



Installation, Operation, & Safety Handbook



Obadiah's Woodstoves
1660 Whalebone Dr.
Kalispell Mt, 59901
1.800.968.8604
www.woodstoves.net

MODEL 1600



Safety Notice: *If this wood stove is not properly installed, a house fire may result. For your safety, please follow the*

NOTICE

Gold plated surface must be cleaned with glass cleaner and a soft rag before firing the first time, or fingerprints will remain.

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Obadiah's • 406-300-1776

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SECTION 1: GENERAL SAFETY INFORMATION

Proper installation of any wood burning stove is necessary for the safety and effectiveness of its operation. Check with your dealer regarding arrangements for installing your free standing model. Installation must meet strict specifications of the National Fire Protection Association and all local fire and building codes.

For additional information on using your heater (wood stove) safely, send for Using Coal and Wood Stoves Safely, NFPA No. 81974, from the National Protective Association, 470 Atlantic Avenue, Boston, MA 02210.

High Valley Stoves are tested by Arnold Green Testing Laboratories, 2 Millbury Street, Auburn, MA 01501.

SAFETY PRECAUTIONS

1. **ASH DISPOSAL:** Ashes should be placed in a metal container with a tight-fitting lid. The closed container of ashes should be placed on a non-combustible floor or on the ground, well away from all combustible materials, pending final disposal. If the ashes are disposed of by burial in soil or otherwise locally dispersed, they should be retained in the closed container until all cinders have thoroughly cooled.
2. **LIQUID FUELS:** Never use gasoline type lantern fuel, kerosene, charcoal lighter fluid, or similar liquids to start or "freshen up" a fire in this stove. Keep all such liquids well away from the stove at all times.
3. **CREOSOTE FORMATION & REMOVAL:** When wood is burned slowly, it produces tar and other organic vapors which combine with expelled moisture to form creosote. The creosote vapors condense in the relatively cool chimney flue of a slow burning fire. As a result, creosote accumulates on the flue lining. When ignited, this creosote makes an extremely hot fire.
4. **PRE-FABRICATED CHIMNEY:** Class A masonry or all fuel prefabricated chimneys must be listed as approved by Underwriters Laboratories (UL) or you may use "Metalvent" and "Metalbestos" for use as your chimney.
5. **INSPECTION CODES:** The installation of the stove must comply with state and local requirements and be inspected by the state or local building inspector, if required.
6. **LOCATION:** This stove is approved for use in mobile homes (please read mobile home installation section in this manual). Do not locate a wood burning stove in a bedroom or sleeping area. The stove should be placed centrally in relationship to the area to be heated. High traffic areas should be avoided, and the stove should be located in a relatively draft-free area. A 14" clearance to any furnishings must be maintained.
7. Inspect chimney connector and chimney twice monthly, and clean if necessary.
8. Keep stove away from combustibles. Follow suggested distances.
9. Install smoke pipe segments with crimped end down, This permits creosote to drip back into the stove and be burned away.
10. The use of aluminum type "B" gas vent is unsafe and prohibited by the National Fire Prevention Association Code.
11. The area through which the chimney pipe will travel should be inspected. If the installation requires cutting a hole in the ceiling, check the attic for wires, ducts, etc, that may interfere.
12. It is vitally important that single wall pipe is never closer than three times the diameter of the pipe from a combustible surface. Never use single wall pipe through a combustible surface.

13. Use only an insulated, all fuel chimney to vent the hot gases out of the house. It will reduce the amount of creosote buildup and improve the draft needed to vent hot gases from the stove.
14. Use a 6" diameter insulated thimble, or a 6" diameter insulated all-fuel chimney section when passing through a combustible wall or ceiling.
15. Do not use more than one elbow in the stove pipe.
16. Any horizontal pipe should be pitched upward toward the chimney at least 1/4" for each horizontal foot.
17. Ensure that the ventilating pipe does not extend so far into chimney flue that it blocks air flow.
18. Particular attention should be paid to the point where the flue passes through a wall or ceiling. This penetration should always be made with insulated pipe and the proper accessories.
19. The longer the pipe and the greater amount of elbows, the greater the chance of dangerous creosote and ash buildup. Modern stoves are engineered to achieve maximum heat dispersal without lengthy vents eliminating a potentially hazardous situation.
20. Use heavy gauge stove pipe: at least 18 gauge with 6" diameter.
21. Each stove pipe connection should be joined and secured with sheet metal screws to avoid possible separation during use.
22. The top of the flue must be at least 3' higher than the roof at the point of exit. In pitched roofs, the top of the stovepipe must be at least two feet to the highest point of the roof and at least ten feet away.

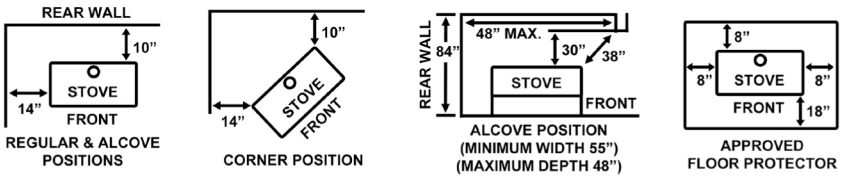
 **CAUTION:** Do not operate the stove in such an extreme manner that any portion of the stove becomes "red hot".

 **SAFETY NOTICE:** If this wood stove is not properly installed, a house fire may result. For your safety, follow all installation directives, cautions, and safety notices. Contact local building officials about restrictions and installation inspection in your area.

SECTION 2: INSTALLATIONS

STOVE INSTALLATION

INSTALL WITH MINIMUM CLEARANCES TO WALL AS SHOWN (IN INCHES)



CONTACT YOUR LOCAL BUILDING OR FIRE OFFICIALS ABOUT RESTRICTIONS AND INSTALLATION INSPECTION IN YOUR AREA

FIGURE 1.

LEG INSTALLATION

1. Start 3/8" bolts and washer (provided) into taped holes on bottom of unit.
2. Using 8" blocks, shim front of stove and attach front legs. Tighten bolts securely.
3. Shim rear of unit and attach two rear legs, being sure to tighten bolts securely.
4. Once all four legs are attached, remove shims. Be careful not to tilt the stove on two legs or breakage may occur.
5. If the unit is installed in a mobile home, see mobile home installation instructions.

STOVE PIPE INSTALLATION

1. Minimum clearance to combustibles must be maintained as shown in figure 1.
2. Combustible wall and ceiling materials includes wood, cloth, vinyl, paper, etc. Wood covered with plastic is also considered combustible. The 10" clearance for the stove also applies for plain stovepipe used in constructing the chimney pipe. Clearance is applicable to the parallel wall or the ceiling either when the wall is unprotected or when 3/8" asbestos millboard is affixed to the wall without spacing.
3. Select a spot for the stove. Inspect the area that the stovepipe will be running through to connect with the existing chimney. Use an insulated connector if a combustible wall is between the chimney and stove.
4. If the area the pipe runs through looks acceptable, move the stove into position. Be sure the stove has proper clearance from combustible areas.
5. If a new chimney is being installed, follow the instructions of the chimney pipe manufacturer or have it installed by a certified chimney installer.
6. Install the chimney connector. If it is passing through combustible walls, it must be insulated, such as triplewall pipe. Also, if it is possible to maintain 10" between your smoke pipe and a combustible wall, use an insulated chimney pipe. Consult your local building code and regulations.
7. After the pipe connector is in place, run the stovepipe with the crimped edge down from the chimney connector to the stove. The crimped edges must be down so creosote accumulating on the walls of the stovepipe can run back into the stove and not out the joints of the pipe.
8. Check the installation to determine the pipe is connected properly using three sheet metal screws per joint; that the proper distances have been maintained from combustible surfaces with the stove and the stovepipe; and the chimney is in good repair and is installed properly.

MOBILE HOME INSTALLATION - OPTIONAL AIR KIT REQUIRED

- 1. Before mounting legs onto unit, remove the four leveling bolts on bottom of legs.
- 2. Mount four legs onto unit.
- 3. Position the stove onto the floor protector in its final location, making sure all minimum clearances are met. Mark the location of the four legs on the floor. Remove the stove and drill a 5/16" hole through the floor of the home in the four locations.
- 4. Reposition the stove and insert a 5/16" bolt (not supplied) through the hole in the bottom of each leg and fasten to the floor.
- 5. The stove should be grounded to the chassis with a #8 AGW copper wire or equivalent.
- 6. Place the outside air kit on the rear of the unit with the elbow turned toward the bottom of the unit and fasten with 2 tec screws supplied. Connect a 4" flex pipe (not supplied) to the outside air kit, place a screen on the other end and insert through the wall of the home.
- 7. On the front of the stove located under the hearth, notice a 5" X 1 5/8" opening. Place the 6" X 2" plate (provided with the outside kit) over this opening and attach.

FIREBRICK & FIREBLANKET INSTALLATION

The 1600 is shipped with both the firebrick and fireblanket already installed. In the event the firebrick or fireblanket need to be reinstalled you should follow the diagram below. After installing the firebrick in the upper shelf then insert the fireblanket above that.

- Bricks #1 - 16: 1" thick x 4 1/2" x 9"
- Bricks #17 & 18: 1" thick x 2 1/2" x 9"
- Bricks #19 - 32: 1" thick x 4 1/2" x 9"

FIGURE 2.

Upper shelf of Model 1600

26	28	29
25		30
24	27	31
23		32

Floor and side walls of Model 1600

	5	6	vertical air tubes	7	8	
4	14	15	18	19	21	9
3						10
2	13	16	17	20	22	11
1						12

SECTION 2: INSTALLATIONS (CONT.)

OPTIONAL BLOWER INSTALLATION

1. Remove blower from box.
2. Place blower on rear of unit in rectangle opening. Align slots on either side of unit with holes on rear of unit.
3. Bolt blower onto unit with 2 3/8" bolts provided.
4. Place rheostat box which is connected to blower with two jumper wires toward top of unit at your convenience and attach to unit with 2 tec screws provided.
5. Wiring: The blower assembly is shipped pre-wired, so no wiring is necessary. However, if the wires become disconnected for any reason, simply connect the male and female connectors on the rheostat to the male and female connectors on the blower.

REPLACEMENT GLASS INSTALLATION

1. Glass can be installed in the door with the door mounted on the stove.
2. Remove bracket bolts from the door and remove all pieces of broken glass if any.
3. Remove backing from the gasket. Center gasket on edge of replacement glass. Firmly press gasket onto glass edge of all sides. Cut excess gasket.
4. Place glass in opening.
5. Position brackets in place, insert bolts and tighten carefully using a 1/8" allen wrench.

 **CAUTION:** Glass should be snug but not excessively tight.

SECTION 3: USE AND CARE OF GLASS

Although glass has excellent heat resistance and strength characteristics, it can crack through improper use. To achieve maximum utility and safety of glass in a wood burning stove, we advise the following:

1. Inspect the glass regularly. If you detect a crack or break, extinguish the fire immediately and replace the glass.
2. Do not slam the door or otherwise impact the glass. When closing the door, logs or other objects should not protrude or impact the glass.
3. Do not clean the glass with materials which may scratch or damage the glass. Scratches on the glass can develop into cracks or breaks. Oven cleaner may be used, but do not get any on the paint as it will remove paint.
4. Never put substances which can ignite explosively in the stove since even small explosions in confined areas can blow out the glass.

SECTION 4: OPERATING INSTRUCTIONS

1. Pull the damper slide all the way open. (*slide is on lower right side of the unit*)
2. Roll up pieces of newspaper and place in the firebox.
3. Place kindling on top of paper and light paper. After fire is burning, place larger pieces of wood on the fire.

4. This stove is designed to burn dry, seasoned hardwood.
5. Avoid coming in contact with the firebrick or air tubes when loading wood into the unit.
6. Once the fire is burning, you can control the fire by using the control on the right hand side of the unit. Pull to open and push to close.
7. Due to the nature of a non-catalytic stove, there may be smoke spillage into the room from the combustion air chamber when starting the stove. After the stove has been burning for a time, this will cease.

⚠ CAUTION: When opening the door make sure the draft control is fully open (*pull to open*) to avoid smoke spillage into the room.

SECTION 5: SPECIFICATIONS

Firebox Size: 2.71

Max. wood size: 22"

EPA Emissions: 2.73 grams per hour

EPA BTU Range: 11,796 - 40,431

Max. BTU Output: 63,535

Burn time with hardwood: 15 hrs.

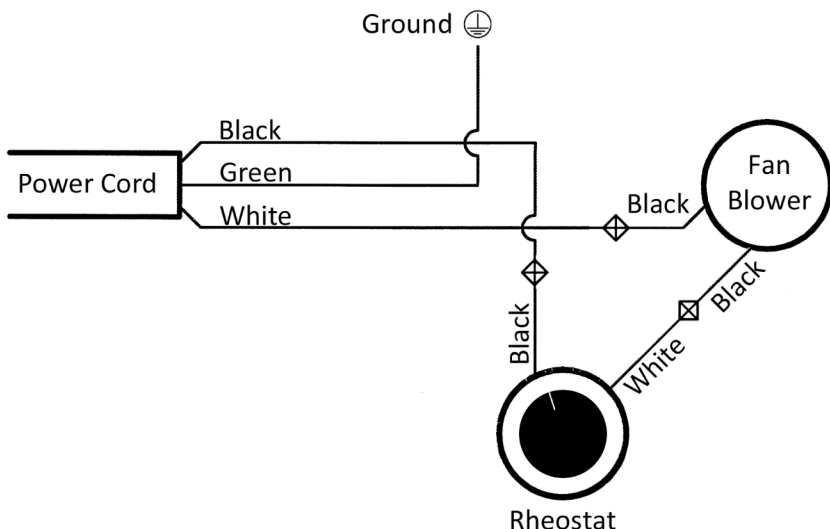
Clearances with Single Wall Pipe:

Rear: 10" Side: 14" Corner: 14"

Floor Protector: 42 5/8" wide X 54 1/2" deep

Weight: 514 lbs.

SECTION 6: WIRING DIAGRAM



PRODUCTS GUARANTEED

This limited warranty covers all stoves manufactured by Stoll Fireplace Inc. and carrying the High Valley Stoves brand.

*The warranty will be void if coal is burned in any High Valley wood burning stove.

GENERAL WARRANTY PROVISIONS

High Valley Stoves, warrants the model 2500 and 1500 against defects in material and workmanship for 5 years as long as it is owned by the original purchaser, provided that **(1)** stove is installed by an authorized installer: **(2)** stove has not been repaired by an unauthorized person in any way, so as, in our judgment as manufacturer, performance or reliability is reduced: **(3)** stove has not been subject to unauthorized modification: **(4)** the right to repair or replace the stove is at the option and considered judgment of the manufacturer: **(5)** obligation under this warranty does not include or extend to paint on surface of stove, glass door, nor decor kit an optional attachment.

SPECIFIC WARRANTY PROVISIONS & TIME PERIODS**Period 1: Up to 30 days after purchase.**

Stove should be used within 30 days by having a fire started, the blower and heat generated in the owner's home.

Period 2: Up to 90 days after purchase.

All electrical parts are warranted for 90 days from the date of purchase.

Period 3: Up to 5 years from date of purchase.

High Valley Stoves will replace or repair, at its option, any part defective in material or workmanship with the exception of electrical components (blower, thermostat, rheostat, etc ...), damper, damper handles and rod, fireclay castable lining, and all parts not permanently attached to the heating unit. Parts not permanently attached to the heating unit are defined as any part removable with common hand tools. The cost of parts only are included. The customer pays any labor or transportation charges required (owner is responsible for any costs involved with stove or part removal and reinstallation.)

PROCEDURE TO OBTAIN WARRANTY REPAIR

Should you feel that your stove is defective, you should contact your stove dealer for assistance and for the correct procedures to resolve the problem. If for any reason you are dissatisfied with the suggested procedure, you may contact us in writing.

CONDITIONS & EXCLUSIONS

- There is no other express warranty. All implied warranties or merchantability and fitness are limited to the duration of the express warranty.
- High Valley Stoves is not liable for indirect, incidental, or consequential damages in connection with the use of the product including any cost or expense of providing substitute equipment or service during periods of malfunction or non-use. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.
- Warranty repairs for reimbursement must be performed by an authorized High Valley Dealer, manufacturer's representative, or by customer as directed by dealer or the manufacturer.
- Dealers will receive special instructions regarding minor repairs.
- Warranty void if serial plate has been removed or defaced.
- Warranty gives you specific legal rights and you may also have other rights which vary from state to state.

OWNER REGISTRATION CARD

NAME: _____

ADDRESS: _____

CITY: _____ STATE: _____ ZIP: _____

PHONE: _____ EMAIL: _____

STOVE WAS PURCHASED AT: _____

SELLING PRICE LESS TAX: _____

DATE PURCHASED: _____

DATE INSTALLED: _____

MODEL PURCHASED: 1600

WOOD STOVE SERIAL NUMBER: _____ *(found on rear of unit)*

Remove page from book then fold in half and tape.

From:

Place
Stamp
Here

Obadiah's Woodstoves
1660 Whalebone Dr.
Kalispell Mt, 59901