

The Grand Cook Stove Owners Manual

Please read this entire manual before you install your new Grand Cook Stove.

Prevent House Fires: Install and USE ONLY in accordance with the owner's manual provided with this appliance. Contact local building or fire officials about restrictions and installation inspections in your area.

****CAUTION****

- Hot while in operation. Keep children, clothing, and furniture away. May cause skin burns.
- DO NOT use chemicals or fluids to start the fire.
- DO NOT burn garbage or flammable liquids.
- Keep flammable liquids away from stove when in use.
- DO NOT connect to any air distribution duct or system.
- This stove is designed to burn wood only. DO NOT burn coal, pellets or any other type of fuel.
- DO NOT REDUCE THE STOVE PIPE FROM THE STOVE TO THE CHIMNEY.
- Ash removal access panel must remain closed when the stove is in operation.

CLEARANCE TO COMBUSTIBLES

Appliance Clearances	Unprotected Surfaces		
	Parallel		Corner
	Side	Rear	
	12 in	18 in	11 in

* Clearances can be reduced with shielding acceptable to the local authority

Chimney Connector	Unprotected Surfaces
	18 in

*Place on a non-combustible floor protection which extends 16 inches to the front and 8 inches beyond each side of the fuel loading and ash removing opening(s), and 2 inches beyond each side of the chimney connector.

STARTING YOUR FIRST FIRE

Open the direct smoke outlet all the way by moving the handle in the back all the way down. This will allow smoke and gases to travel directly into the chimney. This will increase the draft to the firebox and reduce the tendency to smoke while the chimney is still cold.

Open the draft control on the door all the way.

Place crumpled paper and kindling into the firebox just inside the door and light with a match. As soon as the fire is burning well, close the direct smoke outlet by pushing the handle in the back all the way up. DO NOT OVERHEAT YOUR STOVE. If fire becomes too hot, reduce the draft accordingly. Always keep the direct smoke outlet OPEN when checking the fire and close immediately when you close the door.

INSTRUCTIONS

Assembly and Installation

- 1) Remove the stove from shipping crate (if crated). Remove all wooden or paper packaging material, being careful not to pry against the sides of the stove as scratching or chipping may result.
- 2) Inspect the stove for possible damage and notify your freight carrier immediately if any damage has occurred.
- 3) Remove all loose parts from the firebox and oven.
- 4) The firebrick, doors and lids can be removed to make the stove lighter for moving.
- 5) Move your Grand Cook Stove to the desired location.
- 6) Installation must comply with all local and national building codes. The proper authorities (i.e. the municipal building department, fire department or fire prevention bureau) should be consulted before installation to determine the need to obtain a permit. If the stove is not properly installed, a house fire may result. To reduce the risk of fire, follow the installation instructions. Failure to follow instructions may result in property damage, bodily injury or even death.
- 7) Use 24 MSG black or blue chimney connector or listed double wall connector. Attach to chimney connector and at each joint with a minimum of three (3) screws.
- 8) Refer to local codes and the chimney manufacturer's instructions for precautions required for passing a chimney through a combustible wall or ceiling.
- 9) Do not connect this unit to a chimney serving another appliance.
- 10) Use a residential type masonry or listed type HT (high temperature 2,100 degrees F) factory built chimney.
- 11) Do not obstruct the space beneath the stove.
- 12) Be sure to understand your new stove instructions by reading them several times.

OPERATION REQUIREMENTS

- For use with solid wood or coal fuel only
- Do not over-fire. If the stove or chimney connector glows, you are over-firing.
- Inspect and clean chimney frequently.
Under certain conditions of use, creosote build-up may occur rapidly.
- To avoid the risk of smoke and flame spillage, operate only with fuel door, ash door and cook plates fully CLOSED.
- To avoid the risk of burns, always use a potholder or heat resistant gloves (barbecue gloves) when opening firebox door, oven, or making damper adjustments.

CREOSOTE AND NEED FOR 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 residues accumulate on the flue liner. When ignited, this creosote makes an extremely hot fire. The chimney connector and chimney should be inspected at least every 2 months during the heating season to determine if a creosote buildup has occurred. If creosote has accumulated, it should be removed to reduce the risk of a chimney fire.

ASHES

After using the stove, ashes should be placed in a metal container with a tight fitting lid. The closed container should be placed on a non-combustible floor or on the ground, well away from all combustible materials, pending final disposal. The ashes are to remain in the container until all cinders have thoroughly cooled before final disposal.

USING THE OVEN

To heat the oven, be sure that the little handle on the top of the stove is pulled all the way up. This will direct the heat around the oven. Open the drafts all the way until you have a hot fire then shut it down some, even if the temperature is not up to where you want it. It will keep going up even after it is shut down some. The oven comes with an adjustable, nickel-plated rack.

Installation

One of the main necessary precautions when installing a wood stove is to leave sufficient space between the stove (top, sides, back, front, and under stove pipes) and any other material that can catch fire. If the stove is to be installed on a combustible floor, it must be placed on an approved 1" (25mm) non-combustible hearth pad with $k = 0.84 \text{ BTU/in ft}^2 \text{ hr } ^\circ\text{F}$. In the USA, the floor protector must extend 8" beyond each side of the flue-loading door and 16" to the front. In Canada, the floor protector must extend 8" (200mm) beyond each side and the back of the appliance and 18" (450mm) to the front.

Installation Clearances

It is extremely important that you respect required installation distances and that you respect local installation regulations. This is for your safety! The manufacturer is not responsible for the product, if it is not installed following these recommendations. These clearances may only be reduced by means approved by the regulatory authority.

A combustible surface is anything that can burn (i.e. sheet rock, wall paper, wood, fabrics etc.) These surfaces are not limited to those that are visible and also include materials that are behind non-combustible materials. If you are not sure of the combustible nature of a material, consult your local fire officials.

Single wall Connector pipe		Double wall Connector pipe
Chimney Connector to back wall	18" (458 mm)	10.5" (267 mm)
Chimney Connector to sidewall	21" (534 mm)	18" (457 mm)
Chimney Connector to corner wall	28" (712 mm)	15" (381 mm)
Unit to back wall	17" (432 mm)	8" (203 mm)
Unit to sidewall	12" (305 mm)	10" (254 mm)
Unit to corner wall	11" (280 mm)	6.5" (165 mm)

Chimney connection

The chimney connector is a single walled pipe used to connect the stove to the chimney. For use with the Grand Cook Stove the chimney connector **MUST** be 6" in diameter, with a minimum thickness of 24 gauge black steel or 26 gauge blued steel.

Aluminum and galvanized steel pipe is not acceptable for use with the Grand Cook Stove. These materials cannot withstand the extreme temperatures of a wood fire and can give off toxic fumes when heated.

Do not use the connector pipe as a chimney.

Each chimney connector or stovepipe section must be installed to the stove flue collar and to each other with the male (crimped) end toward the stove.

This prevents any amount of condensed or liquid creosote from running down the outside of the pipe or the stovetop. All joints, including the flue collar connection must be secured with three sheet metal screws to ensure that the sections do not separate.

For the best performance the chimney connector should be as short and direct as possible, with no more than two 90° elbows. The maximum horizontal run is 36" and a recommended total length of stovepipe should not exceed 10 feet. Always slope horizontal runs upward ¼" per foot toward the chimney. No part of the chimney connector may pass through an attic or roof space, closet or other concealed space, or through a floor ceiling. All sections of the chimney connectors must be accessible for cleaning. Where passage through a wall or partition of combustible construction is desired, the installation must conform with NFPA 211 or CAN/CSA-B365, and is also addressed in this manual.

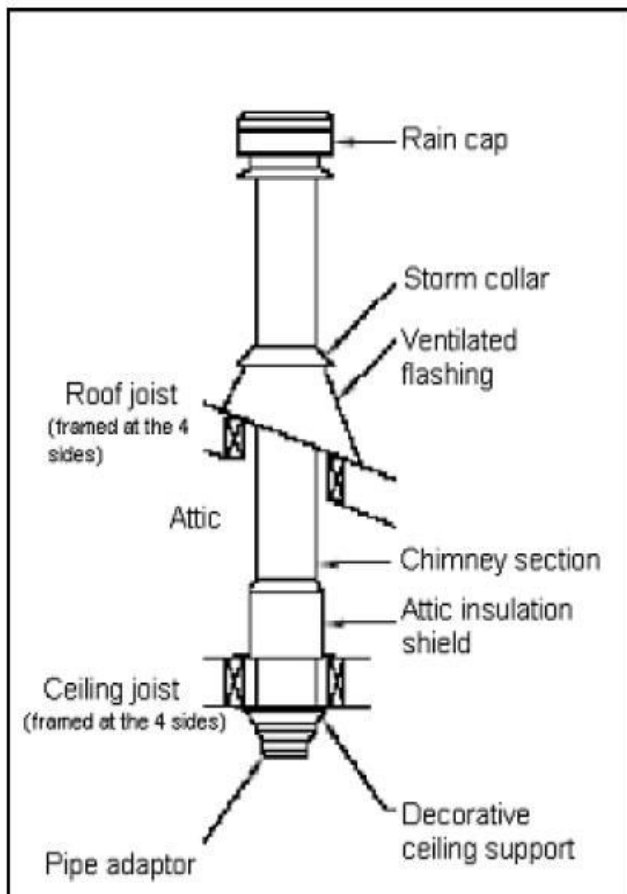
Chimney

DO NOT CONNECT THIS UNIT TO A CHIMNEY FLUE SERVING ANOTHER APPLIANCE. DO NOT CONNECT TO ANY AIR DISTRIBUTION DUCT OR SYSTEM.

This room heater must be connected to a 6" factory built UL 103 HT chimney (ULC S629, in Canada) or a code-approved masonry chimney with a flue liner.

Factory Built Chimney

When a metal prefabricated chimney is used, the manufacturer's installation instructions must be followed. You must also purchase (from the same manufacturer) and install the ceiling support package or wall pass-through and "T" section package, fire stops (where needed), insulation shield, roof flashing, chimney cap, etc. Maintain proper clearance to the structure as recommended by the manufacturer. The chimney must be the required height above the roof or other obstructions for safety and proper draft operation. See figure 8 for chimney termination requirements.



Masonry Chimney

Ensure that a masonry chimney meets the minimum standards of the National Fire Protection Association (NFPA) by having it inspected by a professional. Make sure there are no cracks, loose mortar or other signs of deterioration and blockage. Have the chimney cleaned before the stove is installed and operated.

When connecting the stove through a combustible wall to a masonry chimney, special methods are needed. Refer to Combustible Wall Chimney Connector Pass-Throughs on Figure 9.

Chimney Height

A masonry chimney or a listed factory-build chimney must be the required height above the roof and any other nearby obstructions. The chimney must be at least 3' (90 cm) higher than the highest point where it passes through the roof and at least 2' (60 cm) higher than the highest part of the roof or structure that is within 10' (305 cm) of the chimney, measured horizontally.

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