

# **Installers Guide**

# Models: Olympus Titan





Underwriters Laboratories Listed

# WARNING: IF THE INFORMATION IN THESE INSTRUCTIONS IS NOT FOLLOWED EXACTLY, A FIRE OR EXPLOSION MAY RESULT CAUS-ING PROPERTY DAMAGE, PER-SONAL 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.

Printed in U.S.A. Copyright 2004 Hearth & Home Technologies, Inc. 20802 Kensington Boulevard, Lakeville, MN 55044 READ THIS MANUAL BEFORE INSTALLING OR OPERATING THIS APPLIANCE. THIS *INSTALLERS GUIDE* MUST BE LEFT WITH APPLIANCE FOR FUTURE REFERENCE.

WARNING: IMPROPER INSTALLA-TION, ADJUSTMENT, ALTERATION, SERVICE OR MAINTENANCE CAN CAUSE INJURY OR PROPERTY DAM-AGE. REFER TO THIS MANUAL. FOR ASSISTANCE OR ADDITIONAL INFOR-MATION CONSULT A QUALIFIED IN-STALLER, 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.
- 2. 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.

Please contact your Hearth & Home Technologies dealer with any questions or concerns. For the number of your nearest Hearth & Home Technologies dealer, please call (Olympus) 1-888-427-3973 or (Titan) 1-800-927-6841.

This product may be covered by one or more of the following patents: (Nos produits sont couverts par un ou plusieurs des brevets suivants): (United States) 4593510, 4686807, 4766876, 4793322, 4811534, 5000162, 5016609, 5076254, 5113843, 5191877, 5218953, 5263471, 5328356, 5341794, 5347983, 6429455, 5452708, 5542407, 5601073, 5613487, 5647340, 5688568, 5762062, 5775408, 5890485, 5931661, 5941237, 59417112, 5996575, 6006743, 601999, 6048195, 6053165, 6145502, 6170481, 6237588, 6296474, 6374822, 6413079, 6439226, 6484712, 6543698, 6550687, 6601579, 6672860, 6688302, 6715724, 6728551, 6736133, 6748940, 6748942, D320652, D445174, D462436; (Canada)1297749, 2195264, 2225408; or other U.S. and foreign patents pending (ou autres brevets americains et etrangers en attente).

# SAFETY AND WARNING INFORMATION



**READ** and **UNDERSTAND** all instructions carefully before starting the installation. FAILURE TO FOLLOW these installation instructions may result in a possible fire hazard and will void the warranty.

Prior to the first firing of the fireplace, **READ** the Lighting the Fireplace section of the Installer's Guide.

**DO NOT USE** this appliance if any part has been under water. Immediately CALL a qualified service technician to inspect the unit and to replace any part of the control system and any gas control which has been under water.



THIS UNIT IS NOT FOR USE WITH SOLID FUEL.

Installation and repair should be **PERFORMED** by a gualified service person. The appliance and venting system should be INSPECTED before initial use and at least annually by a professional service person. More frequent cleaning may be required due to excessive lint from carpeting, bedding material, etc. It is IMPERATIVE that the unit's control compartment, burners, and circulating air passageways BE KEPT CLEAN to provide for adequate combustion and ventilation air.

Always *KEEP* the appliance clear and free from combustible materials, gasoline, and other flammable vapors and liquids.



**NEVER OBSTRUCT** the flow of combustion and ventilation air. Keep the front of the appliance CLEAR of all obstacles and materials for servicing and proper operations.



Due to the high temperature, the appliance should be LOCATED out of traffic areas and away from furniture and draperies. Clothing or flammable material SHOULD NOT BE PLACED on or near the appliance.



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.



These units **MUST** use one of the vent systems described in the Installing the Fireplace section of the Installers Guide. NO OTHER vent systems or components MAY BE USED.

This gas fireplace and vent assembly **MUST** be vented directly to the outside and MUST NEVER be attached to a chimney serving a separate solid fuel burning appliance. Each gas appliance MUST USE a separate vent system. Common vent systems are PROHIBITED.



**INSPECT** the external vent cap on a regular basis to make sure that no debris is interfering with the air flow.

The glass door assembly **MUST** be in place and sealed, and the trim door assembly **MUST** be in place on the fireplace before the unit can be placed into safe operation.

> **DO NOT OPERATE** this appliance with the glass door removed, cracked, or broken. Replacement of the glass door should be performed by a licensed or qualified service person. DO NOT strike or slam the glass door.



The glass door assembly SHALL ONLY be replaced as a complete unit, as supplied by the gas fireplace manufacturer. NO SUBSTITUTE material may be used.



DO NOT USE abrasive cleaners on the glass door assembly. **DO NOT ATTEMPT** to clean the glass door when it is hot.



Turn off the gas before servicing this appliance. It is recommended that a qualified service technician perform an appliance check-up at the beginning of each heating season.



Any safety screen or guard removed for servicing must be replaced before operating this appliance.



**DO NOT** place furniture or any other combustible household objects within 36 inches of the fireplace front.

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♦ = Contains updated information.



Service Parts

(NG, LP) Exploded Parts Diagram (GN, PL) Vue éclatée des pièces Manufacturing Date: 10-03-02

ΊΤΑΝ

Beginning Manufacturing Date: 10-03-02 Ending Manufacturing Date: 2-01-05



# (NG, LP) Service Parts List / (GN, PL) Liste des pièces de rechange

**IMPORTANT:** THIS IS DATED INFORMATION. The most current information is located on your dealers VIP site. When ordering, supply serial and model numbers to ensure correct service parts. / **IMPORTANT :** L'information fournie dans cette brochure n'est valide que pendant une courte période. Les sites VIP des distributeurs disposent des renseignements les plus récents. Lors d'une commande, veuillez fournir les numéros de série et de modèles pour un remplacement adéquat des pièces.

ITEM / PIÈCE	IPI IGNITION / ALLUMAGE IPI	SERIAL # /N° DE SÉRIE	PART NUMBER / N° DE PIÈCE
1	Burner NG / Brûleur GN		781-175A
1	Burner LP / Brûleur PL		781-176A
2	Ember Mesh Screen / Écran		780-382
3	Refractory, Left Side / Réfractairecôté gauche		SRV781-735
4	Refractory, Back / Réfractaire arrière		SRV781-730
5	Refractory, Right Side / Réfractairecôté droit		SRV781-731
6	Refractory, Back Left / Réfractaire arrière gauche		SRV781-733
7	Refractory, Back Right / Réfractairearrière droit		SRV781-734
8	Refractory, Left Base / Réfractaire Basegauche		SRV781-732
9	Refractory, Right Base / Réfractaire Base droit		SRV781-736
10	Refractory, Middle Base / Réfractaire Base		SRV781-737
11	Hood / Hotte		SRV570-143
12	Glass Door Assembly / Porte en verre		GLA-780
13	Decorative Front / Avant décoratif		DF-TITAN
14	Electric Ember Box / La Boîte Electrique de Braise		780-197A
15	Log Set Assembly / Jeu de Bûches		LOGS-TITAN
16	Log 1 / Bûche 1		SRV781-701
17	Log 2 / Bûche 2		SRV781-702
18	Log 3 / Bûche 3		SRV781-703
19	Log 4 / Bûche 4		SRV781-704
20	Log 5 / Bûche 5		SRV781-706
21	Log 6 / Bûche 6		SRV781-705
22	Log Grate / Grille de Bûche		781-360A
23	Side Panel (Order as custom overlay, reference: 780-130)		N/A
24	Black Handles Assembly / L'Assemblée noire de Poignées		060-024A-BK
25	Louver / Louvre		781-144
26	Junction Box - IPI / Boîtier de raccordement - IPI		383-250A
	Lava Rock Bag / Le Sac de Rocher de lave		705-420
	Light Socket Assembly / L'Assemblée légère de Douille		700-108A
	Refractory Bracket / Crochet réfractaire		780-198
	51 inch Wire Harness / Harnais de fil		065-577A
	Wire Assembly / Module de fil		505-501A
	Ember Reflector / Réflecteur de braise		430-602
	Cord Assembly / Assemblée de corde		700-550A
	Mineral Wool / Laine minérale		050-721
	T-Handle / T-Poignée		567-313
	ACCESSORIES / ACCESSOIRES		
	Remote Control Kit / Module de commande a distance		KC-SMART-HTL
	Remote Control Kit / Module de commande à distance		SMARI-STAT-HTL
	Remote Control Kit / Module de commande à distance		
	Wall Switch Kit / Interrupteur mural		WSK-MLI
	Wall Switch Kit, Ott-white / Interrupteur mural, blanc crème		WSK-21
	Wall Switch Kit, White / Interrupteur mural, blanc		WSK-21-W
	Conversion Kit NG / Module de conversion GN		NGK-IIIAN
	Conversion Kit LP / Module de conversion PL		LPK-IIIAN
	Fan Kit* / Module de ventilateur*		GFK-160A

Also see following pages for additional valve assembly service part numbers.

**NOTE:** Replacement bulbs to be supplied by homeowner. Recommended replacements: Sylvania Mini Candelabra 75 watts. See Section 4: Maintaining and Servicing your Fireplace for instructions.

\* In order to operate the fan kit, the fireplace must have either the WSK-MLT wall switch or RCT-MLT-HTL remote kit.



Service Parts

(NG, LP) Exploded Parts Diagram (GN, PL) Vue éclatée des pièces TITAN





ITEM / PIÈCE	DESCRIPTION	SERIAL # /N° DE SÉRIE	PART NUMBER / N° DE PIÈCE
1	Pilot Bracket / Parenthèse Pilote		781-164
2	ON/OFF Rocker Switch / Interrupteur à bascule MARCHE/ARRÊ		060-521A
3	ON/OFF Rocker Switch / Interrupteur à bascule MARCHE/ARRÊ		060-511
4	Pilot Assembly NG / Module de veilleuse GN		385-510A
4	Pilot Assembly LP / Module de veilleuse PL		385-511A
5	Valve Bracket / Parenthèse de Valve		780-145
6	Battery Pack / Paquet de Batterie(Pile)		593-594A
7	Flex Ball Valve Assembly / Fléchir l'Assemblée de Soupape de Balle		302-320A
8	Valve NG / Valve GN		750-500
8	Valve LP / Valve PL		750-501
9	Flexible Gas Connector / Tuyau à gaz flexible		570-302A
10	Module / Module		593-592
11	Wire Assembly / Module de fil		593-590A
12	Valve Plate Gasket / Joint de Plat de Valve		780-431
13	Orifice Assembly NG (#26C) / Assemblée d'Orifice GN (#26C)		582-826
13	Orifice Assembly LP (#45C) / Assemblée d'Orifice PL (#45C)		582-845
14	Pilot Assembly Support / Appui d'Assemblée Pilote		397-121
15	Orifice Bracket / Parenthèse d'Orifice		781-165
	Ground Strap / Courroie de Raison(Terre)		385-512
	3 Volt Transformer / 3 Transformateur de Volt		593-593A



# Service Parts

# **OLYMPUS**

(NG, LP) Exploded Parts Diagram (GN, PL) Vue éclatée des pièces

Beginning Manufacturing Date: 10-02 Ending Manufacturing Date: \_\_\_\_\_



# • (NG, LP) Service Parts List / (GN, PL) Liste des pièces de rechange

\* \* \* \* \* \* \*

**IMPORTANT:** THIS IS DATED INFORMATION. The most current information is located on your dealers VIP site. When ordering, supply serial and model numbers to ensure correct service parts. / **IMPORTANT :** L'information fournie dans cette brochure n'est valide que pendant une courte période. Les sites VIP des distributeurs disposent des renseignements les plus récents. Lors d'une commande, veuillez fournir les numéros de série et de modèles pour un remplacement adéquat des pièces.

ITEM / PIÈCE	IPI IGNITION / ALLUMAGE IPI	SERIAL # /N° DE SÉRIE	PART NUMBER / N° DE PIÈCE
1	Burner LP / Brûleur PL		780-175A
1	Burner NG / Brûleur GN		780-176A
2	Ember Mesh Screen / Écran		780-382
3	Sides and Back Refractory / Réfractairecôté et arrière		SRV780-730A
4	Base Refractory Assembly / Model de réfractaire Base		SRV780-732A
5	Electric Ember Box / La Boîte Electrique de Braise		780-197A
6	Log Grate / Grille de Bûche		780-360A
7	Hood / Hotte		SRV570-143
8	Glass Door Assembly / Porte en verre		GLA-780
9	Side Panel (Order as custom overlay, reference: 780-130)		N/A
10	Log Set Assembly / Jeu de Bûches		LOGS-OLY
11	Log 1 / Bûche 1		SRV780-701
12	Log 2 / Bûche 2		SRV780-702
13	Log 3 / Bûche 3		SRV780-703
14	Log 4 / Bûche 4		SRV780-704
15	Log 5 / Bûche 5		SRV780-705
16	Log 6 / Bûche 6		SRV780-706
17	Log 7 / Bûche 7		SRV780-707
18	Log 8 / Bûche 8		SRV780-708
19	Log 9 / Bûche 9		SRV780-709
20	Left NG Burner Tube / Tube de brûleur gauche GN		780-300A
20	Left LP Burner Tube / Tube de brûleur gauche PL		780-302A
21	Right NG Burner Tube / Tube de brûleur droite GN		780-301A
21	Right LP Burner Tube / Tube de brûleur droite PL		780-303A
22	Junction Box - IPI / Boîtier de raccordement - IPI		383-250A
	Lava Rock Bag / Le Sac de Rocher de lave		705-420
	Light Socket Assembly / L'Assemblée légère de Douille		700-108A
	Refractory Bracket / Crochet réfractaire		780-198
	51 inch Wire Harness / Harnais de fil		065-577A
	Wire Assembly / Module de fil		505-501A
	Ember Reflector / Réflecteur de braise		430-602
	Cord Assembly / Assemblée de corde		700-550A
	Mineral Wool / Laine minérale		050-721
	T-Handle / T-Poignée		567-313
	Golden Embers / Braises dorées		GE-93
	ACCESSORIES / ACCESSOIRES		0_00
	Remote Control Kit / Module de commande à distance		RC-SMART-HNG
	Remote Control Kit / Module de commande à distance		SMART-STAT-HNG
	Remote Control Kit / Module de commande à distance		RCT-MLT-HNG
	Wall Switch Kit / Interrupteur mural.		WSK-MLT
	Wall Switch Kit, Off-white / Interrupteur mural blanc crème		WSK-21
	Wall Switch Kit, White / Interrupteur mural, blanc		WSK-21-W
	Conversion Kit NG / Module de conversion GN		NGK-OLY
	Conversion Kit I.P. / Module de conversion Pl		I PK-OLY
	Fan Kit * / Module de ventilateur*		GFK-160A

Also see following pages for additional valve assembly service part numbers.

**NOTE:** Replacement bulbs to be supplied by homeowner. Recommended replacements: Sylvania Mini Candelabra 75 watts. See Section 4: Maintaining and Servicing your Fireplace for instructions.

\* In order to operate the fan kit, the fireplace must have either the WSK-MLT wall switch or RCT-MLT-HNG remote kit.



# Service Parts

(NG, LP) Exploded Parts Diagram (GN, PL) Vue éclatée des pièces



Beginning Manufacturing Date: 10/02 Ending Manufacturing Date: \_\_\_\_\_



ITEM / PIÈCE	DESCRIPTION	SERIAL # /N° DE SÉRIE	PART NUMBER / N° DE PIÈCE
1	Switch Assembly, Solenoid / Changer l'Assemblée, le Solénoïde		386-520A
2	ON/OFF Rocker Switch / Interrupteur à bascule MARCHE/ARRÊ		060-521A
3	ON/OFF Rocker Switch / Interrupteur à bascule MARCHE/ARRÊ		060-511
4	Pilot Assembly NG / Module de veilleuse GN		385-510A
4	Pilot Assembly LP / Module de veilleuse PL		385-511A
5	Valve Bracket / Parenthèse de Valve		780-145
6	Battery Pack / Paquet de Batterie(Pile)		593-594A
7	Flex Ball Valve Assembly / Fléchir l'Assemblée de Soupape de Balle		302-320A
8	Valve NG / Valve GN		593-500
8	Valve LP / Valve PL		593-501
9	Flexible Gas Connector / Tuyau à gaz flexible		570-302A
10	Module / Module		593-592
11	Wire Assembly / Module de fil		593-590A
12	Manifold Assembly / L'Assemblée diverse		386-301A
13	Manifold Gasket /Joint Diversifié(Varié)		385-410
14	Valve Plate Gasket / Joint de Plat de Valve		780-431
15	Orifice Assembly NG (#46C) (Requires 2) / Assemblée d'Orifice GN (#46C)		582-846
15	Orifice Assembly LP (#62C) (Requires 2) / Assemblée d'Orifice PL (#62C)		582-862
16	Orifice Assembly NG (#35C) / Assemblée d'Orifice GN (#35C)		582-835
16	Orifice Assembly LP (#51C) / Assemblée d'Orifice PL (#51C)		582-851
17	Pilot Bracket / Parenthèse Pilote		780-164
18	Burner Tube Bracket / Le Crochet de Tube de brûleur		780-149
19	Burner Tube Bracket / Le Crochet de Tube de brûleur		780-147
20	9 Volt Battery Holder / 9 Porte-Pile de Volt		386-511
21	Pilot Assembly Support / Appui d'Assemblée Pilote		397-121
	3 Volt Transformer / 3 Transformateur de Volt		593-593A

# Approvals and Codes

# **Appliance Certification**

The Hearth & Home Technologies fireplace models discussed in this *Installers Guide* have been tested to certification standards and listed by the applicable laboratories.

#### Certification

MODELS: Olympus, Titan LABORATORY: Underwriters Laboratories TYPE: Vented Gas Fireplace Heater STANDARD: ANSI Z21.88•CGA2.22•UL307B

# **Installation Codes**

The fireplace installation must conform to local codes. Before installing the fireplace, consult the local building code agency to ensure that you are in compliance with all applicable codes, including permits and inspections.

In the absence of local codes, the fireplace installation must conform to the National Fuel Gas Code ANSI Z223.1 (in the United States) or the CAN/CGA-B149 Installation Codes (in Canada). The appliance must be electrically grounded in accordance with local codes or, in the absence of local codes with the National Electric Code ANSI/NFPA No. 70 (in the United States), or to the CSA C22.1 Canadian Electric Code (in Canada).

These models may be installed in a bedroom or bed-sitting room in the U.S.A. and Canada.

# **High Altitude Installations**

U.L. Listed gas appliances are tested and approved without requiring changes for elevations from 0 to 2,000 feet in the U. S. A. and in Canada.

When installing this appliance at an elevation above 2,000 feet, it may be necessary to decrease the input rating by changing the existing burner orifice to a smaller size. Input rate should be reduced by 4% for each 1000 feet above a 2000 foot elevation in the U.S.A. or 10% for elevations between 2000 and 4500 feet in Canada. If the heating value of the gas has been reduced, these rules do not apply. To identify the proper orifice size, check with the local gas utility.

If installing this appliance at an elevation above 4,500 feet (in Canada), check with local authorities.



#### Introducing the Hearth & Home Technologies Gas Fireplaces

Hearth & Home Technologies direct vent gas fireplaces are designed to operate with all combustion air siphoned from outside of the building and all exhaust gases expelled to the outside.

The information contained in this *Installers Guide*, unless noted otherwise, applies to all models and gas control systems. Gas fireplace diagrams, including the dimensions, are shown in this section.

#### **Pre-install Preparation**

This gas fireplace and its components are tested and safe when installed in accordance with this *Installers Guide*. Report to your dealer any parts damaged in shipment, particularly the condition of the glass. **Do not install any unit with damaged, incomplete, or substitute parts.** 

The vent system components are shipped in separate packages. The gas logs are packaged separately and must be field installed.

Read all of the instructions before starting the installation. Follow these instructions carefully during the installation to ensure maximum safety and benefit. Failure to follow these instructions will void the owner's warranty and may present a fire hazard.

The Hearth & Home Technologies Warranty will be voided by, and Hearth & Home Technologies disclaims any responsibility for, the following actions:

- Installation of any damaged fireplace or vent system component.
- Modification of the fireplace or direct vent system.
- Installation other than as instructed by Hearth & Home Technologies.
- Improper positioning of the gas logs or the glass door.
- Installation and/or use of any component part not manufactured and approved by Hearth & Home Technologies, not withstanding any independent testing laboratory or other party approval of such component part or accessory.

# ANY SUCH ACTION MAY POSSIBLY CAUSE A FIRE HAZARD.

When planning a fireplace installation, it's necessary to determine:

- Where the unit is to be installed.
- The vent system configuration to be used.
- Gas supply piping.
- Electrical wiring.
- Framing and finishing details.
- Whether optional accessories—devices such as a fan, wall switch or remote control —are desired.

If the fireplace is to be installed on carpeting or tile, or on any combustible material other than wood flooring, the fireplace should be installed on a metal or wood panel that extends the full width and depth of the fireplace.







# Step 1. Locating the Fireplace

The diagram below shows space and clearance requirements for locating a fireplace within a room.



### **Clearance Requirements**

The top, back, and sides of the fireplace are defined by stand-offs. The minimum clearance to a perpendicular wall extending past the face of the fireplace is 4 inches (102 mm). The back of the fireplace may be recessed 25 1/8 inches (638mm) into combustible construction.

Minimum Clearances from the Fireplace to Combustible Materials			
	Inches	<u>mm</u>	
Glass Front		914	
Floor	0	0	
Rear			
Sides			
Тор			
Ceiling*	31	787	
* The clearance to the ceiling is measured from the top			

of the unit, excluding the standoffs (see Figure 26).

The distance from the unit to combustible construction is to be measured from the unit outer wrap surface to the combustible construction, **NOT** from the screw heads that secure the unit together.

Minimum Clearances from the Vent Pipe to Combustible Materials			
	Inches	<u>mm</u>	
Vertical Sections	1	25	
Horizontal Sections			
Тор	3*	75	
Bottom	1	25	
Sides	1	25	
At Wall Firestops			
Тор	3	75	
Bottom	1	25	
Sides	1	25	

\* When using DVP-Series pipe additional clearance and/or installation of a heat shield is required above the first 90° elbow (see Figure 4).

For minimum clearances of direct vent termination see Figures 21 and 22.

**NOTE:** When venting with a 3 foot vertical and 90<sup>o</sup> elbow as the first two vent components, the non-combustible zone is the entire width and depth of the firebox from the top of the fireplace to 3" above the horizontal vent. This area must remain free of combustibles (see Figure 4).



# Step 2. Framing the Fireplace

Fireplace framing can be built before or after the fireplace is set in place. Framing should be positioned to accommodate wall coverings and fireplace facing material. The diagram below shows framing reference dimensions.

**CAUTION:** MEASURE FIREPLACE DIMENSIONS AND VERIFY FRAMING METHODS AND WALL COVERING DETAILS BEFORE FRAMING.





# Step 3. Installing the Vent System

#### A. Vent System Approvals

The Titan and Olympus models are approved to use DVPseries vent pipe components (Figures 6 and 7) and terminations. Approved vent system components are labeled for identification. This pipe is tested and listed as an approved component of the fireplace. The pipe is tested to be run inside an enclosed wall. There is no requirement for inspection openings at each joint within the wall. There is no required pitch for horizontal vent runs. **NO OTHER VENT-ING SYSTEMS OR COMPONENTS MAY BE USED**.

Detailed installation instructions are included with each vent termination kit and should be used in conjunction with this *Installers Guide*.

The flame and ember appearance may vary based on the type of fuel burned and the venting configuration used.

#### **Identifying Vent Components**

The vent systems installed on this gas fireplace may include one, two or three 90° elbow assemblies. The relationships of vertical rise to horizontal run in vent configurations using 90° elbows **MUST BE** strictly adhered to. The rise to run relationships are shown in the venting drawings and tables. Refer to the diagrams on the next several pages.

NOTE: Two 45° elbows may be used in place of one 90° elbow. Rise to run ratios in the vent system must be followed if 45° elbows are used.

WARNING: A 3-FOOT LENGTH OF STRAIGHT PIPE (MINIMUM) MUST BE THE FIRST VENT COMPONENT ATTACHED TO THE UNIT.











# **B. Installing Vent Components**

### 1. Attaching the Venting to the Fireplace

Refer to Cinch Pipe and Termination Cap installation instructions.

### 2. Assembling Vent Sections

Refer to Cinch Pipe and Termination Cap installation instructions.

If the installation is for a termination cap attached directly to the fireplace, skip to the sections, **Install Firestops** and **Vent Termination**.

- Continue adding vent components, locking each succeeding component into place.
- Ensure that each succeeding vent component is securely fitted and locked into the preceding component in the vent system.
- 90° elbows may be installed and rotated to any point around the preceding component's vertical axis. If an elbow does not end up in a locked position with the preceding component, attach with a minimum of two (2) sheet metal screws.

# 3. Install Support Brackets

Refer to Cinch Pipe and Termination Cap installation instructions.

# 4. Install Firestops

For Horizontal Runs - Firestops are **REQUIRED** on both sides of a combustible wall through which the vent passes.

# NOTE: Model DVP-TRAP does not need an exterior firestop on an exterior combustible wall.

To install firestops for horizontal runs that pass through either interior or exterior walls:

• Cut a 10-inch by 12-inch (245mm x 305mm) hole through the wall.

# NOTE: The center of the hole is one (1) inch (25.4mm) above the center of the horizontal vent pipe.

- Position the firestops on both sides of the hole previously cut and secure the firestops with nails or screws.
- The heat shields of the firestops **MUST BE** placed towards the top of the hole.
- Continue the vent run through the firestops.

NOTE: There must be NO INSULATION or other combustibles inside the framed firestop opening.



Figure 12. 10" x 12" Hole and Vent Pipe



For Vertical Runs - One ceiling firestop is **REQUIRED** at the hole in each ceiling through which the vent passes.

To install firestops for vertical runs that pass through ceilings:

- Position a plumb bob directly over the center of the vertical vent component.
- Mark the ceiling to establish the centerpoint of the vent.
- Drill a hole or drive a nail through this centerpoint.
- Check the floor above for any obstructions, such as wiring or plumbing runs.
- Reposition the fireplace and vent system, if necessary, to accommodate the ceiling joists and/or obstructions.
- Cut a 10-inch x 10-inch (254mm x 254mm) hole through the ceiling, using the centerpoint previously marked.
- Frame the hole with framing lumber the same size as the ceiling joists.

NOTE: There must be NO INSULATION or other combustibles inside the framed firestop opening.



If the area above the ceiling is **NOT** an attic, position and secure the ceiling firestop on the ceiling side of the previously cut and framed hole.



If the area above the ceiling **IS** an attic, position and secure the firestop on top of the previously framed hole.

# NOTE: Keep insulation away from the vent pipe at least 1 inch (25mm).



### C. Vent Termination

Refer to Cinch Pipe and Termination Cap installation instructions.

WARNING: THE TERMINATION CAP MUST BE POSITIONED SO THAT THE ARROW IS POINT-ING UP.

WARNING: VENTING TERMINALS SHALL NOT BE RECESSED INTO A WALL OR SID-ING. VENT TERMINATION CLEARANCES MUST BE FOLLOWED TO AVOID FIRE DANGER. SEE VENT TERMINATION MINIMUM CLEARANCES DI-AGRAM ON FOLLOWING PAGE.

Horizontal terminations require insulation (included with the fireplace) to be placed directly above the heatshield on DVP-TR termination kit. Failure to correctly install this insulation could possibly result in a fire hazard.







- \*\* a vent shall not terminate directly above a sidewalk or paved driveway which is located between two single family dwellings and serves both dwellings.
- \*\*\* only permitted if veranda, porch, deck or balcony is fully open on a minimum of 2 sides beneath the floor, or meets Note 2.

**NOTE 1**: On private property where termination is less than 7 feet above a sidewalk, driveway, deck, porch, veranda or balcony, use of a listed cap shield is suggested.

**NOTE 2**: Termination in an alcove space (spaces open only on one side and with an overhang) are permitted with the dimensions specified for vinyl or non-vinyl siding and soffits. **1**. There must be 3 feet minimum between termination caps. **2**. All mechanical air intakes within 10 feet of a termination cap must be a minimum of 3 feet below the termination cap. **3**. All gravity air intakes within 3 feet of a termination cap must be a minimum of 1 foot below the termination cap.

Figure 19. Vent Termination Minimum Clearances

**NOTE 3:** Local codes or regulations may require different clearances.

**NOTE 4:** Termination caps may be hot. Consider their proximity to doors or other traffic areas.

**NOTE 5:** Location of the vent termination must not interfere with access to the electrical service.

**WARNING: In the U.S:** Vent system termination is **NOT** permitted in screened porches. You must follow side wall, overhang and ground clearances as stated in the instructions.

In Canada: Vent system termination is NOT permitted in screened porches. Vent system termination is permitted in porch areas with two or more sides open. You must follow all side walls, overhang and ground clearances as stated in the instructions.

Hearth & Home Technologies assumes no responsibility for the improper performance of the fireplace when the venting system does not meet these requirements.

**CAUTION:** IF EXTERIOR WALLS ARE FINISHED WITH VINYL SIDING, IT IS SUGGESTED THAT A VINYL PROTECTOR KIT BE INSTALLED.

**For Vertical Terminations -** To locate the vent and install the vent sections:

- Locate and mark the vent centerpoint on the underside of the roof, and drive a nail through the centerpoint.
- Make the outline of the roof hole around the centerpoint nail.
- The size of the roof hole framing dimensions depend on the pitch of the roof. There **MUST BE** a 1-inch (25.4mm) clear-ance from the vertical vent pipe to combustible materials.
- Mark the roof hole accordingly.
- Cover the opening of the installed vent pipes.
- Cut and frame the roof hole.
- Use framing lumber the same size as the roof rafters and install the frame securely. Flashing anchored to the frame must withstand heavy winds.
- Continue to install concentric vent sections up through the roof hole (for inside vent installations) or up past the roof line until you reach the appropriate distance above the roof (for outside terminations).

WARNING: MAJOR U.S. BUILDING CODES SPECIFY MINIMUM CHIMNEY AND/OR VENT HEIGHT ABOVE THE ROOF TOP. THESE MIN-IMUM HEIGHTS ARE NECESSARY IN THE INTER-EST OF SAFETY. SEE THE FOLLOWING DIAGRAM FOR MINIMUM HEIGHTS, PROVIDED THE TERMI-NATION CAP IS AT LEAST 20 INCHES FROM A VER-TICAL WALL AND 2-FEET BELOW A HORIZONTAL OVERHANG.

NOTE: This also pertains to vertical vent systems installed on the outside of the building. To seal the roof hole, and to divert rain and snow from the vent system:

- Attach a flashing to the roof using nails, and use a nonhardening mastic around the edges of the flashing base where it meets the roof.
- Attach a storm collar over the flashing joint to form a water-tight seal. Place non-hardening mastic around the joint, between the storm collar and the vertical pipe.
- Slide termination cap over the end of the vent pipe and secure with screws.



### Step 4. Positioning, Leveling, and Securing the Fireplace

The diagram below shows how to properly position, level, and secure the fireplace.



- Place the fireplace into position.
- Level the fireplace from side to side and from front to back.
- Shim the fireplace with non-combustible material, such as sheet metal, as necessary.
- Secure the fireplace to the framing by driving nails or screws through the nailing tabs.

# Step 5. The Gas Control System



# WARNING: THIS UNIT IS NOT FOR USE WITH SOLID FUEL.

#### Intermittent Pilot Ignition (IPI) System

The gas control system used with this model is *Intermittent Pilot Ignition (IPI)*. This system includes a 3V control valve, electronic module, and intermittent pilot.



#### WARNING: CONTINUOUS 110-120 VAC SERVICE MUST BE WIRED DIRECTLY TO THE FIREPLACE JUNCTION BOX.



# Step 6. The Gas Supply Line

NOTE: Have the gas supply line installed in accordance with local building codes by a qualified installer approved and/or licensed as required by the locality. (In the Commonwealth of Massachusetts installation must be performed by a licensed plumber or gas fitter).

NOTE: Before the first firing of the fireplace, the gas supply line should be purged of any trapped air.

NOTE: Consult local building codes to properly size the gas supply line leading to the 1/2 inch (13 mm) hook-up at the unit.

This gas fireplace is designed to accept a 1/2 inch (13 mm) gas supply line.

To install the gas supply line:

- A listed (and Commonwealth of Massachusetts approved) 1/2 inch (13mm) tee-handle manual shut-off valve and a listed flexible gas connector are connected to the 1/2 inch (13mm) inlet of the control valve. NOTE: If substituting for these components, please consult local codes for compliance.
- Locate the gas line access hole in the outer casing of the fireplace.
- Insert the gas supply line through the gas line hole, and connect it to the shut-off valve.
- When attaching the pipe, support the control so that the lines are not bent or torn.
- After the gas line installation is complete, all connections must be tightened and checked for leaks with a commercially-available, non-corrosive leak check solution. Be sure to rinse off all leak check solution following testing.



WARNING: DO NOT USE AN OPEN FLAME TO CHECK FOR GAS LEAKS.

- At the gas line access hole, use insulation to re-pack the space around the gas pipe.
- Insert insulation from the outside of the fireplace and pack the insulation tightly to totally seal between the pipe and the outer casing.



### Step 7. Gas Pressure Requirements

Pressure requirements for these Hearth & Home Technologies gas fireplaces are shown in the table below.

Pressure	Natural Gas	Propane	
Minimum	5.0 in. w.c. (Olympus)	11.0 inches	
Inlet Pressure	7.0 in. w.c. (Titan)	w.c.	
Maximum Inlet	14.0 inches	14.0 inches	
Gas Pressure	w.c.	w.c.	
Manifold	3.5 inches	10.0 inches	
Pressure	w.c.	w.c.	

Connections are provided on the front of the gas control valve for both inlet and manifold pressures. To use these the valve cover must be removed and the small slotted screw inside the pressure tap loosened. Manifold pressure should be checked with main burner turned on and rear log off. *This screw must be retightened carefully after pressure gauge is removed to avoid a gas leak.* 

The fireplace and its individual shut-off valve must be disconnected from the gas supply piping system during any pressure testing of the system at test pressures in excess of one-half (1/2) psig (3.5 kPa).

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



# Step 8. Wiring the Fireplace

NOTE: Electrical wiring must be installed by a licensed electrician.

CAUTION: DISCONNECT REMOTE CONTROLS BY UN-PLUGGING FROM THE JUNCTION BOX IF ABSENT FOR EXTENDED TIME PERIODS. THIS WILL PREVENT AC-CIDENTAL FIREPLACE OPERATION.

### For Intermittent Pilot Ignition (IPI) Wiring

#### **Appliance Requirements**

This appliance requires that 110-120 VAC be wired to the factory installed junction box. Maintain correct polarity when wiring the junction box.



#### Intensifire Switch (Olympus Only)

This model is equipped with an intensifire switch. This switch allows you to turn On/Off the rear log burners. The switch is located on the control panel. Install the 9 volt battery into the battery holder located in the lower compartment right next to the control panel (see Figure 25).

Remove transformer from shipping position by cutting and removing cable tie.

Plug transformer into side of junction box.

#### **Optional Accessories**

Optional fan and remote control kits require that 110-120 VAC be wired to the factory installed junction box before the fireplace is permanently installed. Note: Use of the GFK-160A fan kit requires either the WSK-MLT wall switch kit, or the RCT-MLT-HNG (Olympus)/RCT-MLT-HTL (Titan) remote control kit. The GFK-160A plugs into the remote control module. The remote control module then plugs into REM on the junction box.

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



# Step 9. Finishing

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Figure 26 shows the minimum vertical and corresponding maximum horizontal dimensions of fireplace mantels or other combustible projections above the top front edge of the fireplace. See Figures 3 and 4 for other fireplace clearances.

Only non-combustible materials may be used to cover the black fireplace front.



WARNING: WHEN FINISHING THE FIREPLACE, NEVER OBSTRUCT OR MODIFY THE AIR INLET/ OUTLET GRILLES IN ANY MANNER.

CAUTION: IF JOINTS BETWEEN THE FINISHED WALLS AND THE FIREPLACE SURROUND (TOP AND SIDES) ARE SEALED, A 300° F. MINIMUM SEALANT MATE-RIAL MUST BE USED. THESE JOINTS ARE NOT RE-QUIRED TO BE SEALED. ONLY NON-COMBUSTIBLE MATERIAL (USING 300° F. MINIMUM ADHESIVE, IF NEEDED) CAN BE APPLIED AS FACING TO THE FIRE-PLACE SURROUND. SEE THE DIAGRAM BELOW.



#### **Hearth Extensions**

A hearth extension may be desirable for aesthetic reasons. However, ANSI or CAN/CGA testing standards **do not** require hearth extensions for gas fireplace appliances.

#### Step 10. Installing Trim, Refractory, Logs and Ember Material

#### Installing the Trim

Combustible materials may be brought up to the specified clearances on the side and top front edges of the fireplace, but **MUST NEVER** overlap onto the front face. The joints between the finished wall and the fireplace top and sides can only be sealed with a 300° F. (149° C) minimum sealant.



Install optional marble and brass trim surround kits as desired. Marble, brass, brick, tile, or other non-combustible materials can be used to cover up the gap between the sheet rock and the fireplace.

When overlapping on both sides, leave enough space so decorative door is accessible.

#### **Positioning the Refractory**

The refractory has been packaged separately, refer to the instructions included.

#### **Positioning the Logs**

The logs have been packaged separately, refer to the instructions included. Save the log instructions with this manual.

If sooting occurs, the logs might need to be repositioned slightly to avoid excessive flame impingement.

#### **Placing the Ember Material**

Ember material is shipped with this gas fireplace. To place the ember material:

- Place dime size pieces of ember material about 1/2 inch apart near port holes in burner top. Do NOT press embers into burner ports. Care should be taken so that the ports are not covered.
- Save the remaining ember materials for use during fireplace servicing.
- Use of ember material is optional.



Figure 28. Glass Assembly

 Glass can now be reinstalled, followed by glass clips and I-bolts (see Figure 28). I-bolts can be fastened by using a special hook tool that is shipped with the fireplace. Finish the installation by installing decorative door.

**Note:** When removing or replacing the glass, use the special hook tool provided with the fireplace to turn the I-bolts to a 45° angle for ease of operation. The I-bolts can then be moved through the slots in the glass frame with the special hook tool provided. Make sure the I-bolts end up in the orientation shown in Figure 28 when installation is complete.

#### **Glass Specifications**

#### OLYMPUS and TITAN TEMPERED GLASS

Hearth and Home Technologies fireplaces manufactured with tempered glass may be installed in hazardous locations such as bathtub enclosures as defined by the CPSC. The tempered glass has been tested and certified to the requirements of ANSI Z97.1-1984 and CPSC 16 CFR 1202. (Safety Glazing Certification Council SGCC # 1595 and 1597. Architectural Testing, Inc. Reports 02-31919.01 and 02-31917.01.)

This statement is in compliance with CPSC 16 CFR Section 1201.5 "Certification and labeling requirements" which refers to 15 USC 2063 stating "...Such certificate shall accompany the product or shall otherwise be furnished to any distributor or retailer to whom the product is delivered."

Some local building codes require the use of tempered glass with permanent marking in such locations. Glass meeting this requirement is available from the factory. Please contact your dealer or distributor to order.

# Step 11. Before Lighting the Fireplace

**BEFORE** lighting the fireplace, be sure to do the following:

- Remove all paperwork from underneath the fireplace.
- **Review** all cautions, and Safety and Warnings section at the beginning of this Installers Guide.
- **Double-check** the unit for possible gas leaks.
- **Double-check** the unit for possible obstructions that could be blocking the vent terminations.
- **Double-check** for faulty components: Any component that is found to be faulty **MUST BE** replaced with an approved component. Tampering with the fireplace components is **DANGEROUS** and voids all warranties.

A small amount of air will be in the gas supply lines. When first lighting the fireplace, it will take a few minutes for the lines to purge themselves of this air. Once the purging is complete, the fireplace will light and will operate normally.

Subsequent lightings of the fireplace will not require this purging of air from the gas supply lines, **unless the gas valve has been turned to the OFF position**, in which case the air could have to be purged again.

**NOTE:** The fireplace should be run 3 to 4 hours on the initial start-up. Turn it off and let it cool completely. Remove and clean the glass. Replace the glass and run the fireplace for an additional 8 hours. This will help to cure the products used in the paint and logs.

During this break-in period it is recommended that some windows in the house be opened for air circulation. This will help avoid setting off smoke detectors, and help eliminate any odors associated with the fireplace's initial burning.

# Step 12. Lighting the Fireplace

glass and flames may be blue. After a few minutes this moisture will disappear and within 15-30 minutes the flames

should become yellow.

After reviewing all safety warnings, checking the fireplace for gas leaks, checking that the vent system is unobstructed, and checking for faulty components, be sure power is on and proceed with lighting fireplace.



#### After the Installation

LEAVE THIS INSTALLATION MANUAL WITH THE APPLIANCE FOR FUTURE REFERENCE.

the operation or longevity of your fireplace.



#### **Fireplace Maintenance**

Although the frequency of your fireplace servicing and maintenance will depend on use and the type of installation, you should have a qualified service technician perform an appliance check-up at the beginning of each heating season. See the table below for specific guidelines regarding each fireplace maintenance task.

# IMPORTANT: TURN OFF THE GAS BEFORE SERVICING YOUR FIREPLACE.

#### Replacing old ember material

**Frequency:** Once annually, during the checkup. **By:** Qualified service technician.

**Task:** Brush away loose ember material near the burner. Replace old ember material with new dime-size and shape pieces of Golden Ember (DE-93) and Glowing Ember (050-721). Save the remaining ember material and repeat this procedure at your next servicing. For more information, see **Placing Ember Material**.

#### **Cleaning Burner and Controls**

Frequency: Once annually.

By: Qualified service technician.

**Task:** Brush or vacuum the control compartment, fireplace logs and burner areas surrounding the logs.

#### Cleaning Flame Sensor Rod (IPI Systems)

Frequency: Annually.

By: Qualified service technician.

**Task:** Make a visual check of the straight flame sensor rod (see Figure 22). Use emery cloth to carefully remove any existing film or white deposits.



#### Checking Flame Patterns, Flame Height

Frequency: Periodically.

By: Qualified service technician/Home owner.

**Task:** Make a visual check of your fireplace's flame patterns. Make sure the flames are steady - not lifting or floating. See Figure 29. The flame sensor tips should be covered with flame. See Figure 22.

#### Checking Vent System

**Frequency:** Before initial use and at least annually thereafter, more frequently if possible.

By: Qualified service technician/Home owner.

**Task:** Inspect the external vent cap on a regular basis to ensure that no debris is interfering with the flow of air. Inspect entire vent system for proper function.

#### Cleaning Glass Door

**Frequency:** After the first 3 to 4 hours of use. As necessary after initial cleaning.

By: Home owner.

Task: Remove and clean glass after the first 3 to 4 hours of use. After the initial cleaning, clean as necessary, particularly after adding new ember (flame colorant) material. Film deposits on the inside of the glass door should be cleaned off using a household glass cleaner. NOTE: DO NOT handle or attempt to clean the door when it is hot and DO NOT use abrasive cleaners.

#### Recommended Bulbs

**Frequency:** Periodically. Sylvania mini Candelabra 75W Halogen bulbs are recommended for use in the appliance.

By: Home owner

Task: To replace light bulb

- 1. Turn off fireplace and electric embers and allow to cool (min. 6 hrs.).
- **2.** Remove the screws holding the panel in place and pull out bulb housing.
- **3.** Replace bulb. See installation instructions on bulb packaging for details on changing the halogen bulb.
- **4.** Replace bulb housing making sure to not touch the bulb or have the bulb touch the firebox.
- 5. Tighten the screws to anchor the panel in place.



With proper installation, operation, and maintenance your gas fireplace will provide years of trouble-free service. If you do experience a problem, this troubleshooting guide will assist a qualified service person in the diagnosis of a problem and the corrective action to be taken. This troubleshooting guide can only be used by a qualified service technician.

Symptom	Possible Cause	Corrective Action
1. Nothing happens when ON/OFF switch	a. Low voltage/or bad lead wires.	Check voltage on AC terminals of module: should read 2.8 to 3.2 VAC. Check and/or replace batteries. Confirm wire connections are secure.
is turned on (pilot does not spark).	b. Faulty pilot device.	Gap between electrode and pilot hood should be approx. 3/16". Check pilot for damage (cracked insulator on spark electrode, etc.).
	c. Faulty igniter wire.	Check wire for cracked casing, cuts, shorts, etc.
2. The main burner	a. Loose sensor or spark wire.	Ensure spark and sensor wires are connected.
does not light and the igniter is sparking.	b. No fuel supply.	Ensure that gas shut off is turned on. Ensure the fuel supply is properly connected.
	c. Air in gas line.	Purge gas line of air.
	d. Loose orange wire to valve.	Connect wire to orange terminal on valve.
	e. Black controller wire not connected to ground.	Connect black wire to ground.
	f. Flame sensor not in pilot flame.	Determine cause of improper flame on the sensor, replace if necessary.
	g. Loose green wire to valve.	Connect green wire to valve.
	h. Low voltage.	Test voltage at battery terminals (red and black wires). If it is not at least 2.7 VAC, find source of low voltage problem (replace batteries or 3V adapter).
	i. Faulty module or valve.	Check all wire connections including the ground wire. If OK then remove green wire from valve with the pilot lit. Connect a wire from red battery connection (red wire) to green terminal of valve. If valve opens and burner lights, replace the module. If it does not, replace the valve.
3. Pilot stays lit	a. Loose connection on green wire.	Check connection of green wire to green terminal on valve.
ON/OFF is turned	b. Faulty valve.	Disconnect orange wire on valve. If the pilot remains lit replace faulty valve.
off).	c. Faulty module.	Disconnect orange wire on valve. If the pilot turns off then check all connections and continuity - if no fault is found in wiring then replace faulty module.
4. The main burner	a. No fuel supply	Check fuel supply and connections to LP tank.
operation.	b. Loose wire connection on module or valve.	Check wire connections.
	c. High temperature limit switch where applicable.	Replace high temperature limit switch.
	d. Flame does not engulf flame sensor	Check location of sensor.
	e. Glass too loose and air tight gasket leaks in corners after usage.	Remove glass, inspect corners and tighten gasket if applicable.
	f. Inner vent pipe leaking exhaust gases back into the system.	Check for leaks.
	g. Improper vent cap installation.	Check for proper installation and freedom from debris or blockage.
5. The glass soots.	a. Improper venturi setting.	Adjust the air shutter at the base of the burner.
	b. Too much flame impingement on the log	Check for proper log placement.
6. The flame burns blue and lifts off the burner.	a. Insufficient oxygen being supplied.	Ensure that the vent cap is installed properly and free of debris. Ensure that the inner vent pipe has no leaks in it. Ensure that the glass is tightened properly on the unit, particularly on top corners.