qualified installer for repair. Only doors certified with the appliance shall be used.



WARNING: Do not slam or strike doors. Damage can result in a hazardous condition.

OPENING VENT DAMPER

Vent damper must be locked in the full open position before operating fireplace. If vent damper is not open, fireplace will not light.

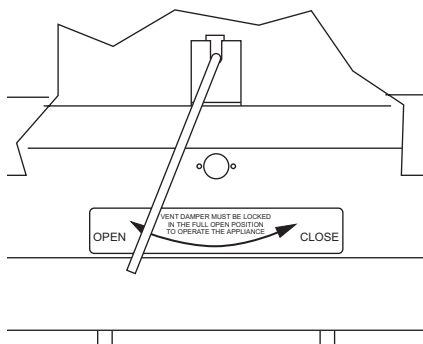


Figure 36 - Opening Vent Damper

OPERATION

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 that is equipped with an ignition device which automatically lights the pilot. Do not light the pilot by hand.



B. **BEFORE LIGHTING** smell all around the appliance area 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.
- If you cannot reach your gas supplier, call the fire department.

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 or gas supplier. 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.

1. STOP! Read the safety information, column 1.
2. Turn wall switch (if installed) to the OFF position.
3. Turn off all electric power to appliance.
4. Place damper in full open position.
5. Fully open glass doors if installed.
6. Remove front refractory brick access panel.
7. Turn equipment shutoff valve clockwise  to the OFF position (see Figure 37).
8. 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, column 1. If you don't smell gas, go to the next step.
9. Turn equipment shutoff valve counter-clockwise  to the ON position. Do not force.
10. Replace front refractory brick access panel.
11. Fully close glass doors if installed.
12. Turn on all electric power to appliance.
13. Turn Wall switch to the ON position.
14. Visually locate pilot. Ignitor should begin to spark and main burner should ignite once flame appears at pilot.

- If lighting appliance for the first time each season, it may take several attempts before supply gas can reach pilot and main burner.
- If appliance will not stay lit after several attempts, follow instructions in To Turn Off Gas To Appliance, and call your service technician or gas supplier.

LIGHTING INSTRUCTIONS

NOTICE: During initial operation of new fireplace, burning logs will give off a paper-burning smell. Orange flame will also be present. Open damper or window to vent smell. This will only last a few hours.

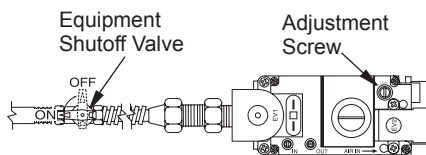


Figure 37 - Turning Equipment Shutoff Valve to the OFF Position

OPERATION

Continued

TO TURN OFF GAS TO APPLIANCE

1. Turn off wall switch.
2. Turn off all electric power to appliance if service is to be performed.
3. Fully open glass doors if installed.
4. Remove front hearth brick and control access panel.
5. Turn equipment shutoff valve clockwise to OFF. Do not force.
6. Replace front refractory brick access panel.
7. Fully close glass doors if installed.

OPTIONAL REMOTE OPERATION

Note: The WRC receiver and hand-held remote control kit must be purchased separately (see [Accessories](#), page 25). Follow installation instructions on page 10.

1. Turn equipment shutoff valve to ON position. You can now turn burner on and off with the hand-held remote control unit.
IMPORTANT: Be sure to press ON/OFF buttons on hand-held remote control unit for up to 3 seconds to assure proper operation.
2. Press the ON/OFF button to turn burner on and off.

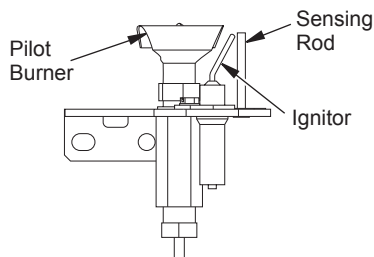


Figure 38 - Pilot

INSPECTING BURNERS

Check pilot flame pattern and burner flame patterns often.

PILOT ASSEMBLY

The pilot assembly is factory preset for the proper flame. Alterations may have occurred during shipping and handling. The pilot is located on the back right hand side of the burner.

The flame must envelope 1/4" of top of the ignitor/sensor and grounding stem.

If your pilot assembly does not meet these requirements:

- Turn adjustment screw marked PILOT clockwise to decrease or counterclockwise to increase the flame to proper size (see Figure 37, page 19). Do not remove adjustment screw.
- see [Troubleshooting](#), page 23

BURNER FLAME PATTERN

Burner flames will be steady, not lifting or floating. Flames should go up through the middle of log set. Flames should not "spill" to the edges of pan or sides of log set.

Figure 40 shows a typical flame pattern. If burner flame pattern differs from that described:

- turn appliance off (see [To Turn Off Gas to Appliance](#))
- see [Troubleshooting](#), page 23

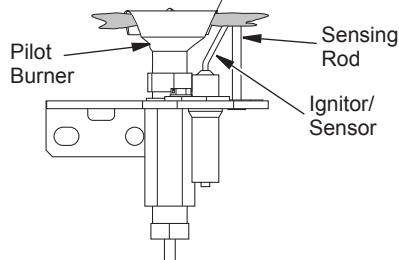


Figure 39 - Correct Pilot Flame Pattern

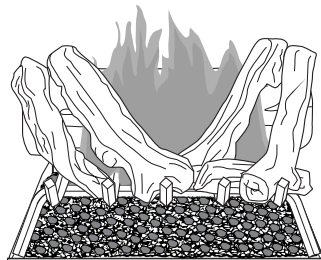


Figure 40 - Typical Flame Pattern

CLEANING AND MAINTENANCE

⚠ WARNING: Installation and repair should be done by a qualified service person. The appliance should be inspected before each use and at least annually by a qualified service person. More frequent cleaning may be required due to excessive lint from carpeting, bedding material, pet hair, etc. It is imperative that the control compartments, burners and circulating air system be kept clean.

⚠ WARNING: The logs can be hot. Handle only when cool.

⚠ WARNING: Turn off gas and electrical power before servicing appliance.

⚠ WARNING: Failure to keep the primary air opening(s) of the burner(s) clean may result in sooting and property damage.

PILOT AND BURNER

- Remove logs and ember material before cleaning burner and replace when cleaning is complete.
- Burner and controls should be cleaned with compressed air to remove dust, dirt or lint.
- Use a vacuum cleaner or small, soft bristled brush to remove excess dust, dirt or lint.

LOGS

- If you remove logs for cleaning, refer to log placement information on page 15 to properly replace logs.
- Use a vacuum cleaner to remove any carbon buildup on logs.
- Replace log(s) if broken. See [Replacement Parts](#).
- Replace ember material periodically as needed. See [Replacement Parts](#).

REPLACEMENT PARTS

Note: Use only original replacement parts. This will protect your warranty coverage for parts replaced under warranty.

PARTS UNDER WARRANTY

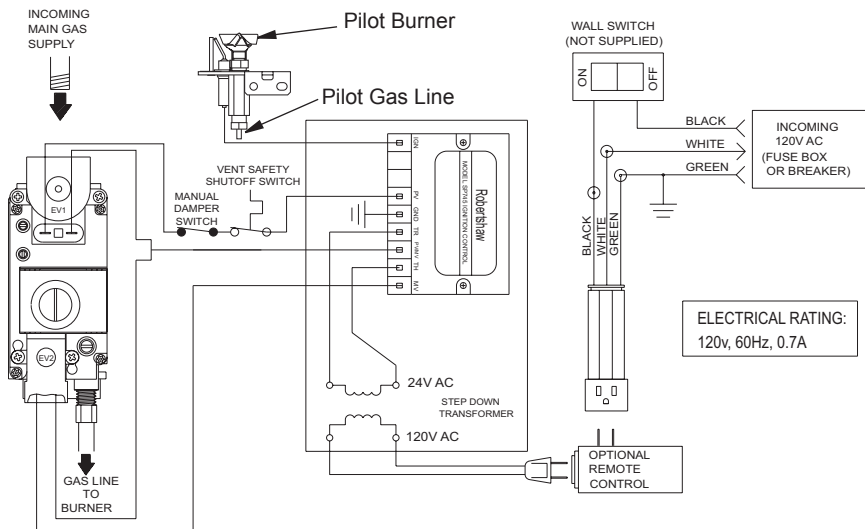
Contact authorized dealers of this product. If they can't supply original replacement part(s), call INNOVATIVE HEARTH PRODUCTS at 1-800-655-2008.

When calling, have ready:

- your name
- your address
- model and serial numbers of your fireplace
- how fireplace was malfunctioning
- purchase date

Usually, we will ask you to return the part to the factory.

WIRING DIAGRAM



SERVICE HINTS

When Gas Pressure Is Too Low

- pilot will not stay lit
- burner will have delayed ignition
- fireplace will not produce specified heat
- propane/LP gas supply may be low if using propane/LP gas

If using propane/LP gas, you may feel your gas pressure is too low. If so, contact your local propane/LP gas supplier.

TECHNICAL SERVICE

You may have further questions about installation, operation, or troubleshooting. If so, contact INNOVATIVE HEARTH PRODUCTS at 1-800-655-2008. When calling please have your model and serial numbers of your fireplace ready.

You can also visit INNOVATIVE HEARTH PRODUCTS's web site at www.IHP.US.com.

TROUBLESHOOTING

Note: Before troubleshooting the system, make sure the gas shutoff valve is ON. The two most common causes of a malfunctioning gas appliance are:

1. *Loose wiring connections*
2. *Construction debris clogging the pilot and/or gas control valve filter*

OBSERVED PROBLEM	POSSIBLE CAUSE	REMEDY
Ignitor will not spark or pilot will not light	1. No gas supply or shutoff valve is OFF	1. Check to see if you have gas supply and that equipment shutoff valve is opened
	2. Air in gas line	2. Repeat lighting procedure several times to purge all air out of lines. If after repeated attempts appliance does not light, call for qualified service and repair
	3. Construction debris clogging pilot orifice	3. Remove debris and dirt, inspect and clean any other possible obstructions
	4. Low gas pressure	4. Contact your gas supplier to check pressure
	5. Kinked pilot line	5. Have a qualified technician replace pilot line
	6. Control valve knob is not opening	6. Replace control valve (refer to <u>Replacement Parts</u> , page 21)
	7. No power to unit or the ignition module or power transformer is bad	7. Check that main power is on and that all wire connections are made correctly to ignition model (see <u>Wiring Diagram</u> , page 22). Check for 24 VAC at the secondary side of transformer. If 24 VAC is present and module does not operate, have module replaced otherwise have transformer replaced
	8. Vent damper not fully open	8. Open vent damper until fully locked in OPEN position
Pilot will not stay lit	1. Loose wiring on ignitor wire to ignition module and/or poor ground to ignition module	1. Check wiring connection. Refer to wiring diagram, page 21, and/or check ground wire to ignition module
	2. Pilot flame too low to sense	2. Clean and adjust pilot burner and check gas supply and inlet pressure to unit <i>Note: Have a qualified technician replace pilot assembly if broken or corroded</i>
No gas to burner, although wall switch and valve are set to the ON position	1. Wall switch wires defective or too long	1. Check electrical connections
	2. Thermopile not generating sufficient voltage	2. Recheck problems 1 and 2

TROUBLESHOOTING

Continued



WARNING: If you smell gas

- Shut off gas supply.
- 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 neighbor's phone. Follow the gas supplier's instructions.
- If you cannot reach your gas supplier, call the fire department.

IMPORTANT: Operating fireplace where impurities in air exist may create odors. Cleaning supplies, paint, paint remover, cigarette smoke, cements and glues, new carpet or textiles, etc., create fumes. These fumes may mix with combustion air and create odors.

OBSERVED PROBLEM	POSSIBLE CAUSE	REMEDY
Fireplace produces a clicking/ticking noise just after burner is lit or shut off	1. Metal expanding while heating or contracting while cooling	1. This is normal with most fireplaces. If noise is excessive, contact qualified service person
Fireplace produces unwanted odors	1. Fireplace burning vapors from paint, hair spray, glues, etc. (See IMPORTANT statement above) 2. For propane/LP gas, low fuel supply 3. Gas leak. See Warning statement at top of page	1. Ventilate room. Stop using odor causing products while fireplace is running 2. Contact local propane/LP supplier 3. Locate and correct all leaks (see <u>Gas Line Hook-Up</u> , page 13)
Gas odor even when gas control valve is off	1. Gas leak. See Warning statement at top of page 2. Control valve defective	1. Locate and correct all leaks (see <u>Gas Line Hook-Up</u> , page 13) 2. Replace control valve
Gas odor during combustion	1. Foreign matter between control valve and burner 2. Gas leak. See Warning statement at top of page	1. Take apart gas tubing and remove foreign matter 2. Locate and correct all leaks (see <u>Gas Line Hook-Up</u> , page 13)
Dark residue on logs or inside of fireplace	1. Improper log placement 2. Air holes at burner inlet blocked 3. Burner flame holes blocked 4. Improper venting or excessive blockage 5. Excessive amounts of embers and pan material	1. Properly locate logs (see log placement sections on page 15) 2. Clean out air holes at burner inlets. Periodically repeat as needed 3. Remove blockage or replace burner 4. Have vent system inspected, including termination cap. Remove any restrictions or obstruction 5. Clear excess embers until a minimum gap of 1/2" remains under grate

ACCESSORIES

NOTICE: All accessories may not be available for all fireplace models.

Purchase these accessories from your local dealer. If they can not supply these accessories call INNOVATIVE HEARTH PRODUCTS at 1-800-655-2008 for information. You can also write to the address listed on the back page of this manual.

AIR KIT - AK4

Optional kit helps offset the negative pressure often existing in today's tightly constructed homes. Negative pressure may occur when other appliances in the home draw on air, possible leading to poor operation, soot, or spillage.

REMOTE CONTROL KITS

WRC - Standard On/Off Electronic Remote Control Kit

EXTRUDED ALUMINUM BI-FOLD GLASS DOORS

BD36 - 36" Black Finish

BD36B - 36" Brushed Brass Finish

BD36P - 36" Platinum Finish

BD42 - 42" Black Finish

BD42B - 42" Brushed Brass Finish

BD42P - 42" Platinum Finish

FIXED GLASS DOORS

FD36 - 36" Black Finish

FD36B - 36" Brushed Brass Finish

FD36P - 36" Platinum Finish

FD42 - 42" Black Finish

FD42B - 42" Brushed Brass Finish

FD42P - 42" Platinum Finish

BRICK LINER KIT

(For M36(B,H), M36P(B,H), M42(B,H) and M42P(B,H))

BL36 - 36" Refractory Standard Brick

BL42 - 42" Refractory Standard Brick

BL36H - 36" Refractory Herringbone Brick

BL42H - 42" Refractory Herringbone Brick

(For VM36(B,H), VM36P(B,H), VM42(B,H) and VM42P(B,H))

BL36S - 36" Refractory Standard Brick

BL42S - 42" Refractory Standard Brick

BL36HS - 36" Refractory Herringbone Brick

BL42HS - 42" Refractory Herringbone Brick

PERIMETER TRIM

PT36 - 36", Black

PT36B - 36", Brushed Brass

PT36P - 36", Platinum

PT42 - 42", Black

PT42B - 42", Brushed Brass

PT42P - 42", Platinum

PROPANE/NATURAL GAS CONVERSION KIT

PCBE-36 - Propane/LP Gas, Electronic Models

NCBE-36 - Natural Gas - Electronic Models

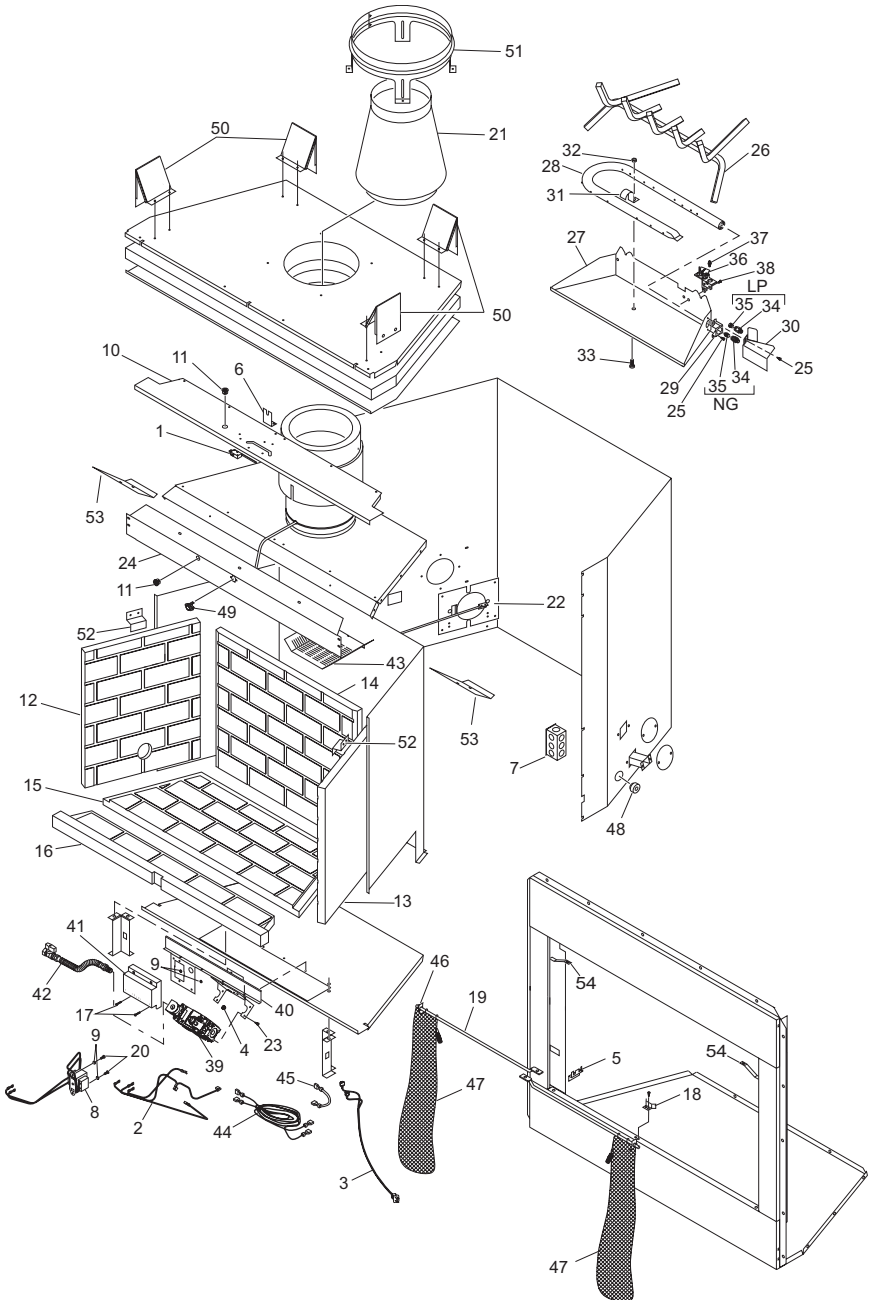
PCBE-42 - Propane/LP Gas, Electronic Models

NCBE-42 - Natural Gas, Electronic Models

PARTS

MODELS

BRT 4036TEN/ 4336TEN/ 4536TEN/ 4042TEN/ 4342TEN/ 4542TEN/ 4036TEP/
4336TEP/ 4536TEP/ 4042TE/ 4342TEP/ 4542TEP



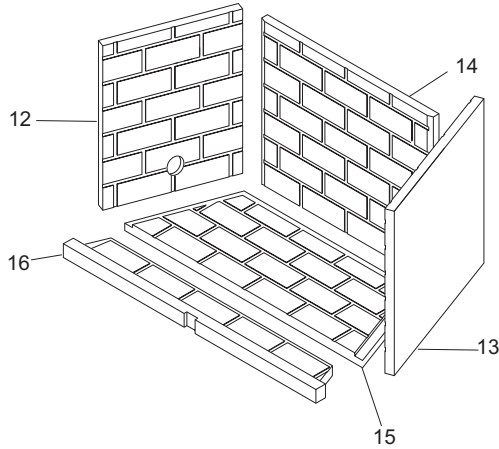
PARTS

This list contains replaceable parts used in your fireplace. When ordering parts, follow the instructions listed under Replacement Parts on page 21 of this manual.

KEY NO.	36" MODELS	42" MODELS	DESCRIPTION	QTY
1	14153	14153	Micro Switch	1
2	109098-01	109098-01	Wire Harness	1
3	108863-01	108863-01	24" Supply Connect Plug	1
4	108864-01	108864-01	Strain Relief 1/2" Bushing	1
5	106642-01	106642-01	Air Rod Retainer	1
6	106643-01	106643-01	Damper Rod Retainer	1
7	110037-01	110037-01	Electrical Duct Assembly	1
8	14129	14129	Transformer	1
9	11201	11201	Nut, #8-32	4
10	106657-02	107811-02	Air Separator	1
11	11408	11408	Bushing	2
12	See page 28		Left Refractory	1
13	See page 28		Right Refractory	1
14	See page 28		Rear Refractory	1
15	See page 28		Bottom Rear Refractory	1
16	See page 28		Bottom Front Refractory	1
17	11186	11186	ScREW, #8-32	2
18	20088	20088	Door Stop	1
19	106691-01	107839-01	Screen Rod	2
20	11109	11109	Screw, #8-32 x 1/2"	2
21	106699-01	106699-01	Transition 6" B-Vent Collar	1
22	106703-01	106703-01	Air Kit Door Assembly	1
23	11107	11107	Screw, #10-32 x 1/4"	4
24	106948-02	107823-02	Smoke Deflector	1
25	11165	11165	Screw, #10 x 5/8"	2
26	107796-01	107796-02	Grate Assy	1
27	107742-01	107742-02	Burner Pan	1
28	107795-01	107831-01	Burner Tube	1
29	107748-01	107748-01	Burner Brckt	1
30	107985-01	107985-02	Pilot Shield	1
31	901681-01	901681-01	Burner Clamp	1
32	11209	11209	Nut, #10-24	1
33	11147	11147	Screw, #10-24 x 1/2"	1
34	901066-01	901066-01	Brass Air Mixer (NG)	1
	901066-02	901066-02	Brass Air Mixer (LP)	1
35	901064-03	901064-08	Orifice (NG)	1
	901065-13	901065-08	Orifice (LP)	1
36	108866-01	108866-01	Pilot (NG)	1
	108866-02	108866-02	Pilot (LP)	1
37	108867-01	108867-01	Pilot Orifice (NG)	1
	108867-02	108867-02	Pilot Orifice (LP)	1
38	11102	11102	Screw, #8-32 x 3/8	2
39	14569	14569	Gas Control Valve (NG)	1
	14570	14570	Gas Control Valve (LP)	1
40	107741-01	107741-01	Valve Bracket	1
41	110286-01	110286-01	Ignition Module	1
42	111288-02	111288-02	Manual Valve w/ Flex Hose	1
43	22912	22924	Draft Diverter	1
44	108005-03	108005-03	Wire Harness	1
45	108005-02	108005-02	Wire Harness	1
46	11418	11418	Push-On Nut	2
47	12105	107840-01	Screen	2
48	14123	14123	Strain Relief	1
49	14574	106543-01	Limit Switch	1
50	20280	20280	Top Spacer	4
51	20023	20023	Starter Collar	1
52	20027	20027	Brick Liner Retainer	2
53	108769-01	108769-02	Extension Deflector	2
54	20090	20090	Spring Clip	2
PARTS AVAILABLE NOT SHOWN				
	901157-01	901157-01	Lava Rock	1
	20042	20042	Air Kit Cover	1

PARTS

This list contains replaceable parts used in your fireplace. When ordering parts, follow the instructions listed under Replacement Parts on page 21 of this manual.

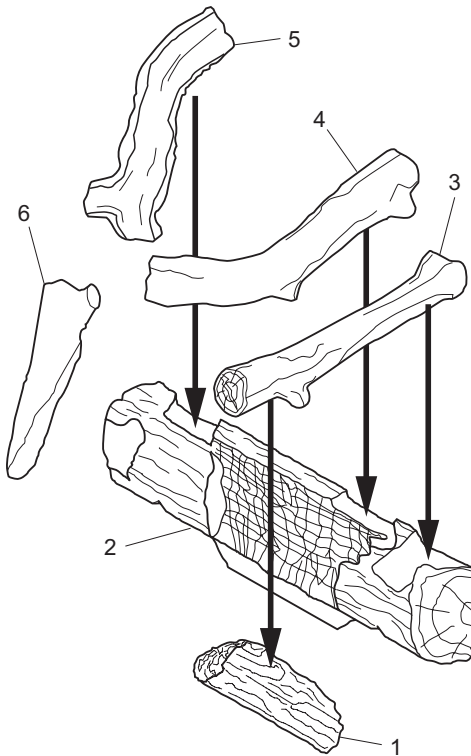


KEY NO.	36" Models	42" Models	DESCRIPTION	QTY
	BRT4036TEN	BRT4042TEN		
	BRT4036TEP	BRT4042TEP		
	BRT4336TEN	BRT4342TEN		
	BRT4336TEP	BRT4342TEP		
	BRT4536TEN	BRT4542TEN		
	BRT4536TEP	BRT4542TEP		
12	106658-02	107812-02	Left Refractory, Std. Brick	1
	108164-02	108169-02	Left Refractory, Herringbone)	1
13	106659-02	107814-02	Right Refractory, Std. Brick	1
	108165-02	108170-02	Right Refractory, Herringbone	1
14	106660-02	107816-02	Rear Refractory, Std. Brick	1
	108166-02	108171-02	Rear Refractory, Herringbone	1
15	106661-02	107818-02	Bottom Rear Refractory, Std. Brick	1
	108167-02	108172-02	Bottom Rear Refractory, Herringbone	1
16	106662-02	107820-02	Bottom Front Refractory, Std. Brick	1
	108168-02	108173-02	Bottom Front Refractory, Herringbone	1

PARTS

LOGSETS FOR MODELS

BRT4036TEN, BRT4336TEN, BRT4536TEN, BRT4036TEP, BRT4336TEP AND BRT4536TEP



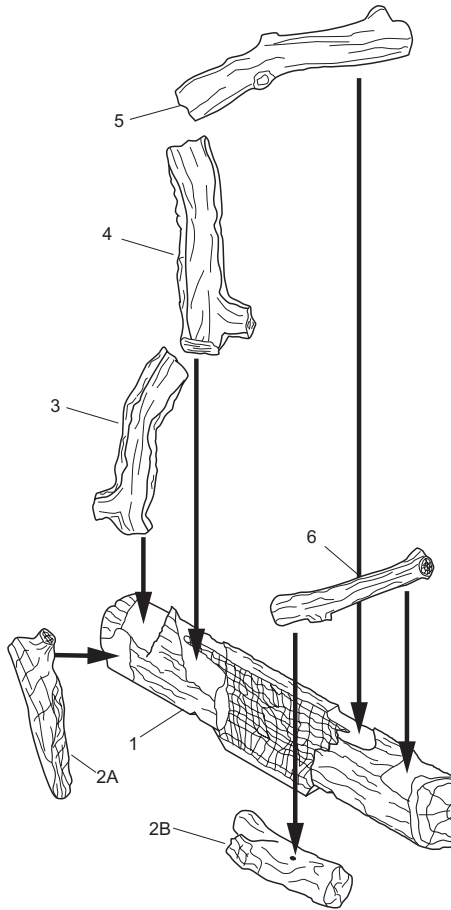
KEY

NO.	PART NO.	DESCRIPTION	QTY.
-	107999-01	Log Set	
1	108724-01	Right Front 9" Split Log	1
2	901098-01	Rear Log	1
3	108720-01	Top Right Log - 11 3/4"	1
4	108721-01	Top Right Log - 16"	1
5	108722-01	Top Left Log - 13 1/2" Y-Log	1
6	108723-01	Top Left Log - 11"	1

PARTS

LOGSETS FOR MODELS

**BRT4042TEN, BRT4342TEN, BRT4542TEN, BRT4042TEP, BRT4342TEP AND
BRT4542TEP**



KEY

NO.	PART NO.	DESCRIPTION	QTY.
-	107999-02	Log Set	
1	901098-02	Rear Log	1
2A	108723-01	Left Front Log - 11"	1
2B	108839-01	Right Front Log - 15 3/4" Round	1
3	108722-01	Top Left Log - 13 1/2" Y-Log	1
4	108838-01	Inside Top Left Log - 15 3/4" Split	1
5	108721-01	Inside Top Right Log - 16"	1
6	108720-01	Top Right Log - 11 3/4"	1

Innovative Hearth Products

Superior™ Brand Gas Fireplaces, Stoves and Inserts

20 Year Limited Warranty

THE WARRANTY

Innovative Hearth Products ("IHP") 20 Year Limited Warranty warrants your Superior™ Brand gas fireplace, Stove or Insert ("Product") to be free from defects in materials and workmanship at the time of manufacture. The Product body and firebox carry the 20 Year Limited Warranty. Ceramic glass carries the 20 Year Limited Warranty against thermal breakage only. After installation, if covered components manufactured by IHP are found to be defective in materials or workmanship during the 20 Year Limited Warranty period and while the Product remains at the site of the original installation, IHP will, at its option, repair or replace the covered components. If repair or replacement is not commercially practical, IHP will, at its option, refund the purchase price or wholesale price of the IHP product, whichever is applicable. IHP will also pay IHP prevailing labor rates, as determined in its sole discretion, incurred in repairing or replacing such components for up to five years. THERE ARE EXCLUSIONS AND LIMITATIONS to this 20 Year Limited Warranty as described herein.

COVERAGE COMMENCEMENT DATE

Warranty coverage begins on the date of installation. In the case of new home construction, warranty coverage begins on the date of first occupancy of the dwelling or six months after the sale of the Product by an independent IHP dealer/distributor, whichever occurs earlier. The warranty shall commence no later than 24 months following the date of product shipment from IHP, regardless of the installation or occupancy date.

EXCLUSIONS AND LIMITATIONS

This 20 Year Limited Warranty applies only if the Product is installed in the United States or Canada and only if operated and maintained in accordance with the printed instructions accompanying the Product and in compliance with all applicable installation and building codes and good trade practices.

This warranty is non-transferable and extends to the original owner only. The Product must be purchased through a listed supplier of IHP and proof of purchase must be provided. The Product body and firebox carry the 20 Year Limited Warranty from the date of installation. Vent components, trim components and paint are excluded from this 20 Year Limited Warranty. The following do not carry the 20 Year Limited Warranty but are warranted as follows:

- Burner** – Repair or replacement for one year from the date of installation
- Gas components** – Repair or replacement for one year from the date of installation
- Gaskets** – Repair or replacement for one year from the date of installation
- Logs** – Replacement for one year from the date of installation against thermal breakage only
- Optional blowers & remote controls** – Repair or replacement for one year from the date of installation
- Optional glass doors** – Repair or replacement for 90 days from the date of installation
- Tempered glass** - Replacement for one year from the date of installation
- Labor coverage** – Prevailing IHP labor rates apply for the warranty period of the component

Parts not otherwise listed carry a 90 day warranty from the date of installation.

Whenever practicable, IHP will provide replacement parts, if available, for a period of 10 years from the last date of manufacture of the Product.

IHP will not be responsible for: (a) damages caused by normal wear and tear, accident, riot, fire, flood or acts of God; (b) damages caused by abuse, negligence, misuse, or unauthorized alteration or repair of the Product affecting its stability or performance (The Product must be subjected to normal use. The Product is designed to burn either natural or propane gas only. Burning conventional fuels such as wood, coal or any other solid fuel will cause damage to the Product, will produce excessive temperatures and could result in a fire hazard.); (c) damages caused by failing to provide proper maintenance and service in accordance with the instructions provided with the Product; (d) damages, repairs or inefficiency resulting from faulty installation or application of the Product.

IHP is not responsible for inadequate fireplace system draft caused by air conditioning and heating systems, mechanical ventilation systems, or general construction conditions which may generate negative pressure in the room in which the appliance is installed. Additionally IHP assumes no responsibility for drafting conditions caused by venting configurations, adjoining trees or buildings, adverse wind conditions or unusual environmental factors and conditions that affect the operation of the unit.

This 20 Year Limited Warranty covers only parts and labor as provided herein. In no case shall IHP be responsible for materials, components or construction, which are not manufactured or supplied by IHP or for the labor necessary to install, repair or remove such materials, components or construction. Additional utility bills incurred due to any malfunction or defect in equipment are not covered by this warranty. All replacement or repair components will be shipped F.O.B. from the nearest stocking IHP factory.

LIMITATION ON LIABILITY

It is expressly agreed and understood that IHP's sole obligation and the purchaser's exclusive remedy under this warranty, under any other warranty, expressed or implied, or in contract, tort or otherwise, shall be limited to replacement, repair, or refund, as specified herein.

In no event shall IHP be liable for any incidental or consequential damages caused by defects in the Product, whether such damage occurs or is discovered before or after repair or replacement, and whether such damage is caused by IHP's negligence. IHP has not made and does not make any representation or warranty of fitness for a particular use or purpose, and there is no implied condition of fitness for a particular use or purpose.

IHP makes no expressed warranties except as stated in this 20 Year Limited Warranty. The duration of any implied warranty is limited to the duration of this expressed warranty.

No one is authorized to change this 20 Year Limited Warranty or to create for IHP any other obligation or liability in connection with the Product. Some states and provinces do not allow the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you. The provisions of this 20 Year Limited Warranty are in addition to and not a modification of or subtraction from any statutory warranties and other rights and remedies provided by law.

INVESTIGATION OF CLAIMS AGAINST WARRANTY

IHP reserves the right to investigate any and all claims against this 20 Year Limited Warranty and to decide, in its sole discretion, upon the method of settlement.

To receive the benefits and advantages described in this 20 Year Limited Warranty, the appliance must be installed and repaired by a licensed contractor approved by IHP.

Contact IHP at the address provided herein to obtain a listing of approved dealers/distributors. **IHP shall in no event be responsible for any warranty work done by a contractor that is not approved without first obtaining IHP's prior written consent.**

HOW TO REGISTER A CLAIM AGAINST WARRANTY

In order for any claim under this warranty to be valid, you must contact the IHP dealer/distributor from which you purchased the product. If you cannot locate the dealer/distributor, then you must notify IHP in writing. IHP must be notified of the claimed defect in writing within 90 days of the date of failure. Notices should be directed to the IHP Warranty Department at 1508 Elm Hill Pike, Suite 108; Nashville, TN 37210 or visit our website at WWW.SUPERIORFIREPLACES.US.COM.

KEEP THIS WARRANTY

Model (located on product or identification tag) _____

Serial No. (located on product or identification tag) _____

Date Purchased _____

Keep receipt for warranty verification.

Innovative Hearth Products reserves the right to make changes at any time, without notice, in design, materials, specifications, prices and also to discontinue colors, styles and products. Consult your local distributor for fireplace code information.



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